

Teal papers

Complete collection + new BarTide edition

IF / HOW / THEN logic

September 26, 2026

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

MJos Predictive Model: the first manifestation of the Bangel Language.

INSIDE THIS COLLECTION

1,691 existing indexed entries, every page from 4 recovered volumes, and 15 newly authored BarTide papers.

EDITION NOTE

BarTide collection branding has been added to every page. Original equations, diagrams, and page content are retained. A collection label does not claim that every historical research result is implemented in BarTide.

Reading guide & contents

WHAT CHANGED

This September 26 edition collects the complete recovered Pink/Teal catalog, adds BarTide branding, and supplies new workflow papers. The September 24-25 source material is retained as dated evidence; the new BarTide papers clarify later recorded application releases.

HOW TO READ THE EVIDENCE

Recorded release evidence refers to the cited checkpoint and date. Documentary contracts describe intended admission and behavior. Neither is a new production audit, a real payment test, or proof of a deployed Bangel adapter.

NEW BARTIDE PAPERS

Pages 3-17: platform, onboarding, customer entrance, nearby discovery, ordering, drivers, location, merchant payments, service billing, rewards, staff, events, media, sales, and Bangel reconciliation. Page 18: source register.

Recovered volume	Starts at PDF page
Recovered source edition	19
Later Teal rerun	520
Project reconciliation	1575
Project completeness	1603

NAVIGATION

Use PDF bookmarks for the new papers and recovered volumes. The accompanying offline index filters the full catalog by color, project, and text and opens individual paper pages with exact PDF locations.

HISTORICAL TEXT

Earlier draft labels and source-candidate statements remain inside the reproduced volumes. See the dated new BarTide papers for later recorded releases. White papers are outside this Pink/Teal collection.

Platform identity and evidence

BARTIDE-20260926-TEAL-01

DATED STATUS

The September 25 customer-entrance checkpoint records a deployed ASP.NET Core / Blazor release. The older source-candidate statements remain historical. No production Bangel adapter is established by this collection.

IF - PREREQUISITES

A request identifies its restaurant or global scope, acting identity, operation, and applicable version.

HOW - CONTROLLED PROCESS

Resolve the appropriate access boundary; check prerequisites against the named version; retain the source of each observation separately from the proposed rule.

THEN - BOUNDED RESULT

Return a scoped result with an evidence status; record the release or document revision that supports it.

HOLD / DENY BRANCHES

HOLD: Required source, version, or supporting observation is unknown. DENY: The actor lacks permission for the selected scope.

ILLUSTRATIVE CASE

A public menu read and an owner-only menu edit use different admission rules. Public visibility does not grant edit permission.

VERIFICATION TO PERFORM

Review one public read and one protected mutation, then check a cross-restaurant request and missing-evidence case.

Sources: S1, S2. Examples are illustrative; acceptance steps are proposed checks, not reported test execution.

Business onboarding and workspace ownership

BARTIDE-20260926-TEAL-02

DATED STATUS

The inherited BarTide onboarding paper describes one workspace per account and a draft creation boundary. The customer-entrance release records preservation of business authentication.

IF - PREREQUISITES

A verified business identity requests a supported workspace operation and ownership is unambiguous.

HOW - CONTROLLED PROCESS

Validate business fields, bind the owner to the workspace, and resolve repeated requests without silently replacing an existing owner.

THEN - BOUNDED RESULT

Return the existing or newly created draft workspace and the next required setup step.

HOLD / DENY BRANCHES

HOLD: Ownership conflicts or required setup details need review. DENY: An unrelated account attempts to take control of a workspace.

ILLUSTRATIVE CASE

A repeated signup returns the same owned draft instead of creating a second restaurant or publishing it automatically.

VERIFICATION TO PERFORM

Exercise first signup, repeated signup, ownership conflict, and a customer identity entering a business route.

Sources: S1, S2. Examples are illustrative; acceptance steps are proposed checks, not reported test execution.

Customer entrance and shared identity

BARTIDE-20260926-TEAL-03

DATED STATUS

The September 25 checkpoint records the customer entrance as published. Customer credentials use the existing global identity provider; secure cookies are host-only.

IF - PREREQUISITES

A customer begins an account action with a valid local return context or an authenticated customer requests their own account.

HOW - CONTROLLED PROCESS

Use the shared identity flow; retain valid restaurant and table context; enforce same-origin protections and current identity checks.

THEN - BOUNDED RESULT

Show the customer account or return to the originating restaurant. A different host may require another signin with the same credentials.

HOLD / DENY BRANCHES

HOLD: Verification or recovery requirements are unfinished. DENY: A request attempts to access another account or use an invalid return destination.

ILLUSTRATIVE CASE

A customer who signs up from a restaurant menu returns to that menu after the permitted flow; a business setup pitch is not substituted.

VERIFICATION TO PERFORM

Cover signup, verification, recovery, logout, return paths, cross-user access, and customer/business route separation.

Sources: S2. Examples are illustrative; acceptance steps are proposed checks, not reported test execution.

Nearby restaurant discovery

BARTIDE-20260926-TEAL-04

DATED STATUS

The September 25 checkpoint records /restaurants and /nearby discovery. Ranking uses unrounded straight-line distance, with optional name search. No real restaurant coordinates were guessed or enabled.

IF - PREREQUISITES

A restaurant has owner-confirmed coordinates and an enabled listing; a customer chooses location-based discovery.

HOW - CONTROLLED PROCESS

Request browser location explicitly, filter the admitted listings, and rank by straight-line distance before formatting the displayed value.

THEN - BOUNDED RESULT

Show matching restaurants with links into their existing menus.

HOLD / DENY BRANCHES

HOLD: Location permission, coordinates, or required listing information is unavailable. DENY: An unauthorized actor attempts to change a restaurant listing.

ILLUSTRATIVE CASE

Two displayed distances may round to the same number while their unrounded values still determine the order.

VERIFICATION TO PERFORM

Use synthetic coordinates for ties, missing location, disabled listings, and name filters; do not infer driving time from distance.

Sources: S3. Examples are illustrative; acceptance steps are proposed checks, not reported test execution.

Menus, quotes, orders and receipts

BARTIDE-20260926-TEAL-05

DATED STATUS

The inherited ordering contract describes server-priced totals, quote/version checks, and repeat-operation identity. The customer release records menu regression checks and pay-staff availability according to restaurant settings.

IF - PREREQUISITES

The restaurant menu, fulfillment mode, quantities, and quote are current and the selected ordering path is enabled.

HOW - CONTROLLED PROCESS

Recompute whole-cent totals from server data, check capacity and the quote fingerprint, and reconcile duplicate or conflicting operation keys.

THEN - BOUNDED RESULT

Issue one order receipt or an explicit quote/version conflict. Order creation alone does not establish payment.

HOLD / DENY BRANCHES

HOLD: Required quote or fulfillment information is incomplete. DENY: A request attempts an unavailable operation or violates the restaurant access boundary.

ILLUSTRATIVE CASE

A price changes after a customer opens the menu: the customer receives an updated quote rather than an order at an unverified total.

VERIFICATION TO PERFORM

Cover stale prices, duplicate submissions, invalid quantities, fulfillment limits, and unpaid orders without inventing successful card collection.

Sources: S1, S2. Examples are illustrative; acceptance steps are proposed checks, not reported test execution.

Driver hiring, assignment and delivery

BARTIDE-20260926-TEAL-06

DATED STATUS

The driver checkpoint records publication and preserves real driver payments as disabled. Nearby-discovery evidence states that a profile alone grants no order access; restaurant offer/acceptance and assignment restrictions apply.

IF - PREREQUISITES

An active hired driver assigned to the order, or an authorized manager, requests a permitted transition against the current version.

HOW - CONTROLLED PROCESS

Check restaurant relationship, assignment, current delivery status, operation identity, and any required manager override reason.

THEN - BOUNDED RESULT

Record one attributable transition and show only the permitted delivery information.

HOLD / DENY BRANCHES

HOLD: A hire, assignment, or required delivery detail is unresolved. DENY: An unassigned driver or ended hire attempts to access another restaurant order.

ILLUSTRATIVE CASE

Creating a driver profile does not expose delivery jobs. An accepted restaurant relationship and a valid assignment remain necessary.

VERIFICATION TO PERFORM

Exercise competing assignments, repeat acceptance, ending hires, cross-restaurant isolation, and delivery completion without marking a payout as paid.

Sources: S1, S3, S4. Examples are illustrative; acceptance steps are proposed checks, not reported test execution.

Foreground delivery location and privacy

BARTIDE-20260926-TEAL-07

DATED STATUS

The inherited location paper describes foreground-only sharing. It does not establish background tracking, promised ETA, offline replay, or physical iOS/Android field validation.

IF - PREREQUISITES

An assigned active driver consents to a current location session in an explicitly real or simulated mode.

HOW - CONTROLLED PROCESS

Bind coordinates to session, sequence, accuracy, and acquisition time; recheck assignment, consent, and freshness before displaying them.

THEN - BOUNDED RESULT

Expose only the customer's active delivery leg and stop sharing when the session becomes invalid.

HOLD / DENY BRANCHES

HOLD: Location is stale, missing, insufficiently accurate, or from an incompatible mode. DENY: A viewer requests another customer's leg or a revoked session.

ILLUSTRATIVE CASE

A last-known position loses freshness: show unavailable or stale status rather than presenting continued movement.

VERIFICATION TO PERFORM

Simulate expiry, revoked consent, reordered updates, ended assignments, and real/simulated separation; document physical-device tests separately.

Sources: S1, S4. Examples are illustrative; acceptance steps are proposed checks, not reported test execution.

Merchant payments and payment evidence

BARTIDE-20260926-TEAL-08

DATED STATUS

The customer-entrance checkpoint explicitly records production phone/card checkout as disabled. It identifies host-aware return paths as future work before enabling multi-host card checkout.

IF - PREREQUISITES

The approved payment environment, merchant account, order, amount, currency, and host context are admitted.

HOW - CONTROLLED PROCESS

Bind payment attempts to the restaurant and order; reconcile signed provider events and repeated notifications without duplicating state changes.

THEN - BOUNDED RESULT

Record the reconciled payment status only. A browser redirect or order receipt is insufficient evidence of collected funds.

HOLD / DENY BRANCHES

HOLD: Provider evidence, account readiness, return-host behavior, or activation approval is missing. DENY: A notification or attempt fails authenticity or order/account binding.

ILLUSTRATIVE CASE

A checkout return arrives before a verified provider event: the order remains pending payment until evidence is reconciled.

VERIFICATION TO PERFORM

Before activation, test signed and invalid events, duplicates, amount mismatch, two web hosts, cancellation, and stale attempts in the proper test environment.

Sources: S1, S2. Examples are illustrative; acceptance steps are proposed checks, not reported test execution.

Service billing and published price snapshots

BARTIDE-20260926-TEAL-09

DATED STATUS

The September 25 pricing checkpoint records \$1,500 build plus a required \$199 first month: \$1,699 initially, or \$1,999 with stores, then \$199 monthly. These are dated recorded prices, not a fresh checkout quote.

IF - PREREQUISITES

The buyer accepts the current terms and quote in an enabled billing environment.

HOW - CONTROLLED PROCESS

Capture the accepted price, add-ons, billing period, account, and request identity; reconcile authenticated invoice/subscription evidence.

THEN - BOUNDED RESULT

Store the actual invoice or subscription state and preserve the accepted price snapshot.

HOLD / DENY BRANCHES

HOLD: The quote changes, required terms are missing, or provider state is unresolved. DENY: A caller attempts an unauthorized billing change or inconsistent account binding.

ILLUSTRATIVE CASE

A historical subscriber keeps the applicable historical agreement; a new advertised price does not silently rewrite that subscription.

VERIFICATION TO PERFORM

Compare checkout, calculator, terms and PDFs; test duplicate events and add-on totals. Treat recorded prices as versioned evidence.

Sources: S1, S5. Examples are illustrative; acceptance steps are proposed checks, not reported test execution.

Automatic rewards, issuance and refunds

BARTIDE-20260926-TEAL-10

DATED STATUS

The September 25 checkpoint records automatic reward calculations, refunds, and idempotency exercised in isolated fixtures. The reward-link session requires authentication and is uncached; no live purchase was created for those checks.

IF - PREREQUISITES

The authenticated customer, restaurant, rule version, and eligible source activity match.

HOW - CONTROLLED PROCESS

Evaluate admitted history, enforce issuance uniqueness, and apply refund or reversal evidence without double-counting the underlying activity.

THEN - BOUNDED RESULT

Return eligibility or the authorized durable reward transition with a traceable source reference.

HOLD / DENY BRANCHES

HOLD: History is incomplete, conflicting, or awaiting payment/refund reconciliation. DENY: A different customer requests the reward or an operation lacks issuance/redemption authority.

ILLUSTRATIVE CASE

Replaying the same eligible purchase must not issue the same reward twice; a refund follows the applicable rule rather than creating a new benefit.

VERIFICATION TO PERFORM

Cover duplicates, refunds, rule changes, cross-customer access, authenticated reward-link requests, and cache behavior.

Sources: S1, S5. Examples are illustrative; acceptance steps are proposed checks, not reported test execution.

Staff scheduling and training

BARTIDE-20260926-TEAL-11

DATED STATUS

The September 24 inherited sequence describes shift and training records. This edition does not supply a new operational test or establish schedule optimization or calendar synchronization.

IF - PREREQUISITES

The staff member is active and the acting user has the appropriate restaurant management permission.

HOW - CONTROLLED PROCESS

Validate shift intervals and overlap rules or the assigned course/version; retain who changed the record and the relevant source identity.

THEN - BOUNDED RESULT

Save an explicit schedule or learning record with its actual completion state.

HOLD / DENY BRANCHES

HOLD: Required assignment, course version, or schedule detail is unknown. DENY: An unauthorized user attempts to manage another restaurant's staff.

ILLUSTRATIVE CASE

Completing an in-app course records completion; separate observed assessment is needed for a claim about skill.

VERIFICATION TO PERFORM

Check overlapping shifts, inactive staff, changed course versions, and cross-restaurant edits in a dedicated verification pass.

Sources: S1. Examples are illustrative; acceptance steps are proposed checks, not reported test execution.

Events, reservations and check-in

BARTIDE-20260926-TEAL-12

DATED STATUS

The inherited sequence establishes documentary contracts and module presence. Complete event behavior has not been freshly exercised for this edition.

IF - PREREQUISITES

A published event has admitted capacity and the request uses its current version.

HOW - CONTROLLED PROCESS

Bind RSVP or check-in to the event, customer, operation key, and a capacity-protecting transaction.

THEN - BOUNDED RESULT

Persist one reservation transition or return a capacity/version conflict.

HOLD / DENY BRANCHES

HOLD: Publication, capacity, or required reservation evidence is incomplete. DENY: An unauthorized actor changes the event or another customer's reservation.

ILLUSTRATIVE CASE

Two requests for the final available place must not both acquire that place; one receives the explicit conflict outcome.

VERIFICATION TO PERFORM

Test the final-place race, repeat RSVP, cancellation, duplicate check-in, and unauthorized reservation changes.

Sources: S1. Examples are illustrative; acceptance steps are proposed checks, not reported test execution.

Business posts, media and notifications

BARTIDE-20260926-TEAL-13

DATED STATUS

The inherited paper supplies a proposed documentary contract. No notification was sent and no private media access was exercised in this authoring pass.

IF - PREREQUISITES

The actor may publish for the restaurant and any intended recipient has the relevant consent.

HOW - CONTROLLED PROCESS

Validate content and version, media access policy, subscription identity, and durable message identity.

THEN - BOUNDED RESULT

Publish authorized content or enqueue an admitted notification with a trackable delivery state.

HOLD / DENY BRANCHES

HOLD: Consent, publication readiness, or delivery evidence is missing. DENY: A request exceeds publication rights or accesses restricted media.

ILLUSTRATIVE CASE

A queued notification is not reported as delivered; an unavailable delivery receipt remains an unresolved outcome.

VERIFICATION TO PERFORM

Cover revoked consent, duplicate enqueue, failed delivery, restricted media, and restaurant-bound authoring rights.

Sources: S1. Examples are illustrative; acceptance steps are proposed checks, not reported test execution.

Sales, referrals and launch review

BARTIDE-20260926-TEAL-14

DATED STATUS

The inherited sequence separates stored business state from publication authority. The September 25 release records updated pricing, which supersedes earlier advertised amounts for that release.

IF - PREREQUISITES

An authorized sales or launch reviewer acts on current, appropriately scoped information.

HOW - CONTROLLED PROCESS

Track lead and referral evidence with versions, request identity, and the approved workspace relationship; compare any quote against its dated source.

THEN - BOUNDED RESULT

Return accountable business status and a separate launch-review decision.

HOLD / DENY BRANCHES

HOLD: Referral attribution, current quote, or release prerequisites need review. DENY: A caller accesses private lead records without permission or publishes beyond their authority.

ILLUSTRATIVE CASE

A stored follow-up date documents intent; it does not prove an email, reminder, or external message has been scheduled.

VERIFICATION TO PERFORM

Verify attribution conflicts, repeated state changes, quote versions, private-field exclusion, and the separate publication boundary.

Sources: S1, S5. Examples are illustrative; acceptance steps are proposed checks, not reported test execution.

Bangel reconciliation and release evidence

BARTIDE-20260926-TEAL-15

DATED STATUS

This collection adds new editorial contracts and preserves all recovered Pink/Teal records. Application release reports are dated evidence; compiler execution and production Bangel integration have not been demonstrated here.

IF - PREREQUISITES

A proposed adapter names its grammar/profile, exact inputs, units where relevant, authorized effects, and supporting source revision.

HOW - CONTROLLED PROCESS

Separate parsing, typed admission, execution, evidence receipts, and human approval; compare actual output to a declared expected result.

THEN - BOUNDED RESULT

Produce a scoped PASS, HOLD, or DENY documentary outcome and retain discrepancies for review. These labels are specification vocabulary, not a claim about shipped API enums.

HOLD / DENY BRANCHES

HOLD: A prerequisite, compatible profile, test result, or authorized effect is unestablished. DENY: A rule fails an authority boundary or explicitly forbids the operation.

ILLUSTRATIVE CASE

A valid technical receipt demonstrates a recorded computation; it does not itself authorize charging a card or publishing a release.

VERIFICATION TO PERFORM

Future implementation should bind one workflow first, exercise success/missing-evidence/denial cases, and retain reproducible proof before extending coverage.

Sources: S1, S2, S3, S4, S5. Examples are illustrative; acceptance steps are proposed checks, not reported test execution.

Sources & editorial boundaries

S1 / COLORED-PAPER CATALOG, SEPTEMBER 24-25, 2026

teal-library/data/records.json; seven Pink/Teal PDFs in downloads/. Inherited technical claims retain their original evidence limits.

S2 / CUSTOMER ENTRANCE RELEASE CHECKPOINT, SEPTEMBER 25, 2026

customer-entrance-20260925/STATUS.md. Commit 0701e99fe407f8aa771cdd80d0b34aa4d74ea2b1; recorded 135 access checks, 55 discovery/menu checks, and 26 read-only production checks.

S3 / NEARBY DISCOVERY RELEASE CHECKPOINT, SEPTEMBER 25, 2026

customer-nearby-20260925/STATUS.md. Commit fb3ce588262e43d066d3fdd949420d090d3a34c5; distance-only discovery and per-location driver access documented.

S4 / DRIVER RELEASE COMPLETION, SEPTEMBER 25, 2026

driver-release/completion.json. Commit 5d02a8eeaa51581f99f44cc2c3e6dd51884f20c0; recorded 1,101 pre-release checks and 32 live checks. Real driver payments disabled; authenticated production workflow not tested.

S5 / PRICING AND AUTOMATIC REWARDS CHECKPOINT, SEPTEMBER 25, 2026

pricing-rewards-20260925/STATUS.md. Commit 76c7fb83aec539aed20eb0fcfa7130d0f88521a9; recorded 511 pre-release checks and 22 public checks; isolated reward/refund/idempotency fixtures.

SCOPE OF THIS AUTHORING PASS

No application code, hosting settings, customer data, payment configuration, or public website was changed. Only the deliverable collection was created. The source register describes local evidence reviewed; it does not reproduce private operational files.

TERMINOLOGY

Bangel is the language. MJos is the operating system. MJos Predictive Model retains its distinct project identity. BarTide is the hospitality application. Scientific comparability, probability, payment evidence, and operational authority are separate concepts.

Teal papers

IF / HOW / THEN logic

MJos Predictive Model

The first manifestation of the Bangel Language

MJ Physics Engineering

Owned and operated by Michael Bangel

Clearwater, Florida

Recovered collection / terminology edition

500 recovered source pages

Prepared for review. Not published.

This source-faithful terminology edition updates the language name and publication identity while retaining mathematical expressions, source IDs, historical evidence and page graphics. It is not a fresh execution of the historical tests. Read the companion searchable library for current project sequencing and unresolved semantic relationships.

White papers are excluded. References to White paper identities remain historical citations. Original source hashes refer to the prior originals; revised output hashes are recorded separately.

Gold and Indigo: the original volumes were not recovered. Any new reconstruction is separately identified and must not be counted as those missing volumes.

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: state. Primary manifestations: Bangel , JO, JP. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-001

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: state. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

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SOURCE REFERENCES

BP-ALG-002

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: Bangel , JO, WATER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

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SOURCE REFERENCES

BP-ALG-003

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: mass. Primary manifestations: EVE, JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

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SOURCE REFERENCES

BP-ALG-004

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: dimensionless. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

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SOURCE REFERENCES

BP-ALG-005

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: 1/time. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

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SOURCE REFERENCES

BP-ALG-006

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, JO, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

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LIMITATIONS AND EVIDENCE CEILING

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SOURCE REFERENCES

BP-ALG-007

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Result dimensions: dimensionless. Primary manifestations: JO, JP, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

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LIMITATIONS AND EVIDENCE CEILING
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SOURCE REFERENCES
BP-ALG-008

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: normalized^2. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

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SOURCE REFERENCES

BP-ALG-009

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: normalized. Primary manifestations: EVE, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-010

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: normalized/time. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-011

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio. Primary manifestations: Bangel , JO, JP, M3. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-012

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio vector. Primary manifestations: JO, JP, M3. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-013

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: bytes. Primary manifestations: JO, M3, MJOS. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-014

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: bytes. Primary manifestations: JO, M3, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-015

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: state sequence. Primary manifestations: JO, M3, MJOS. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-016

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: charge/time. Primary manifestations: EVE, JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-017

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-018

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy. Primary manifestations: JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-019

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy. Primary manifestations: JO, MERMAID, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-020

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: mass. Primary manifestations: EVE, JO, MERMAID, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-021

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: mass. Primary manifestations: EVE, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-022

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: force. Primary manifestations: BELLE, EVE, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-023

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length vector. Primary manifestations: BELLE, JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-024

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: count. Primary manifestations: JO, M3, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-025

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: bytes. Primary manifestations: JO, M3, MERMAID. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-026

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Result dimensions: byte-seconds. Primary manifestations: JO, M3, MERMAID. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES
BP-ALG-027

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: currency. Primary manifestations: JO, MERMAID, MK, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-028

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: currency. Primary manifestations: JO, MERMAID, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-029

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: currency. Primary manifestations: MERMAID, MJ, MK, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-030

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio. Primary manifestations: JO, MERMAID, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-031

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.
HOW
Result dimensions: return^2. Primary manifestations: MERMAID, MK, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.
THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.
LIMITATIONS AND EVIDENCE CEILING
Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.
SOURCE REFERENCES
BP-ALG-032

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: currency. Primary manifestations: MERMAID, MK, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-033

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: currency. Primary manifestations: MERMAID, MJ, MK, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-034

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: declared score. Primary manifestations: JO, MJ, MK, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-035

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.
HOW
Result dimensions: currency. Primary manifestations: JO, MERMAID, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.
THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.
LIMITATIONS AND EVIDENCE CEILING
Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.
SOURCE REFERENCES
BP-ALG-036

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: count. Primary manifestations: MERMAID, MJ, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-037

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed state. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-038

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: dimension equality. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-039

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: quantity. Primary manifestations: EVE, JO, MERMAID, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-040

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: volume. Primary manifestations: EVE, JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-041

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: area. Primary manifestations: BELLE, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-042

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: 1/length. Primary manifestations: BELLE, EVE, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-043

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: quantity_k. Primary manifestations: EVE, JO, M3, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-044

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio. Primary manifestations: ANGELS, BELLATRIX, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-045

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: count. Primary manifestations: EVE, JO, M3, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-046

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: quantity_k. Primary manifestations: EVE, JO, MERMAID, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-047

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: quantity_k. Primary manifestations: EVE, JO, M3, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-048

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed vector. Primary manifestations: EVE, JO, MERMAID, MK, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-049

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: EVE, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-050

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: power/area. Primary manifestations: EVE, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-051

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy. Primary manifestations: EVE, JO, MERMAID, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-052

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-053

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio. Primary manifestations: EVE, JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-054

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: output/input. Primary manifestations: EVE, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-055

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: frequency. Primary manifestations: BELLE, JO, M3, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-056

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: count. Primary manifestations: JO, M3, MERMAID, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-057

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed object. Primary manifestations: Bangel , JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-058

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: cell set. Primary manifestations: JO, JP, M3. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-059

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: work units. Primary manifestations: JO, MERMAID, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-060

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: operations/time. Primary manifestations: JO, M3, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-061

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio. Primary manifestations: JO, M3, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-062

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: count. Primary manifestations: JO, M3, MJOS. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-063

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: time. Primary manifestations: JO, M3, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-064

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.
HOW
Result dimensions: cost unit. Primary manifestations: JO, MERMAID, MK, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.
THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.
LIMITATIONS AND EVIDENCE CEILING
Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.
SOURCE REFERENCES
BP-ALG-065

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Result dimensions: declared score. Primary manifestations: JO, JP, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES
BP-ALG-066

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: digest. Primary manifestations: Bangel , JO, JP, MERMAID. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-067

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, BELLATRIX, JO, MERMAID. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-068

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-069

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.
HOW
Result dimensions: logical. Primary manifestations: ANGELS, Bangel, JO. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.
THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.
LIMITATIONS AND EVIDENCE CEILING
Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.
SOURCE REFERENCES
BP-ALG-070

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: time. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-071

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Result dimensions: logical. Primary manifestations: ANGELS, JO, MERMAID. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES
BP-ALG-072

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio. Primary manifestations: JO, MERMAID, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-073

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ELSA, JO, JP, MERMAID. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-074

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: output unit. Primary manifestations: ANGELS, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-075

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: Bangel , ELSA, JO, JP, MJ. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-076

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: JO, M3, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-077

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-078

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: mass/volume. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-079

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: volume. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-080

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-081

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-082

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: area. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-083

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Result dimensions: volume. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES
BP-ALG-084

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: volume. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-085

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: JO, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-086

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: mass. Primary manifestations: EVE, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-087

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: mass/time. Primary manifestations: EVE, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-088

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-089

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: force. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-090

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: force. Primary manifestations: EVE, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-091

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: volume/time. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-092

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed capacity. Primary manifestations: EVE, JO, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-093

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed quantity. Primary manifestations: EVE, MERMAID, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-094

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: Bangel , JO, JP, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-095

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-096

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: JO, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-097

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Result dimensions: dimensionless vector. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES
BP-ALG-098

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length^2. Primary manifestations: JO, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-099

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: volume/time. Primary manifestations: EVE, JO, MERMAID, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-100

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed quantity/time. Primary manifestations: EVE, JO, MERMAID, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-101

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: volume. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-102

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: area. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-103

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-104

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: impulse. Primary manifestations: ANGELS, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-105

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy. Primary manifestations: EVE, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-106

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: dimensionless. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-107

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: area. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-108

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: velocity. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-109

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: dimensionless. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-110

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: volume/time. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-111

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: velocity. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-112

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: power. Primary manifestations: JO, MERMAID, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-113

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy. Primary manifestations: JO, MERMAID, MK, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-114

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, JO, M3, MERMAID, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-115

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: dimensionless. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-116

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: cycle identifier. Primary manifestations: JO, M3, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-117

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed vector. Primary manifestations: EVE, JO, MERMAID, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-118

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy. Primary manifestations: JO, MERMAID, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-119

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: byte*time. Primary manifestations: JO, M3, MERMAID. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-120

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: angular velocity. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-121

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: angular velocity. Primary manifestations: ANGELS, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-122

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Result dimensions: typed quantity. Primary manifestations: EVE, JO, MERMAID, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES
BP-ALG-123

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed vector. Primary manifestations: EVE, JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-124

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, Bangel, JO, JP, M3, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-125

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: JO, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-126

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-127

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: pressure. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-128

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: pressure. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-129

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: angle. Primary manifestations: JO, JP, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-130

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: volume/time. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-131

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length/time. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-132

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: dimensionless. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-133

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: dimensionless. Primary manifestations: EVE, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-134

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-135

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed quantity. Primary manifestations: EVE, JO, M3, MERMAID. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-136

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed capacity. Primary manifestations: EVE, JO, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-137

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, JO, M3, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-138

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-139

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy, power. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-140

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-141

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: temperature, voltage. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-142

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-143

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: state, uncertainty. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-144

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy, power. Primary manifestations: JO, JP, M3, MERMAID, MJ, MJOS, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-145

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy, time. Primary manifestations: JO, JP, M3, MERMAID, MJ, MJOS, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-146

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: current. Primary manifestations: JO, JP, M3, MERMAID, MJ, MJOS, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-147

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Result dimensions: energy, temperature. Primary manifestations: JO, JP, M3, MERMAID, MJ, MJOS, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES
BP-ALG-148

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio, work_per_energy. Primary manifestations: JO, JP, M3, MERMAID, MJ, MJOS, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-149

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length_vector, ratio_vector. Primary manifestations: JO, JP, M3, MERMAID, MJ, MJOS, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-150

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy, logical. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-151

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy, power. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-152

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: power, time. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-153

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: current. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-154

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Result dimensions: ratio, typed_vector. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES
BP-ALG-155

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: acceleration_squared_time, energy. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-156

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-157

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy, power. Primary manifestations: ANGELS, BELLATRIX, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-158

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: power, time. Primary manifestations: ANGELS, BELLATRIX, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-159

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy, state. Primary manifestations: ANGELS, BELLATRIX, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-160

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio, set. Primary manifestations: ANGELS, BELLATRIX, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-161

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy, state. Primary manifestations: ANGELS, BELLATRIX, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-162

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, BELLATRIX, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-163

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-164

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Result dimensions: length. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES
BP-ALG-165

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-166

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Result dimensions: ratio, volume. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES
BP-ALG-167

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Result dimensions: count, quantity. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES
BP-ALG-168

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: count. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-169

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-170

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-171

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy, length. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-172

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Result dimensions: count. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES
BP-ALG-173

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Result dimensions: count/time, logical. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES
BP-ALG-174

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-175

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: quantity. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-176

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Result dimensions: quantity. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES
BP-ALG-177

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy. Primary manifestations: ANGELS, DRO, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, PEARL, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-178

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Result dimensions: energy, logical. Primary manifestations: ANGELS, DRO, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, PEARL, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES
BP-ALG-179

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy. Primary manifestations: ANGELS, DRO, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, PEARL, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-180

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: amount, energy. Primary manifestations: ANGELS, DRO, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, PEARL, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-181

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical, ratio. Primary manifestations: ANGELS, DRO, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, PEARL, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-182

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: charge, temperature. Primary manifestations: ANGELS, DRO, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, PEARL, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-183

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: bytes, logical. Primary manifestations: ANGELS, DRO, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, PEARL, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-184

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: digest, logical. Primary manifestations: ANGELS, BELLATRIX, ELSA, JO, JP, LECANTO, M3, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-185

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: signal. Primary manifestations: ANGELS, BELLATRIX, ELSA, JO, JP, LECANTO, M3, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-186

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: hypothesis, ratio. Primary manifestations: ANGELS, BELLATRIX, ELSA, JO, JP, LECANTO, M3, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-187

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, BELLATRIX, ELSA, JO, JP, LECANTO, M3, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-188

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, BELLATRIX, ELSA, JO, JP, LECANTO, M3, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

Unknown is not zero. Inputs, units, scale, environment, uncertainty, and control volume must be explicit. No physical performance, certification, legal right, financial outcome, or safety conclusion is established by this brief.

SOURCE REFERENCES

BP-ALG-189

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
MJ participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: Cannot convert unknown evidence into permission or claim external authority. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES
BP-FAM-001

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Bangel participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No independent execution, financial issuance, or physical truth. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES
BP-FAM-002

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Elsa participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No execution, permit, finance, or invented intent. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES
BP-FAM-003

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

JP participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: Representation is not admission, execution, or authority. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES

BP-FAM-004

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Mika / MK participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No MJ permit, coordinate approval, physical validation, or evidence invention. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES

BP-FAM-005

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

JO participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No invented purpose, physics, authority, finance, or external effect. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES

BP-FAM-006

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

MJOS participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: Not a second authority principal. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES

BP-FAM-007

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Angels participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No self-admission, ordinary execution, or scope expansion. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES

BP-FAM-008

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Bellatrix participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No positive general admission. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES

BP-FAM-009

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Sister participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: Prediction is not permission. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES
BP-FAM-010

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

EVE participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No release, pricing, minting, or execution. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES

BP-FAM-011

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Mary / M3 participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No authority minting, lease widening, or denial bypass. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES

BP-FAM-012

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Mermaid participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No source-truth invention, minting, or final permit. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES
BP-FAM-013

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Shiva participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No banking, investment advice, custody, exchange, minting, or external operation authority. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES
BP-FAM-014

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Shekina participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No authority from location and no scope widening. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES

BP-FAM-015

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Belle participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: Proposal is not execution or permit. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES
BP-FAM-016

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Lecanto participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: Cannot manufacture certainty or underlying effects. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES

BP-FAM-017

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
Moana participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No underlying effect or credential authority. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES
BP-FAM-018

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Aviator participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No root authority, cross-tenant scope, or unadmitted finance. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES

BP-FAM-019

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
CHI participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No pricing, punishment, rank, or execution. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES
BP-FAM-020

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
WATER participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No authority or value from classification. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN
Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING
No family identity authorizes physical operation, legal ownership, external financial activity, production deployment, or ethics bypass. Every effect requires the full applicable gateway and evidence path.

SOURCE REFERENCES
BP-FAM-021

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

The object is not a person, permit, patent, physical validation, financial instrument, or autonomous actor. Missing evidence remains unknown or held. Object identity cannot substitute for authority, custody, consent, calibration, or measured reality.

SOURCE REFERENCES

BP-OBJ-001

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

The object is not a person, permit, patent, physical validation, financial instrument, or autonomous actor. Missing evidence remains unknown or held. Object identity cannot substitute for authority, custody, consent, calibration, or measured reality.

SOURCE REFERENCES

BP-OBJ-002

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

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SOURCE REFERENCES

BP-OBJ-003

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-OBJ-004

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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SOURCE REFERENCES

BP-OBJ-005

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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SOURCE REFERENCES

BP-OBJ-006

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-OBJ-007

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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SOURCE REFERENCES

BP-OBJ-008

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
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SOURCE REFERENCES
BP-OBJ-009

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-OBJ-010

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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SOURCE REFERENCES

BP-OBJ-011

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
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SOURCE REFERENCES
BP-OBJ-012

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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SOURCE REFERENCES

BP-OBJ-013

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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SOURCE REFERENCES

BP-OBJ-014

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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SOURCE REFERENCES

BP-OBJ-015

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-OBJ-016

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-OBJ-017

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
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HOW
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SOURCE REFERENCES
BP-OBJ-018

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
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SOURCE REFERENCES
BP-OBJ-019

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-OBJ-020

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

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SOURCE REFERENCES

BP-OBJ-021

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-OBJ-022

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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SOURCE REFERENCES

BP-OBJ-023

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-OBJ-024

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-OBJ-025

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
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SOURCE REFERENCES
BP-OBJ-026

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-OBJ-027

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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SOURCE REFERENCES

BP-OBJ-028

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-OBJ-029

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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SOURCE REFERENCES

BP-OBJ-030

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

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SOURCE REFERENCES

BP-OBJ-031

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

The object is not a person, permit, patent, physical validation, financial instrument, or autonomous actor. Missing evidence remains unknown or held. Object identity cannot substitute for authority, custody, consent, calibration, or measured reality.

SOURCE REFERENCES

BP-OBJ-032

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

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LIMITATIONS AND EVIDENCE CEILING

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SOURCE REFERENCES

BP-OBJ-033

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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SOURCE REFERENCES

BP-OBJ-034

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

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SOURCE REFERENCES

BP-OBJ-035

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-OBJ-036

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-OBJ-037

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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SOURCE REFERENCES

BP-OBJ-038

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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SOURCE REFERENCES

BP-OBJ-039

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-OBJ-040

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

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SOURCE REFERENCES

BP-OBJ-041

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

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SOURCE REFERENCES
BP-OBJ-042

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

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SOURCE REFERENCES

BP-OBJ-043

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-OBJ-044

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-OBJ-045

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-OBJ-046

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-OBJ-047

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
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HOW
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SOURCE REFERENCES
BP-OBJ-048

IF/HOW/THEN logic | source kind: BLUE_PAGE

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SOURCE REFERENCES

BP-OBJ-049

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-OBJ-050

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
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HOW
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SOURCE REFERENCES
BP-OBJ-051

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

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SOURCE REFERENCES

BP-OBJ-052

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

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SOURCE REFERENCES

BP-OBJ-053

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

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LIMITATIONS AND EVIDENCE CEILING

No product brief authorizes manufacturing, energization, operation, deployment, certification, launch, vessel use, financial service, or external claim. All physical and regulated lanes remain on hold unless separately evidenced and permitted.

SOURCE REFERENCES

BP-PROD-001

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

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SOURCE REFERENCES

BP-PROD-002

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

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LIMITATIONS AND EVIDENCE CEILING

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SOURCE REFERENCES

BP-PROD-003

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

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LIMITATIONS AND EVIDENCE CEILING

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SOURCE REFERENCES

BP-PROD-004

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

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LIMITATIONS AND EVIDENCE CEILING

No product brief authorizes manufacturing, energization, operation, deployment, certification, launch, vessel use, financial service, or external claim. All physical and regulated lanes remain on hold unless separately evidenced and permitted.

SOURCE REFERENCES

BP-PROD-005

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

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LIMITATIONS AND EVIDENCE CEILING
No product brief authorizes manufacturing, energization, operation, deployment, certification, launch, vessel use, financial service, or external claim. All physical and regulated lanes remain on hold unless separately evidenced and permitted.

SOURCE REFERENCES
BP-PROD-006

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

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SOURCE REFERENCES
BP-PROD-007

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

No product brief authorizes manufacturing, energization, operation, deployment, certification, launch, vessel use, financial service, or external claim. All physical and regulated lanes remain on hold unless separately evidenced and permitted.

SOURCE REFERENCES

BP-PROD-008

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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LIMITATIONS AND EVIDENCE CEILING

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SOURCE REFERENCES

BP-PROD-009

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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LIMITATIONS AND EVIDENCE CEILING

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SOURCE REFERENCES

BP-PROD-010

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
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HOW
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SOURCE REFERENCES
BP-PROD-011

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-PROD-012

IF/HOW/THEN logic | source kind: BLUE_PAGE

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SOURCE REFERENCES

BP-PROD-013

IF/HOW/THEN logic | source kind: BLUE_PAGE

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SOURCE REFERENCES
BP-PROD-014

IF/HOW/THEN logic | source kind: BLUE_PAGE

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SOURCE REFERENCES

BP-PROD-015

IF/HOW/THEN logic | source kind: BLUE_PAGE

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SOURCE REFERENCES

BP-PROD-016

IF/HOW/THEN logic | source kind: BLUE_PAGE

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SOURCE REFERENCES

BP-PROD-017

IF/HOW/THEN logic | source kind: BLUE_PAGE

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SOURCE REFERENCES
BP-PROD-018

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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SOURCE REFERENCES

BP-PROD-019

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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LIMITATIONS AND EVIDENCE CEILING

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SOURCE REFERENCES

BP-PROD-020

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
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HOW
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SOURCE REFERENCES
BP-PROD-021

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
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HOW
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LIMITATIONS AND EVIDENCE CEILING
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SOURCE REFERENCES
BP-PROD-022

IF/HOW/THEN logic | source kind: BLUE_PAGE

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HOW
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SOURCE REFERENCES
BP-PROD-023

IF/HOW/THEN logic | source kind: BLUE_PAGE

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LIMITATIONS AND EVIDENCE CEILING

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SOURCE REFERENCES

BP-PROD-024

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW
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LIMITATIONS AND EVIDENCE CEILING
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SOURCE REFERENCES
BP-PROD-025

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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LIMITATIONS AND EVIDENCE CEILING

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SOURCE REFERENCES

BP-PROD-026

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
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HOW
The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

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LIMITATIONS AND EVIDENCE CEILING
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SOURCE REFERENCES
BP-PROD-027

IF/HOW/THEN logic | source kind: BLUE_PAGE

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LIMITATIONS AND EVIDENCE CEILING

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SOURCE REFERENCES

BP-PROD-028

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
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HOW
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SOURCE REFERENCES
BP-PROD-029

IF/HOW/THEN logic | source kind: BLUE_PAGE

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SOURCE REFERENCES

BP-PROD-030

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF
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HOW
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SOURCE REFERENCES
BP-PROD-031

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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SOURCE REFERENCES

BP-PROD-032

IF/HOW/THEN logic | source kind: BLUE_PAGE

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SOURCE REFERENCES

BP-PROD-033

IF/HOW/THEN logic | source kind: BLUE_PAGE

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SOURCE REFERENCES

BP-PROD-034

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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SOURCE REFERENCES

BP-PROD-035

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

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HOW

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Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

No product brief authorizes manufacturing, energization, operation, deployment, certification, launch, vessel use, financial service, or external claim. All physical and regulated lanes remain on hold unless separately evidenced and permitted.

SOURCE REFERENCES

BP-PROD-036

IF/HOW/THEN logic | source kind: BLUE_PAGE

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

LIMITATIONS AND EVIDENCE CEILING

No product brief authorizes manufacturing, energization, operation, deployment, certification, launch, vessel use, financial service, or external claim. All physical and regulated lanes remain on hold unless separately evidenced and permitted.

SOURCE REFERENCES

BP-PROD-037

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-001

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-002

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-003

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-004

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-005

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-006

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-007

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-008

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-009

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-010

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-011

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-012

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-013

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-014

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-015

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-016

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-017

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-018

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-019

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-020

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-021

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-022

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-023

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-024

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-025

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-026

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-027

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-028

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-029

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-030

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-031

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-032

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-033

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-034

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-035

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-036

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-037

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-038

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-039

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-040

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-041

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-042

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-043

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-044

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-045

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.
HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.
THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.
LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.
SOURCE REFERENCES
YP-046

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-047

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-048

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-049

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-050

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-051

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-052

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-053

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-054

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-055

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-056

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-057

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-058

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-059

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-060

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-061

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-062

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-063

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.
HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.
THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.
LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.
SOURCE REFERENCES
YP-064

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.
HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.
THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.
LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.
SOURCE REFERENCES
YP-065

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-066

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.
HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.
THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.
LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.
SOURCE REFERENCES
YP-067

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-068

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-069

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-070

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-071

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-072

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-073

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-074

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-075

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-076

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.
HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.
THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.
LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.
SOURCE REFERENCES
YP-077

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-078

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.
HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.
THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.
LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.
SOURCE REFERENCES
YP-079

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-080

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-081

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-082

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-083

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.
HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.
THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.
LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.
SOURCE REFERENCES
YP-084

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-085

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-086

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-087

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-088

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-089

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-090

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-091

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-092

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-093

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.
HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.
THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.
LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.
SOURCE REFERENCES
YP-094

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-095

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-096

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-097

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.
HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.
THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.
LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.
SOURCE REFERENCES
YP-098

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING

Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES

YP-099

IF/HOW/THEN logic | source kind: YELLOW_PAGE

IF
If a visual or measurement blueprint is selected for review or simulation.

HOW
Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN
Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

LIMITATIONS AND EVIDENCE CEILING
Not-to-scale visual representation; no physical validation, coordinate approval, or product certification.

SOURCE REFERENCES
YP-100

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-FAMILY-WP-01

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-FAMILY-WP-02

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-FAMILY-WP-03

IF/HOW/THEN logic | source kind: WHITE_PAPER

- IF

If the White Paper scope is used to support a command, product, family, or design decision.
- HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
- THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
- LIMITATIONS AND EVIDENCE CEILING

White-paper expression is not self-validating and cannot mint authority.
- SOURCE REFERENCES

MJ-PBMEF-FAMILY-WP-04

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-FAMILY-WP-05

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-FAMILY-WP-06

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-FAMILY-WP-07

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-FAMILY-WP-08

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-FAMILY-WP-09

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-FAMILY-WP-10

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-FAMILY-WP-11

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-FAMILY-WP-12

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-FAMILY-WP-13

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-FAMILY-WP-14

IF/HOW/THEN logic | source kind: WHITE_PAPER

- IF

If the White Paper scope is used to support a command, product, family, or design decision.
- HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
- THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
- LIMITATIONS AND EVIDENCE CEILING

White-paper expression is not self-validating and cannot mint authority.
- SOURCE REFERENCES

MJ-PBMEF-FAMILY-WP-15

IF/HOW/THEN logic | source kind: WHITE_PAPER

- IF

If the White Paper scope is used to support a command, product, family, or design decision.
- HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
- THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
- LIMITATIONS AND EVIDENCE CEILING

White-paper expression is not self-validating and cannot mint authority.
- SOURCE REFERENCES

MJ-PBMEF-FAMILY-WP-16

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-FAMILY-WP-17

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-FAMILY-WP-18

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-FAMILY-WP-19

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-FAMILY-WP-20

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-FAMILY-WP-21

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-01

IF/HOW/THEN logic | source kind: WHITE_PAPER

- IF**
If the White Paper scope is used to support a command, product, family, or design decision.
- HOW**
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
- THEN**
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
- LIMITATIONS AND EVIDENCE CEILING**
White-paper expression is not self-validating and cannot mint authority.
- SOURCE REFERENCES**
MJ-PBMEF-PRODUCT-WP-02

IF/HOW/THEN logic | source kind: WHITE_PAPER

- IF

If the White Paper scope is used to support a command, product, family, or design decision.
- HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
- THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
- LIMITATIONS AND EVIDENCE CEILING

White-paper expression is not self-validating and cannot mint authority.
- SOURCE REFERENCES

MJ-PBMEF-PRODUCT-WP-03

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-04

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-05

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-06

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

LIMITATIONS AND EVIDENCE CEILING

White-paper expression is not self-validating and cannot mint authority.

SOURCE REFERENCES

MJ-PBMEF-PRODUCT-WP-07

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-08

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-09

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-10

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-11

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-12

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-13

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-14

IF/HOW/THEN logic | source kind: WHITE_PAPER

- IF

If the White Paper scope is used to support a command, product, family, or design decision.
- HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
- THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
- LIMITATIONS AND EVIDENCE CEILING

White-paper expression is not self-validating and cannot mint authority.
- SOURCE REFERENCES

MJ-PBMEF-PRODUCT-WP-15

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-16

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
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LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-17

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
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Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-18

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
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LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-19

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-20

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
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LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-21

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-22

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-23

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-24

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-25

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-26

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-27

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-28

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-SOLAR-WP-01

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-SOLAR-WP-02

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-SOLAR-WP-03

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-SOLAR-WP-04

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-33

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-34

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.

HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.

SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-35

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-36

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-PRODUCT-WP-37

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-REPRESENTATION-WP-01

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-REPRESENTATION-WP-02

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-REPRESENTATION-WP-03

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-REPRESENTATION-WP-04

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-REPRESENTATION-WP-05

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-REPRESENTATION-WP-06

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-REPRESENTATION-WP-07

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-REPRESENTATION-WP-08

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-REPRESENTATION-WP-09

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-REPRESENTATION-WP-10

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-REPRESENTATION-WP-11

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-REPRESENTATION-WP-12

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-REPRESENTATION-WP-13

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-REPRESENTATION-WP-14

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-REPRESENTATION-WP-15

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

LIMITATIONS AND EVIDENCE CEILING

White-paper expression is not self-validating and cannot mint authority.

SOURCE REFERENCES

MJ-PBMEF-REPRESENTATION-WP-16

IF/HOW/THEN logic | source kind: WHITE_PAPER

IF
If the White Paper scope is used to support a command, product, family, or design decision.
HOW
Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.
THEN
Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.
LIMITATIONS AND EVIDENCE CEILING
White-paper expression is not self-validating and cannot mint authority.
SOURCE REFERENCES
MJ-PBMEF-REPRESENTATION-WP-17

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in jo/*.py is parsed, imported, executed, or cited.

HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.

SOURCE REFERENCES
jo/*.py

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF

If an item in Bangel/**/*Bangel is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

LIMITATIONS AND EVIDENCE CEILING

Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.

SOURCE REFERENCES

Bangel/**/*Bangel

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

- IF

If an item in schemas/*.json is parsed, imported, executed, or cited.
- HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.
- THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.
- LIMITATIONS AND EVIDENCE CEILING

Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.
- SOURCE REFERENCES

schemas/*.json

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in pathways/* is parsed, imported, executed, or cited.
HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.
THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.
LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.
SOURCE REFERENCES
pathways/*

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in manifest/* is parsed, imported, executed, or cited.
HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.
THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.
LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.
SOURCE REFERENCES
manifest/*

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in passkey/* is parsed, imported, executed, or cited.
HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.
THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.
LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.
SOURCE REFERENCES
passkey/*

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in tests/* is parsed, imported, executed, or cited.

HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.

SOURCE REFERENCES
tests/*

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in validation/* is parsed, imported, executed, or cited.
HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.
THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.
LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.
SOURCE REFERENCES
validation/*

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in official-docs/**/potential-ip-points/* is parsed, imported, executed, or cited.
HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.
THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.
LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.
SOURCE REFERENCES
official-docs/**/potential-ip-points/*

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in official-docs/blue-pages/* is parsed, imported, executed, or cited.
HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.
THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.
LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.
SOURCE REFERENCES
official-docs/blue-pages/*

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in official-docs/pink-paper/* and official-docs/pink-papers/* is parsed, imported, executed, or cited.
HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.
THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.
LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.
SOURCE REFERENCES
official-docs/pink-paper/* and official-docs/pink-papers/*

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in official-docs/review-series/* is parsed, imported, executed, or cited.

HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.

SOURCE REFERENCES
official-docs/review-series/*

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in official-docs/solar/* is parsed, imported, executed, or cited.

HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.

SOURCE REFERENCES
official-docs/solar/*

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in official-docs/r8/* is parsed, imported, executed, or cited.
HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.
THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.
LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.
SOURCE REFERENCES
official-docs/r8/*

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in official-docs/terms/* is parsed, imported, executed, or cited.
HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.
THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.
LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.
SOURCE REFERENCES
official-docs/terms/*

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in manifest/*REGISTER* is parsed, imported, executed, or cited.
HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.
THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.
LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.
SOURCE REFERENCES
manifest/*REGISTER*

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in pathways/FORMULA-REGISTER.json is parsed, imported, executed, or cited.
HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.
THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.
LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.
SOURCE REFERENCES
pathways/FORMULA-REGISTER.json

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in manifest/ETHICS-MANIFEST.* is parsed, imported, executed, or cited.
HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.
THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.
LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.
SOURCE REFERENCES
manifest/ETHICS-MANIFEST.*

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in schemas and validation hold receipts is parsed, imported, executed, or cited.
HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.
THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.
LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.
SOURCE REFERENCES
schemas and validation hold receipts

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in Git bundle, source ZIP, content manifest is parsed, imported, executed, or cited.
HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.
THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.
LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.
SOURCE REFERENCES
Git bundle, source ZIP, content manifest

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in official documentation QA and PDF preflight is parsed, imported, executed, or cited.
HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.
THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.
LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.
SOURCE REFERENCES
official documentation QA and PDF preflight

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in eligibility, roots, declaration, public receipt is parsed, imported, executed, or cited.
HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.
THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.
LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.
SOURCE REFERENCES
eligibility, roots, declaration, public receipt

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in internal banking MVP; no external crypto is parsed, imported, executed, or cited.
HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.
THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.
LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.
SOURCE REFERENCES
internal banking MVP; no external crypto

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in 100 Yellow visual bundles is parsed, imported, executed, or cited.
HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.
THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.
LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.
SOURCE REFERENCES
100 Yellow visual bundles

IF/HOW/THEN logic | source kind: SOURCE_PROCESS_GROUP

IF
If an item in lifecycle, syntax, and safety annexes is parsed, imported, executed, or cited.
HOW
Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.
THEN
Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.
LIMITATIONS AND EVIDENCE CEILING
Grouped Teal Page covers a source family; every individual source file is mapped in the Teal coverage matrix.
SOURCE REFERENCES
lifecycle, syntax, and safety annexes

Teal papers

IF / HOW / THEN logic

MJos Predictive Model

The first manifestation of the Bangel Language

MJ Physics Engineering

Owned and operated by Michael Bangel

Clearwater, Florida

September 12 Teal rerun / terminology edition

1054 recovered source pages

Prepared for review. Not published.

This source-faithful terminology edition updates the language name and publication identity while retaining mathematical expressions, source IDs, historical evidence and page graphics. It is not a fresh execution of the historical tests. Read the companion searchable library for current project sequencing and unresolved semantic relationships.

White papers are excluded. References to White paper identities remain historical citations. Original source hashes refer to the prior originals; revised output hashes are recorded separately.

Gold and Indigo: the original volumes were not recovered. Any new reconstruction is separately identified and must not be counted as those missing volumes.

One Teal library

1,050 individual papers / 43 batches / 258 source modules

Documentary rerun complete for recovered scope. Executable implementation remains partial.

Each item retains its own identity, condition, method, outcome and evidence state. An individual paper or a passing assertion does not close a missing formula contract.

Bangel 58153a770206e2a3b500671aa4ca50e20c9c3a7d
Associated core 0d89fdf7f7914b9fdb5e62533613bfab41d34014

WHAT THE RERUN CONTAINS

500 Teal briefs; all 20 Pink documents and 1075 preserved source pages; every one of 242 Pink formulas and the gateway; 29 requirement papers; 258 complete source modules and 2944 individual source-function/declaration entries.

FRESH RESULTS

4,496 existing Python tests passed. The individual rerun checked 133 available Pink profiles, 418 missing-input cases, 78 supplied domain cases, 500 Teal identities, 13 Teal gate cases, 25 Hagar scenarios and 166 protection scenarios. Counts overlap in coverage and are not distinct capabilities.

WHAT REMAINS OPEN

110 Pink formula conversions and all 242 full measurement/evidence contracts remain open. Hagar does not have a verified binding for every Pink formula. Native .NET and C++/Rust/R builds, original PDF graphics, cross-platform packaging and physical evidence are outside the fresh execution results.

OPEN THE COLLECTION

START-HERE.html provides search and direct individual-paper links. The complete PDF combines the three reading volumes. Individual Markdown/JSON records, Bangel source text editions, code, actual receipts and hashes are included in the archive.

Existing Teal papers - individual rerun

500 individual papers. Source references, current evidence and open requirements accompany every item.

Documentary rerun complete for recovered scope. Executable implementation remains partial.

Each item retains its own identity, condition, method, outcome and evidence state. An individual paper or a passing assertion does not close a missing formula contract.

Bangel 58153a770206e2a3b500671aa4ca50e20c9c3a7d
Associated core 0d89fdf7f7914b9fdb5e62533613bfab41d34014

TR-TP-001 / R1 transition

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: state. Primary manifestations: BANGEL, JO, JP. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-001 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-001

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-001; BP-ALG-001

Evidence: evidence/rerun/teal/TP-001.json

TR-TP-002 / R2 transition

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: state. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-002 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-002

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-002; BP-ALG-002

Evidence: evidence/rerun/teal/TP-002.json

TR-TP-003 / Unknown invariant

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: BANGEL, JO, WATER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-003 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-003

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-003; BP-ALG-003

Evidence: evidence/rerun/teal/TP-003.json

TR-TP-004 / Mass inflection

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: mass. Primary manifestations: EVE, JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-004 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-004

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-004; BP-ALG-004

Evidence: evidence/rerun/teal/TP-004.json

TR-TP-005 / Noise smoothing

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: dimensionless. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-005 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-005

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-005; BP-ALG-005

Evidence: evidence/rerun/teal/TP-005.json

TR-TP-006 / Trend estimator

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: 1/time. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-006 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-006

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-006; BP-ALG-006

Evidence: evidence/rerun/teal/TP-006.json

TR-TP-007 / Anti-spike gate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, JO, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-007 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-007

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-007; BP-ALG-007

Evidence: evidence/rerun/teal/TP-007.json

TR-TP-008 / Prediction gain

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: dimensionless. Primary manifestations: JO, JP, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-008 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-008

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-008; BP-ALG-008

Evidence: evidence/rerun/teal/TP-008.json

TR-TP-009 / Covariance update

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: normalized². Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-009 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-009

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-009; BP-ALG-009

Evidence: evidence/rerun/teal/TP-009.json

TR-TP-010 / Shadow depth

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: normalized. Primary manifestations: EVE, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-010 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-010

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-010; BP-ALG-010

Evidence: evidence/rerun/teal/TP-010.json

TR-TP-011 / Shadow growth rate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: normalized/time. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-011 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-011

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-011; BP-ALG-011

Evidence: evidence/rerun/teal/TP-011.json

TR-TP-012 / Front-end allocation / Front-end reserve

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio. Primary manifestations: BANGEL, JO, JP, M3. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-012 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-012, F-013

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-012; BP-ALG-012

Evidence: evidence/rerun/teal/TP-012.json

TR-TP-013 / Bounded allocation update

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio vector. Primary manifestations: JO, JP, M3. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-013 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-014

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-013; BP-ALG-013

Evidence: evidence/rerun/teal/TP-013.json

TR-TP-014 / Request memory

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: bytes. Primary manifestations: JO, M3, MJOS. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-014 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-015

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-014; BP-ALG-014

Evidence: evidence/rerun/teal/TP-014.json

TR-TP-015 / Memory preallocation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: bytes. Primary manifestations: JO, M3, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-015 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-016

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-015; BP-ALG-015

Evidence: evidence/rerun/teal/TP-015.json

TR-TP-016 / Hard flush

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: state sequence. Primary manifestations: JO, M3, MJOS. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-016 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-017

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-016; BP-ALG-016

Evidence: evidence/rerun/teal/TP-016.json

TR-TP-017 / Charge balance

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: charge/time. Primary manifestations: EVE, JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-017 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-018

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-017; BP-ALG-017

Evidence: evidence/rerun/teal/TP-017.json

TR-TP-018 / Capacitor energy

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-018 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-019

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-018; BP-ALG-018

Evidence: evidence/rerun/teal/TP-018.json

TR-TP-019 / General stored energy

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy. Primary manifestations: JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-019 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-020

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-019; BP-ALG-019

Evidence: evidence/rerun/teal/TP-019.json

TR-TP-020 / Energy balance

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy. Primary manifestations: JO, MERMAID, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-020 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-021

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-020; BP-ALG-020

Evidence: evidence/rerun/teal/TP-020.json

TR-TP-021 / Mass balance / EVE screen balance

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: mass. Primary manifestations: EVE, JO, MERMAID, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-021 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-022, F-023

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-021; BP-ALG-021

Evidence: evidence/rerun/teal/TP-021.json

TR-TP-022 / EVE evaporation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: mass. Primary manifestations: EVE, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-022 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-024

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-022; BP-ALG-022

Evidence: evidence/rerun/teal/TP-022.json

TR-TP-023 / Upward force

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: force. Primary manifestations: BELLE, EVE, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-023 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-025

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-023; BP-ALG-023

Evidence: evidence/rerun/teal/TP-023.json

TR-TP-024 / Coordinate mapping

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length vector. Primary manifestations: BELLE, JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-024 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-026

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-024; BP-ALG-024

Evidence: evidence/rerun/teal/TP-024.json

TR-TP-025 / Sister physical umbrella count

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: count. Primary manifestations: JO, M3, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-025 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-027

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-025; BP-ALG-025

Evidence: evidence/rerun/teal/TP-025.json

TR-TP-026 / Byte balance

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: bytes. Primary manifestations: JO, M3, MERMAID. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-026 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-028

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-026; BP-ALG-026

Evidence: evidence/rerun/teal/TP-026.json

TR-TP-027 / Residual consequence

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: byte-seconds. Primary manifestations: JO, M3, MERMAID. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-027 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-029

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-027; BP-ALG-027

Evidence: evidence/rerun/teal/TP-027.json

TR-TP-028 / Protected liquidity

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: currency. Primary manifestations: JO, MERMAID, MK, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-028 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-030

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-028; BP-ALG-028

Evidence: evidence/rerun/teal/TP-028.json

TR-TP-029 / Investable surplus

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: currency. Primary manifestations: JO, MERMAID, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-029 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-031

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-029; BP-ALG-029

Evidence: evidence/rerun/teal/TP-029.json

TR-TP-030 / Risk-capital ceiling

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: currency. Primary manifestations: MERMAID, MJ, MK, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-030 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-032

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-030; BP-ALG-030

Evidence: evidence/rerun/teal/TP-030.json

TR-TP-031 / Portfolio concentration

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio. Primary manifestations: JO, MERMAID, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-031 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-033

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-031; BP-ALG-031

Evidence: evidence/rerun/teal/TP-031.json

TR-TP-032 / Portfolio variance

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: return^2 . Primary manifestations: MERMAID, MK, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-032 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-034

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-032; BP-ALG-032

Evidence: evidence/rerun/teal/TP-032.json

TR-TP-033 / Capital friction

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: currency. Primary manifestations: MERMAID, MK, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-033 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-035

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-033; BP-ALG-033

Evidence: evidence/rerun/teal/TP-033.json

TR-TP-034 / Opportunity lower bound

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: currency. Primary manifestations: MERMAID, MJ, MK, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-034 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-036

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-034; BP-ALG-034

Evidence: evidence/rerun/teal/TP-034.json

TR-TP-035 / Abundance objective

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: declared score. Primary manifestations: JO, MJ, MK, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-035 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-037

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-035; BP-ALG-035

Evidence: evidence/rerun/teal/TP-035.json

TR-TP-036 / SHIVAS eligible value

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: currency. Primary manifestations: JO, MERMAID, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-036 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-038

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-036; BP-ALG-036

Evidence: evidence/rerun/teal/TP-036.json

TR-TP-037 / SHIVAS ceiling

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: count. Primary manifestations: MERMAID, MJ, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-037 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-039

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-037; BP-ALG-037

Evidence: evidence/rerun/teal/TP-037.json

TR-TP-038 / MK state model

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed state. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-038 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-040

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-038; BP-ALG-038

Evidence: evidence/rerun/teal/TP-038.json

TR-TP-039 / Dimensional integrity

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: dimension equality. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-039 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-041

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-039; BP-ALG-039

Evidence: evidence/rerun/teal/TP-039.json

TR-TP-040 / Conservation residual

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: quantity. Primary manifestations: EVE, JO, MERMAID, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-040 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-042

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-040; BP-ALG-040

Evidence: evidence/rerun/teal/TP-040.json

TR-TP-041 / Pearl simulation ellipsoid volume

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: volume. Primary manifestations: EVE, JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-041 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-043

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-041; BP-ALG-041

Evidence: evidence/rerun/teal/TP-041.json

TR-TP-042 / Pearl simulation surface-area approximation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: area. Primary manifestations: BELLE, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-042 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-044

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-042; BP-ALG-042

Evidence: evidence/rerun/teal/TP-042.json

TR-TP-043 / Pearl simulation exposure ratio

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: 1/length. Primary manifestations: BELLE, EVE, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-043 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-045

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-043; BP-ALG-043

Evidence: evidence/rerun/teal/TP-043.json

TR-TP-044 / Pearl simulation capacity slack

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: quantity_k. Primary manifestations: EVE, JO, M3, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-044 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-046

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-044; BP-ALG-044

Evidence: evidence/rerun/teal/TP-044.json

TR-TP-045 / Pearl simulation saturation ratio

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio. Primary manifestations: ANGELS, BELLATRIX, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-045 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-047

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-045; BP-ALG-045

Evidence: evidence/rerun/teal/TP-045.json

TR-TP-046 / Pearl simulation object count

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: count. Primary manifestations: EVE, JO, M3, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-046 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-048

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-046; BP-ALG-046

Evidence: evidence/rerun/teal/TP-046.json

TR-TP-047 / Pearl simulation accounting balance

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: quantity_k. Primary manifestations: EVE, JO, MERMAID, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-047 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-049

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-047; BP-ALG-047

Evidence: evidence/rerun/teal/TP-047.json

TR-TP-048 / Pearl simulated transfer opportunity

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: quantity_k. Primary manifestations: EVE, JO, M3, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-048 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-050

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-048; BP-ALG-048

Evidence: evidence/rerun/teal/TP-048.json

TR-TP-049 / Pearl simulated regeneration vector

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed vector. Primary manifestations: EVE, JO, MERMAID, MK, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-049 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-051

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-049; BP-ALG-049

Evidence: evidence/rerun/teal/TP-049.json

TR-TP-050 / Pearl acoustic simulation wavelength

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: EVE, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-050 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-052

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-050; BP-ALG-050

Evidence: evidence/rerun/teal/TP-050.json

TR-TP-051 / Pearl acoustic simulation intensity

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: power/area. Primary manifestations: EVE, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-051 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-053

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-051; BP-ALG-051

Evidence: evidence/rerun/teal/TP-051.json

TR-TP-052 / Pearl acoustic simulation energy

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy. Primary manifestations: EVE, JO, MERMAID, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-052 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-054

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-052; BP-ALG-052

Evidence: evidence/rerun/teal/TP-052.json

TR-TP-053 / Pearl acoustic simulation observability gate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-053 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-055

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-053; BP-ALG-053

Evidence: evidence/rerun/teal/TP-053.json

TR-TP-054 / Pearl acoustic simulation signal-to-noise

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio. Primary manifestations: EVE, JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-054 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-056

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-054; BP-ALG-054

Evidence: evidence/rerun/teal/TP-054.json

TR-TP-055 / Pearl acoustic simulation transfer function

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: output/input. Primary manifestations: EVE, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-055 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-057

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-055; BP-ALG-055

Evidence: evidence/rerun/teal/TP-055.json

TR-TP-056 / Pearl acoustic simulation setpoint / Bounded Pearl acoustic simulation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: frequency. Primary manifestations: BELLE, JO, M3, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-056 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 1 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-058, F-059

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-056; BP-ALG-056

Evidence: evidence/rerun/teal/TP-056.json

TR-TP-057 / Pearl simulation registry reconciliation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: count. Primary manifestations: JO, M3, MERMAID, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-057 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-060

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-057; BP-ALG-057

Evidence: evidence/rerun/teal/TP-057.json

TR-TP-058 / Bangel Sheet cell state

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed object. Primary manifestations: BANGEL, JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-058 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-061

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-058; BP-ALG-058

Evidence: evidence/rerun/teal/TP-058.json

TR-TP-059 / Affected dependency closure

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: cell set. Primary manifestations: JO, JP, M3. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-059 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-062

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-059; BP-ALG-059

Evidence: evidence/rerun/teal/TP-059.json

TR-TP-060 / Incremental recompute cost

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: work units. Primary manifestations: JO, MERMAID, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-060 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-063

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-060; BP-ALG-060

Evidence: evidence/rerun/teal/TP-060.json

TR-TP-061 / Concurrent edit arrival

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: operations/time. Primary manifestations: JO, M3, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-061 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-064

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-061; BP-ALG-061

Evidence: evidence/rerun/teal/TP-061.json

TR-TP-062 / Spreadsheet service utilization

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio. Primary manifestations: JO, M3, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-062 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-065

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-062; BP-ALG-062

Evidence: evidence/rerun/teal/TP-062.json

TR-TP-063 / Spreadsheet worker requirement

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: count. Primary manifestations: JO, M3, MJOS. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-063 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-066

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-063; BP-ALG-063

Evidence: evidence/rerun/teal/TP-063.json

TR-TP-064 / Recalculation latency

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: time. Primary manifestations: JO, M3, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-064 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-067

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-064; BP-ALG-064

Evidence: evidence/rerun/teal/TP-064.json

TR-TP-065 / Spreadsheet data cost

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: cost unit. Primary manifestations: JO, MERMAID, MK, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-065 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-068

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-065; BP-ALG-065

Evidence: evidence/rerun/teal/TP-065.json

TR-TP-066 / Pearl simulation partition objective

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: declared score. Primary manifestations: JO, JP, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-066 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-069

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-066; BP-ALG-066

Evidence: evidence/rerun/teal/TP-066.json

TR-TP-067 / Sheet revision root

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: digest. Primary manifestations: BANGEL, JO, JP, MERMAID. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-067 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-070

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-067; BP-ALG-067

Evidence: evidence/rerun/teal/TP-067.json

TR-TP-068 / Audit-particle completeness

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, BELLATRIX, JO, MERMAID. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-068 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-071

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-068; BP-ALG-068

Evidence: evidence/rerun/teal/TP-068.json

TR-TP-069 / Iterative recalculation stability

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-069 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-072

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-069; BP-ALG-069

Evidence: evidence/rerun/teal/TP-069.json

TR-TP-070 / Revision conflict gate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, BANGEL, JO. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-070 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-073

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-070; BP-ALG-070

Evidence: evidence/rerun/teal/TP-070.json

TR-TP-071 / Freshness age

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: time. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-071 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-074

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-071; BP-ALG-071

Evidence: evidence/rerun/teal/TP-071.json

TR-TP-072 / Staleness gate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, JO, MERMAID. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-072 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-075

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-072; BP-ALG-072

Evidence: evidence/rerun/teal/TP-072.json

TR-TP-073 / Data-performance correlation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio. Primary manifestations: JO, MERMAID, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-073 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-076

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-073; BP-ALG-073

Evidence: evidence/rerun/teal/TP-073.json

TR-TP-074 / Silo unification gate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ELSA, JO, JP, MERMAID. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-074 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-077

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-074; BP-ALG-074

Evidence: evidence/rerun/teal/TP-074.json

TR-TP-075 / Formula verification residual

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: output unit. Primary manifestations: ANGELS, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-075 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-078

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-075; BP-ALG-075

Evidence: evidence/rerun/teal/TP-075.json

TR-TP-076 / Operational intake completeness

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: BANGEL, ELSA, JO, JP, MJ. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-076 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-079

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-076; BP-ALG-076

Evidence: evidence/rerun/teal/TP-076.json

TR-TP-077 / Spreadsheet capacity gate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: JO, M3, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-077 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-080

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-077; BP-ALG-077

Evidence: evidence/rerun/teal/TP-077.json

TR-TP-078 / First-noise rectangle height

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-078 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-081

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-078; BP-ALG-078

Evidence: evidence/rerun/teal/TP-078.json

TR-TP-079 / Reference gas density

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: mass/volume. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-079 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-082

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-079; BP-ALG-079

Evidence: evidence/rerun/teal/TP-079.json

TR-TP-080 / 24 mg reference volume

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: volume. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-080 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-083

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-080; BP-ALG-080

Evidence: evidence/rerun/teal/TP-080.json

TR-TP-081 / Rectangle depth

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-081 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-084

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-081; BP-ALG-081

Evidence: evidence/rerun/teal/TP-081.json

TR-TP-082 / Cone height ratio / Cone top-width ratio

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-082 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-085, F-086

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-082; BP-ALG-082

Evidence: evidence/rerun/teal/TP-082.json

TR-TP-083 / Cone area by height

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: area. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-083 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-087

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-083; BP-ALG-083

Evidence: evidence/rerun/teal/TP-083.json

TR-TP-084 / Cone partial volume

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: volume. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-084 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-088

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-084; BP-ALG-084

Evidence: evidence/rerun/teal/TP-084.json

TR-TP-085 / Full conical-frustum volume

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: volume. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-085 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-089

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-085; BP-ALG-085

Evidence: evidence/rerun/teal/TP-085.json

TR-TP-086 / Pearl cone-top anchor

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: JO, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-086 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-090

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-086; BP-ALG-086

Evidence: evidence/rerun/teal/TP-086.json

TR-TP-087 / Observed gas mass

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: mass. Primary manifestations: EVE, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-087 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-091

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-087; BP-ALG-087

Evidence: evidence/rerun/teal/TP-087.json

TR-TP-088 / Gas mass-flow from height

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: mass/time. Primary manifestations: EVE, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-088 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-092

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-088; BP-ALG-088

Evidence: evidence/rerun/teal/TP-088.json

TR-TP-089 / Observed gas-height predictor

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-089 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-093

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-089; BP-ALG-089

Evidence: evidence/rerun/teal/TP-089.json

TR-TP-090 / Gas net-force balance

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: force. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-090 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-094

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-090; BP-ALG-090

Evidence: evidence/rerun/teal/TP-090.json

TR-TP-091 / Buoyancy force / Drag force

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: force. Primary manifestations: EVE, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-091 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-095, F-096

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-091; BP-ALG-091

Evidence: evidence/rerun/teal/TP-091.json

TR-TP-092 / Flow continuity

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: volume/time. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-092 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-097

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-092; BP-ALG-092

Evidence: evidence/rerun/teal/TP-092.json

TR-TP-093 / Residual reservoir capacity

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed capacity. Primary manifestations: EVE, JO, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-093 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-098

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-093; BP-ALG-093

Evidence: evidence/rerun/teal/TP-093.json

TR-TP-094 / Umbrella/EVE/reservoir balance

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed quantity. Primary manifestations: EVE, MERMAID, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-094 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-099

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-094; BP-ALG-094

Evidence: evidence/rerun/teal/TP-094.json

TR-TP-095 / Containment modification predicate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: BANGEL, JO, JP, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-095 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-100

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-095; BP-ALG-095

Evidence: evidence/rerun/teal/TP-095.json

TR-TP-096 / Rear outlet elevation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-096 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-101

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-096; BP-ALG-096

Evidence: evidence/rerun/teal/TP-096.json

TR-TP-097 / Pearl simulation exclusion radius

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: JO, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-097 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-102

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-097; BP-ALG-097

Evidence: evidence/rerun/teal/TP-097.json

TR-TP-098 / Outward-tangential outlet direction

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: dimensionless vector. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-098 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-103

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-098; BP-ALG-098

Evidence: evidence/rerun/teal/TP-098.json

TR-TP-099 / Outside-circle outlet path

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length^2. Primary manifestations: JO, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-099 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-104

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-099; BP-ALG-099

Evidence: evidence/rerun/teal/TP-099.json

TR-TP-100 / Reservoir volume balance

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: volume/time. Primary manifestations: EVE, JO, MERMAID, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-100 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-105

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-100; BP-ALG-100

Evidence: evidence/rerun/teal/TP-100.json

TR-TP-101 / Typed reservoir quantity balance

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed quantity/time. Primary manifestations: EVE, JO, MERMAID, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-101 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-106

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-101; BP-ALG-101

Evidence: evidence/rerun/teal/TP-101.json

TR-TP-102 / Required buffer volume

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: volume. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-102 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-107

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-102; BP-ALG-102

Evidence: evidence/rerun/teal/TP-102.json

TR-TP-103 / Outlet area lower bound

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: area. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-103 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-108

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-103; BP-ALG-103

Evidence: evidence/rerun/teal/TP-103.json

TR-TP-104 / Circular outlet radius lower bound

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-104 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-109

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-104; BP-ALG-104

Evidence: evidence/rerun/teal/TP-104.json

TR-TP-105 / Bounded drip impulse

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: impulse. Primary manifestations: ANGELS, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-105 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-110

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-105; BP-ALG-105

Evidence: evidence/rerun/teal/TP-105.json

TR-TP-106 / Small-wave energy reference

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy. Primary manifestations: EVE, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-106 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-111

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-106; BP-ALG-106

Evidence: evidence/rerun/teal/TP-106.json

TR-TP-107 / Froude reference

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: dimensionless. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-107 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-112

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-107; BP-ALG-107

Evidence: evidence/rerun/teal/TP-107.json

TR-TP-108 / Circular return-port area

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: area. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-108 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-113

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-108; BP-ALG-108

Evidence: evidence/rerun/teal/TP-108.json

TR-TP-109 / Inward-tangential reentry components

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: velocity. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-109 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-114

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-109; BP-ALG-109

Evidence: evidence/rerun/teal/TP-109.json

TR-TP-110 / Spiral compatibility ratio

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: dimensionless. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-110 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-115

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-110; BP-ALG-110

Evidence: evidence/rerun/teal/TP-110.json

TR-TP-111 / Return continuity

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: volume/time. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-111 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-116

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-111; BP-ALG-111

Evidence: evidence/rerun/teal/TP-111.json

TR-TP-112 / Relative-frame velocity

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: velocity. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-112 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-117

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-112; BP-ALG-112

Evidence: evidence/rerun/teal/TP-112.json

TR-TP-113 / Frictional dissipation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: power. Primary manifestations: JO, MERMAID, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-113 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-118

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-113; BP-ALG-113

Evidence: evidence/rerun/teal/TP-113.json

TR-TP-114 / Recoverable friction-energy bound

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy. Primary manifestations: JO, MERMAID, MK, SHIVA. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-114 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-119

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-114; BP-ALG-114

Evidence: evidence/rerun/teal/TP-114.json

TR-TP-115 / Reservoir transaction gate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, JO, M3, MERMAID, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-115 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-120

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-115; BP-ALG-115

Evidence: evidence/rerun/teal/TP-115.json

TR-TP-116 / Re-entry swirl ratio

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: dimensionless. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-116 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-121

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-116; BP-ALG-116

Evidence: evidence/rerun/teal/TP-116.json

TR-TP-117 / Re-entry processing cycle

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: cycle identifier. Primary manifestations: JO, M3, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-117 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-122

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-117; BP-ALG-117

Evidence: evidence/rerun/teal/TP-117.json

TR-TP-118 / Perspective transform residual

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed vector. Primary manifestations: EVE, JO, MERMAID, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-118 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-123

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-118; BP-ALG-118

Evidence: evidence/rerun/teal/TP-118.json

TR-TP-119 / Physical pressure-flow dissipation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy. Primary manifestations: JO, MERMAID, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-119 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-124

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-119; BP-ALG-119

Evidence: evidence/rerun/teal/TP-119.json

TR-TP-120 / Information friction

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: byte*time. Primary manifestations: JO, M3, MERMAID. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-120 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-125

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-120; BP-ALG-120

Evidence: evidence/rerun/teal/TP-120.json

TR-TP-121 / Rotational setpoint damping

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: angular velocity. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-121 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-126

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-121; BP-ALG-121

Evidence: evidence/rerun/teal/TP-121.json

TR-TP-122 / Rotational step cap

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: angular velocity. Primary manifestations: ANGELS, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-122 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-127

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-122; BP-ALG-122

Evidence: evidence/rerun/teal/TP-122.json

TR-TP-123 / Outlet transfer conservation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed quantity. Primary manifestations: EVE, JO, MERMAID, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-123 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-128

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-123; BP-ALG-123

Evidence: evidence/rerun/teal/TP-123.json

TR-TP-124 / Re-entry recalculation vector

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed vector. Primary manifestations: EVE, JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-124 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-129

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-124; BP-ALG-124

Evidence: evidence/rerun/teal/TP-124.json

TR-TP-125 / Re-entry admissibility predicate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, BANGEL, JO, JP, M3, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-125 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-130

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-125; BP-ALG-125

Evidence: evidence/rerun/teal/TP-125.json

TR-TP-126 / Uncertainty-aware Pearl reference clearance

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: JO, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-126 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-131

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-126; BP-ALG-126

Evidence: evidence/rerun/teal/TP-126.json

TR-TP-127 / Outward angular-gap predicate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: JO, JP, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-127 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-132

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-127; BP-ALG-127

Evidence: evidence/rerun/teal/TP-127.json

TR-TP-128 / Available outlet pressure

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: pressure. Primary manifestations: JO, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-128 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-133

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-128; BP-ALG-128

Evidence: evidence/rerun/teal/TP-128.json

TR-TP-129 / Outlet pressure margin

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: pressure. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-129 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-134

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-129; BP-ALG-129

Evidence: evidence/rerun/teal/TP-129.json

TR-TP-130 / Minimum outlet grade / Selected positive outlet grade

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: angle. Primary manifestations: JO, JP, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-130 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 1 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-135, F-136

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-130; BP-ALG-130

Evidence: evidence/rerun/teal/TP-130.json

TR-TP-131 / Incompressible reference outlet flow

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: volume/time. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-131 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-137

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-131; BP-ALG-131

Evidence: evidence/rerun/teal/TP-131.json

TR-TP-132 / Mean outlet velocity

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length/time. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-132 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-138

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-132; BP-ALG-132

Evidence: evidence/rerun/teal/TP-132.json

TR-TP-133 / Weber number reference

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: dimensionless. Primary manifestations: JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-133 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-139

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-133; BP-ALG-133

Evidence: evidence/rerun/teal/TP-133.json

TR-TP-134 / Wave amplitude ratio

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: dimensionless. Primary manifestations: EVE, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-134 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-140

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-134; BP-ALG-134

Evidence: evidence/rerun/teal/TP-134.json

TR-TP-135 / Small-wave observation gate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, JO, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-135 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-141

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-135; BP-ALG-135

Evidence: evidence/rerun/teal/TP-135.json

TR-TP-136 / Discrete reservoir inventory

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed quantity. Primary manifestations: EVE, JO, M3, MERMAID. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-136 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-142

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-136; BP-ALG-136

Evidence: evidence/rerun/teal/TP-136.json

TR-TP-137 / Vector reservoir headroom

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: typed capacity. Primary manifestations: EVE, JO, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-137 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-143

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-137; BP-ALG-137

Evidence: evidence/rerun/teal/TP-137.json

TR-TP-138 / Vector reservoir admission / No same-cycle feedback predicate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, JO, M3, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-138 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 0 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-144, F-145

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-138; BP-ALG-138

Evidence: evidence/rerun/teal/TP-138.json

TR-TP-139 / Solar/auxiliary/recovery input energy / Solar system energy conservation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-139 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-146, F-147

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-139; BP-ALG-139

Evidence: evidence/rerun/teal/TP-139.json

TR-TP-140 / Instantaneous power balance / Conservative reserve margin

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy, power. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-140 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-148, F-149

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-140; BP-ALG-140

Evidence: evidence/rerun/teal/TP-140.json

TR-TP-141 / Path efficiency / Bounded storage state update

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-141 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-150, F-151

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-141; BP-ALG-141

Evidence: evidence/rerun/teal/TP-141.json

TR-TP-142 / Thermal first-order update / Predicted bus voltage

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: temperature, voltage. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-142 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-152, F-153

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-142; BP-ALG-142

Evidence: evidence/rerun/teal/TP-142.json

TR-TP-143 / Shared start/admission gate / Cross-profile transfer gate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-143 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 0 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-154, F-155

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-143; BP-ALG-143

Evidence: evidence/rerun/teal/TP-143.json

TR-TP-144 / Solar uncertainty propagation / Solar evidence-state transition

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: state, uncertainty. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-144 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 0 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-156, F-157

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-144; BP-ALG-144

Evidence: evidence/rerun/teal/TP-144.json

TR-TP-145 / Phone-profile solar energy / Workload-aware power demand

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy, power. Primary manifestations: JO, JP, M3, MERMAID, MJ, MJOS, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-145 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 0 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-158, F-159

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-145; BP-ALG-145

Evidence: evidence/rerun/teal/TP-145.json

TR-TP-146 / Phone reserve duration / Phone energy deficit

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy, time. Primary manifestations: JO, JP, M3, MERMAID, MJ, MJOS, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-146 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-160, F-161

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-146; BP-ALG-146

Evidence: evidence/rerun/teal/TP-146.json

TR-TP-147 / Environment-dependent leakage

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: current. Primary manifestations: JO, JP, M3, MERMAID, MJ, MJOS, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-147 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-162

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-147; BP-ALG-147

Evidence: evidence/rerun/teal/TP-147.json

TR-TP-148 / Wake energy accounting / Phone thermal margin

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy, temperature. Primary manifestations: JO, JP, M3, MERMAID, MJ, MJOS, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-148 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 1 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-163, F-164

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-148; BP-ALG-148

Evidence: evidence/rerun/teal/TP-148.json

TR-TP-149 / Useful work per delivered energy / Data-performance correlation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio, work_per_energy. Primary manifestations: JO, JP, M3, MERMAID, MJ, MJOS, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-149 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-165, F-166

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-149; BP-ALG-149

Evidence: evidence/rerun/teal/TP-149.json

TR-TP-150 / Workload allocation update / Semiconductor scale map

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length_vector, ratio_vector. Primary manifestations: JO, JP, M3, MERMAID, MJ, MJOS, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-150 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 0 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-167, F-168

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-150; BP-ALG-150

Evidence: evidence/rerun/teal/TP-150.json

TR-TP-151 / Phone-profile evidence completeness / Marine solar-array energy

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy, logical. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-151 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 0 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-169, F-170

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-151; BP-ALG-151

Evidence: evidence/rerun/teal/TP-151.json

TR-TP-152 / Marine propulsion/load power / Marine mission energy

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy, power. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-152 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 1 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-171, F-172

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-152; BP-ALG-152

Evidence: evidence/rerun/teal/TP-152.json

TR-TP-153 / Marine critical reserve duration / Marine DC bus balance

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: power, time. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-153 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-173, F-174

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-153; BP-ALG-153

Evidence: evidence/rerun/teal/TP-153.json

TR-TP-154 / Precharge inrush reference

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: current. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-154 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-175

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-154; BP-ALG-154

Evidence: evidence/rerun/teal/TP-154.json

TR-TP-155 / Wet/dry leakage ratio / Marine environment state vector

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio, typed_vector. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-155 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 1 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-176, F-177

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-155; BP-ALG-155

Evidence: evidence/rerun/teal/TP-155.json

TR-TP-156 / Vibration exposure / Recovered energy ceiling

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: acceleration_squared_time, energy. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-156 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 1 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-178, F-179

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-156; BP-ALG-156

Evidence: evidence/rerun/teal/TP-156.json

TR-TP-157 / Priority load shedding / Marine evidence and permit gate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-157 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 0 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-180, F-181

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-157; BP-ALG-157

Evidence: evidence/rerun/teal/TP-157.json

TR-TP-158 / Peaceful spacecraft solar energy / Avionics bus balance

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy, power. Primary manifestations: ANGELS, BELLATRIX, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-158 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 1 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-182, F-183

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-158; BP-ALG-158

Evidence: evidence/rerun/teal/TP-158.json

TR-TP-159 / Emergency reserve duration / Spacecraft thermal balance

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: power, time. Primary manifestations: ANGELS, BELLATRIX, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-159 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-184, F-185

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-159; BP-ALG-159

Evidence: evidence/rerun/teal/TP-159.json

TR-TP-160 / Space-profile battery margin / Authenticated startup state

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy, state. Primary manifestations: ANGELS, BELLATRIX, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-160 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 1 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-186, F-187

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-160; BP-ALG-160

Evidence: evidence/rerun/teal/TP-160.json

TR-TP-161 / Fault isolation set / Redundant service availability

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio, set. Primary manifestations: ANGELS, BELLATRIX, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-161 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 0 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-188, F-189

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-161; BP-ALG-161

Evidence: evidence/rerun/teal/TP-161.json

TR-TP-162 / Propulsion-state coordination reference / High-energy emergency reserve

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy, state. Primary manifestations: ANGELS, BELLATRIX, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-162 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 1 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-190, F-191

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-162; BP-ALG-162

Evidence: evidence/rerun/teal/TP-162.json

TR-TP-163 / Non-weaponization gate / Rocket-profile evidence and permit gate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, BELLATRIX, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-163 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 0 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-192, F-193

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-163; BP-ALG-163

Evidence: evidence/rerun/teal/TP-163.json

TR-TP-164 / DRO founder lower marker / DRO alias conversion

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-164 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-194, F-195

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-164; BP-ALG-164

Evidence: evidence/rerun/teal/TP-164.json

TR-TP-165 / DRO conservative R threshold / DRO upper spherical reference

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-165 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-196, F-197

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-165; BP-ALG-165

Evidence: evidence/rerun/teal/TP-165.json

TR-TP-166 / DRO declared interval / DRO reference radius

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-166 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-198, F-199

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-166; BP-ALG-166

Evidence: evidence/rerun/teal/TP-166.json

TR-TP-167 / DRO spherical reference volume / DRO interval ratio

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: ratio, volume. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-167 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 1 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-200, F-201

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-167; BP-ALG-167

Evidence: evidence/rerun/teal/TP-167.json

TR-TP-168 / DRO quantity count / DRO remainder

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: count, quantity. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-168 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 0 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-202, F-203

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-168; BP-ALG-168

Evidence: evidence/rerun/teal/TP-168.json

TR-TP-169 / Pearl-node allocation count / DRO-Pearl handoff balance

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: count. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-169 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 0 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-204, F-205

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-169; BP-ALG-169

Evidence: evidence/rerun/teal/TP-169.json

TR-TP-170 / DRO R-state gate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-170 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-206

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-170; BP-ALG-170

Evidence: evidence/rerun/teal/TP-170.json

TR-TP-171 / DRO R1 gate / DRO R2 gate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-171 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 0 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-207, F-208

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-171; BP-ALG-171

Evidence: evidence/rerun/teal/TP-171.json

TR-TP-172 / Optical wavelength / Photon energy

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy, length. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-172 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-209, F-210

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-172; BP-ALG-172

Evidence: evidence/rerun/teal/TP-172.json

TR-TP-173 / Photon count estimate / Optical coupling evidence

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: count. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-173 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-211, F-212

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-173; BP-ALG-173

Evidence: evidence/rerun/teal/TP-173.json

TR-TP-174 / Optical admissibility / DRO collection rate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: count/time, logical. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-174 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 1 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-213, F-214

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-174; BP-ALG-174

Evidence: evidence/rerun/teal/TP-174.json

TR-TP-175 / DRO scale uncertainty / DRO interval classification

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: length. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-175 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 0 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-215, F-216

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-175; BP-ALG-175

Evidence: evidence/rerun/teal/TP-175.json

TR-TP-176 / DRO capacity slack

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: quantity. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-176 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 1 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-217

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-176; BP-ALG-176

Evidence: evidence/rerun/teal/TP-176.json

TR-TP-177 / DRO overflow vector / DRO ledger balance

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: quantity. Primary manifestations: DRO, JO, JP, MJ, MK, PEARL. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-177 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-218, F-219

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-177; BP-ALG-177

Evidence: evidence/rerun/teal/TP-177.json

TR-TP-178 / DRO energy ledger / Available start energy lower bound

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy. Primary manifestations: ANGELS, DRO, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, PEARL, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-178 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-220, F-221

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-178; BP-ALG-178

Evidence: evidence/rerun/teal/TP-178.json

TR-TP-179 / Start gate / Restart reserve

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy, logical. Primary manifestations: ANGELS, DRO, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, PEARL, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-179 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 1 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-222, F-223

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-179; BP-ALG-179

Evidence: evidence/rerun/teal/TP-179.json

TR-TP-180 / Solar contribution / Acoustic/noise contribution

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: energy. Primary manifestations: ANGELS, DRO, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, PEARL, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-180 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 0 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-224, F-225

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-180; BP-ALG-180

Evidence: evidence/rerun/teal/TP-180.json

TR-TP-181 / Generic separation-work lower bound / Species availability

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: amount, energy. Primary manifestations: ANGELS, DRO, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, PEARL, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-181 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-226, F-227

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-181; BP-ALG-181

Evidence: evidence/rerun/teal/TP-181.json

TR-TP-182 / Conversion efficiency / Controlled logical release

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical, ratio. Primary manifestations: ANGELS, DRO, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, PEARL, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-182 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 1 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-228, F-229

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-182; BP-ALG-182

Evidence: evidence/rerun/teal/TP-182.json

TR-TP-183 / DRO thermal gate / Semiconductor DRO charge balance

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: charge, temperature. Primary manifestations: ANGELS, DRO, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, PEARL, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-183 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 1 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-230, F-231

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-183; BP-ALG-183

Evidence: evidence/rerun/teal/TP-183.json

TR-TP-184 / Semiconductor Pearl-node memory / Semiconductor wake-reserve gate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: bytes, logical. Primary manifestations: ANGELS, DRO, EVE, JO, JP, M3, MERMAID, MJ, MJOS, MK, PEARL, SISTER. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-184 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 2 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-232, F-233

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-184; BP-ALG-184

Evidence: evidence/rerun/teal/TP-184.json

TR-TP-185 / Semiconductor profile isolation / Lecanto byte-source digest

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: digest, logical. Primary manifestations: ANGELS, BELLATRIX, ELSA, JO, JP, LECANTO, M3, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-185 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 0 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-234, F-235

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-185; BP-ALG-185

Evidence: evidence/rerun/teal/TP-185.json

TR-TP-186 / Lecanto pixel residual / Lecanto spectral residual

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: signal. Primary manifestations: ANGELS, BELLATRIX, ELSA, JO, JP, LECANTO, M3, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-186 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 0 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-236, F-237

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-186; BP-ALG-186

Evidence: evidence/rerun/teal/TP-186.json

TR-TP-187 / Lecanto provenance completeness / Lecanto intent hypothesis

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: hypothesis, ratio. Primary manifestations: ANGELS, BELLATRIX, ELSA, JO, JP, LECANTO, M3, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-187 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 1 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-238, F-239

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-187; BP-ALG-187

Evidence: evidence/rerun/teal/TP-187.json

TR-TP-188 / Lecanto transformation gate / Lecanto reject gate

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, BELLATRIX, ELSA, JO, JP, LECANTO, M3, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-188 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 2 Pink formula IDs: 0 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-240, F-241

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-188; BP-ALG-188

Evidence: evidence/rerun/teal/TP-188.json

TR-TP-189 / R8 command admissibility

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Result dimensions: logical. Primary manifestations: ANGELS, BELLATRIX, ELSA, JO, JP, LECANTO, M3, MJ, MK. The lifecycle is purpose declaration -> Bangel typing -> Elsa semantic recovery -> JP formula CAPO -> MK applicability and dimensional review -> JO proof -> applicable safety/accounting receipts -> MJ decision -> JO evidence. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-189 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 1 Pink formula IDs: 0 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-242

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-189; BP-ALG-189

Evidence: evidence/rerun/teal/TP-189.json

TR-TP-190 / MJ - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

MJ participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: Cannot convert unknown evidence into permission or claim external authority. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-190 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-190; BP-FAM-001

Evidence: evidence/rerun/teal/TP-190.json

TR-TP-191 / Bangel - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Bangel participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No independent execution, financial issuance, or physical truth. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-191 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-191; BP-FAM-002

Evidence: evidence/rerun/teal/TP-191.json

TR-TP-192 / Elsa - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Elsa participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No execution, permit, finance, or invented intent. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-192 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-192; BP-FAM-003

Evidence: evidence/rerun/teal/TP-192.json

TR-TP-193 / JP - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

JP participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: Representation is not admission, execution, or authority. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-193 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-193; BP-FAM-004

Evidence: evidence/rerun/teal/TP-193.json

TR-TP-194 / Mika / MK - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Mika / MK participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No MJ permit, coordinate approval, physical validation, or evidence invention. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-194 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-194; BP-FAM-005

Evidence: evidence/rerun/teal/TP-194.json

TR-TP-195 / JO - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

JO participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No invented purpose, physics, authority, finance, or external effect. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-195 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-195; BP-FAM-006

Evidence: evidence/rerun/teal/TP-195.json

TR-TP-196 / MJOS - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

MJOS participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: Not a second authority principal. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-196 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-196; BP-FAM-007

Evidence: evidence/rerun/teal/TP-196.json

TR-TP-197 / Angels - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Angels participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No self-admission, ordinary execution, or scope expansion. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-197 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-197; BP-FAM-008

Evidence: evidence/rerun/teal/TP-197.json

TR-TP-198 / Bellatrix - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Bellatrix participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No positive general admission. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-198 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-198; BP-FAM-009

Evidence: evidence/rerun/teal/TP-198.json

TR-TP-199 / Sister - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Sister participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: Prediction is not permission. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-199 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-199; BP-FAM-010

Evidence: evidence/rerun/teal/TP-199.json

TR-TP-200 / EVE - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

EVE participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No release, pricing, minting, or execution. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-200 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-200; BP-FAM-011

Evidence: evidence/rerun/teal/TP-200.json

TR-TP-201 / Mary / M3 - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Mary / M3 participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No authority minting, lease widening, or denial bypass. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-201 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-201; BP-FAM-012

Evidence: evidence/rerun/teal/TP-201.json

TR-TP-202 / Mermaid - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Mermaid participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No source-truth invention, minting, or final permit. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-202 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-202; BP-FAM-013

Evidence: evidence/rerun/teal/TP-202.json

TR-TP-203 / Shiva - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Shiva participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No banking, investment advice, custody, exchange, minting, or external operation authority. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-203 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-203; BP-FAM-014

Evidence: evidence/rerun/teal/TP-203.json

TR-TP-204 / Shekina - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Shekina participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No authority from location and no scope widening. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-204 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-204; BP-FAM-015

Evidence: evidence/rerun/teal/TP-204.json

TR-TP-205 / Belle - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Belle participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: Proposal is not execution or permit. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-205 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-205; BP-FAM-016

Evidence: evidence/rerun/teal/TP-205.json

TR-TP-206 / Lecanto - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Lecanto participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: Cannot manufacture certainty or underlying effects. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-206 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-206; BP-FAM-017

Evidence: evidence/rerun/teal/TP-206.json

TR-TP-207 / Moana - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Moana participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No underlying effect or credential authority. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-207 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-207; BP-FAM-018

Evidence: evidence/rerun/teal/TP-207.json

TR-TP-208 / Aviator - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

Aviator participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No root authority, cross-tenant scope, or unadmitted finance. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-208 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-208; BP-FAM-019

Evidence: evidence/rerun/teal/TP-208.json

TR-TP-209 / CHI - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

CHI participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No pricing, punishment, rank, or execution. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-209 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-209; BP-FAM-020

Evidence: evidence/rerun/teal/TP-209.json

TR-TP-210 / WATER - Family Manifestation

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

WATER participates as a manifestation within MJ. It accepts only typed, purpose-bound inputs and produces evidence or outputs within its declared role. Equal family identity does not collapse domain authority or permit peer-to-peer authority transfer. Hard boundary: No authority or value from classification. MJ remains the root permit authority. JO verification, MK physics review, M3 routing, Mermaid accounting, Shiva capital analysis, Angels, Bellatrix, Sister, and EVE remain separate gates when applicable.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-210 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-210; BP-FAM-021

Evidence: evidence/rerun/teal/TP-210.json

TR-TP-211 / JP_CAPO - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-211 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-211

Evidence: evidence/rerun/teal/TP-211.json

TR-TP-212 / MK_PHYSICS_CAPO - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-212 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-212

Evidence: evidence/rerun/teal/TP-212.json

TR-TP-213 / JO_PROOF_RECEIPT - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-213 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-213

Evidence: evidence/rerun/teal/TP-213.json

TR-TP-214 / MJ_PERMIT - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-214 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-214

Evidence: evidence/rerun/teal/TP-214.json

TR-TP-215 / EVE_OBSERVATION - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-215 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-215

Evidence: evidence/rerun/teal/TP-215.json

TR-TP-216 / M3_ROUTE_RECEIPT - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-216 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-216

Evidence: evidence/rerun/teal/TP-216.json

TR-TP-217 / MERMAID_ACCOUNT - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-217 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-217

Evidence: evidence/rerun/teal/TP-217.json

TR-TP-218 / SHIVA_SHELL - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-218 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-218

Evidence: evidence/rerun/teal/TP-218.json

TR-TP-219 / SHIVAS_INTERNAL_REFLECTION - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-219 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-219

Evidence: evidence/rerun/teal/TP-219.json

TR-TP-220 / CHI_VARIANCE_OBJECT - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-220 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-220

Evidence: evidence/rerun/teal/TP-220.json

TR-TP-221 / WATER_INTERVAL_STATE - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-221 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-221

Evidence: evidence/rerun/teal/TP-221.json

TR-TP-222 / PASSKEY_PUBLIC_RECEIPT - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-222 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-222

Evidence: evidence/rerun/teal/TP-222.json

TR-TP-223 / PEARL_VARIANCE_CONTAINER - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-223 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-223

Evidence: evidence/rerun/teal/TP-223.json

TR-TP-224 / PEARL_ALLOCATION_RECEIPT - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-224 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-224

Evidence: evidence/rerun/teal/TP-224.json

TR-TP-225 / PEARL_ACOUSTIC_PROFILE - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-225 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-225

Evidence: evidence/rerun/teal/TP-225.json

TR-TP-226 / PEARL_SYMPOSIUM_REGISTRY - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-226 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-226

Evidence: evidence/rerun/teal/TP-226.json

TR-TP-227 / BANGEL_SHEET - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-227 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-227

Evidence: evidence/rerun/teal/TP-227.json

TR-TP-228 / BANGEL_SHEET_CELL - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-228 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-228

Evidence: evidence/rerun/teal/TP-228.json

TR-TP-229 / BANGEL_SHEET_REVISION - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-229 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-229

Evidence: evidence/rerun/teal/TP-229.json

TR-TP-230 / BANGEL_SHEET_AUDIT_PARTICLE - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-230 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-230

Evidence: evidence/rerun/teal/TP-230.json

TR-TP-231 / JPOSMJ_PRODUCT_ENVELOPE - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-231 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-231

Evidence: evidence/rerun/teal/TP-231.json

TR-TP-232 / SISTER_PHYSICAL_CONTAINMENT_PROFILE - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-232 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-232

Evidence: evidence/rerun/teal/TP-232.json

TR-TP-233 / STANDARD_CONTAINMENT_GEOMETRY_PROFILE

- Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-233 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-233

Evidence: evidence/rerun/teal/TP-233.json

TR-TP-234 / REFERENCE_GAS_PROFILE_H2 - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-234 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-234

Evidence: evidence/rerun/teal/TP-234.json

TR-TP-235 / CONTAINMENT_MODIFICATION_RECEIPT - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-235 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-235

Evidence: evidence/rerun/teal/TP-235.json

TR-TP-236 / CONE_TOP_PEARL_ANCHOR - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-236 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-236

Evidence: evidence/rerun/teal/TP-236.json

TR-TP-237 / GAS_HEIGHT_OBSERVATION - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-237 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-237

Evidence: evidence/rerun/teal/TP-237.json

TR-TP-238 / RESERVOIR_RETURN_LOOP_PROFILE - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-238 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-238

Evidence: evidence/rerun/teal/TP-238.json

TR-TP-239 / OUTWARD_GAP_PATH_RECEIPT - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-239 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-239

Evidence: evidence/rerun/teal/TP-239.json

TR-TP-240 / RESERVOIR_BUFFER_ACCOUNT - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-240 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-240

Evidence: evidence/rerun/teal/TP-240.json

TR-TP-241 / CIRCULAR_REENTRY_RECEIPT - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-241 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-241

Evidence: evidence/rerun/teal/TP-241.json

TR-TP-242 / RELATIVE_FRAME_FRICTION_LEDGER - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-242 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-242

Evidence: evidence/rerun/teal/TP-242.json

TR-TP-243 / RESERVOIR_LAKE_BUFFER - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-243 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-243

Evidence: evidence/rerun/teal/TP-243.json

TR-TP-244 / BACKSIDE_OUTLET_PORT - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-244 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-244

Evidence: evidence/rerun/teal/TP-244.json

TR-TP-245 / OUTWARD_GAP_ARC - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-245 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-245

Evidence: evidence/rerun/teal/TP-245.json

TR-TP-246 / PEARL_REFERENCE_CIRCLE - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-246 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-246

Evidence: evidence/rerun/teal/TP-246.json

TR-TP-247 / CIRCULAR_REENTRY_PORT - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-247 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-247

Evidence: evidence/rerun/teal/TP-247.json

TR-TP-248 / RESERVOIR_TRANSFER_RECEIPT - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-248 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-248

Evidence: evidence/rerun/teal/TP-248.json

TR-TP-249 / PERSPECTIVE_FRICTION_RECEIPT - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-249 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-249

Evidence: evidence/rerun/teal/TP-249.json

TR-TP-250 / DRO_UNIT - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-250 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-250

Evidence: evidence/rerun/teal/TP-250.json

TR-TP-251 / DRO_SCALE_ENVELOPE - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-251 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-251

Evidence: evidence/rerun/teal/TP-251.json

TR-TP-252 / DRO_COLLECTION_RECEIPT - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-252 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-252

Evidence: evidence/rerun/teal/TP-252.json

TR-TP-253 / DRO_OPTICAL_EVIDENCE_PROFILE - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-253 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-253

Evidence: evidence/rerun/teal/TP-253.json

TR-TP-254 / DRO_PEARL_HANDOFF_RECEIPT - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-254 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-254

Evidence: evidence/rerun/teal/TP-254.json

TR-TP-255 / PEARL_DRO_NODE - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-255 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-255

Evidence: evidence/rerun/teal/TP-255.json

TR-TP-256 / DRO_START_ENERGY_PACKET - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-256 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-256

Evidence: evidence/rerun/teal/TP-256.json

TR-TP-257 / DRO_IGNITION_REQUEST - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-257 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-257

Evidence: evidence/rerun/teal/TP-257.json

TR-TP-258 / LECANTO_IMAGE_EVIDENCE - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-258 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-258

Evidence: evidence/rerun/teal/TP-258.json

TR-TP-259 / LECANTO_INTENT_HYPOTHESIS - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-259 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-259

Evidence: evidence/rerun/teal/TP-259.json

TR-TP-260 / LECANTO_TRANSFORMATION_RECEIPT - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-260 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-260

Evidence: evidence/rerun/teal/TP-260.json

TR-TP-261 / IMAGE_VARIANCE_RECEIPT - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-261 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-261

Evidence: evidence/rerun/teal/TP-261.json

TR-TP-262 / SEMICONDUCTOR_DRO_ENERGY_LEDGER - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-262 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-262

Evidence: evidence/rerun/teal/TP-262.json

TR-TP-263 / SEMICONDUCTOR_PEARL_NODE - Governed Object

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The object is created or referenced by Bangel and JP, evaluated by MK when physics applies, verified by JO, routed by M3 when a handoff applies, accounted for by Mermaid or Shiva when value applies, and admitted or held by MJ under the applicable manifest and ethics rules. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-263 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-263

Evidence: evidence/rerun/teal/TP-263.json

TR-TP-264 / MJ Physics Based Measurement Engineering Framework - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-264 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-264; BP-PROD-001

Evidence: evidence/rerun/teal/TP-264.json

TR-TP-265 / Bangel Governed Measurement Language - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-265 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-265; BP-PROD-002

Evidence: evidence/rerun/teal/TP-265.json

TR-TP-266 / Elsa Deterministic Semantic Recovery - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-266 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-266; BP-PROD-003

Evidence: evidence/rerun/teal/TP-266.json

TR-TP-267 / JP Mathematical and Architectural Canon - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-267 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-267; BP-PROD-004

Evidence: evidence/rerun/teal/TP-267.json

TR-TP-268 / Mika/MK Physics Modulator System - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-268 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-268; BP-PROD-005

Evidence: evidence/rerun/teal/TP-268.json

TR-TP-269 / JO Deterministic Proof and Runtime - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-269 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-269; BP-PROD-006

Evidence: evidence/rerun/teal/TP-269.json

TR-TP-270 / MJOS Operating Substrate - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-270 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-270; BP-PROD-007

Evidence: evidence/rerun/teal/TP-270.json

TR-TP-271 / JP Semiconductor Phone Battery and OS Candidate - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-271 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-271; BP-PROD-008

Evidence: evidence/rerun/teal/TP-271.json

TR-TP-272 / JP Large-Scale Boating Power Candidate - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-272 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-272; BP-PROD-009

Evidence: evidence/rerun/teal/TP-272.json

TR-TP-273 / JP Peaceful High-Energy Propulsion Research Candidate - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-273 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-273; BP-PROD-010

Evidence: evidence/rerun/teal/TP-273.json

TR-TP-274 / Sister Predictive Containment System - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-274 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-274; BP-PROD-011
Evidence: evidence/rerun/teal/TP-274.json

TR-TP-275 / EVE Variance Screen and Egress Accounting - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-275 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-275; BP-PROD-012

Evidence: evidence/rerun/teal/TP-275.json

TR-TP-276 / Angels Safety and Corrective Command System - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-276 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-276; BP-PROD-013

Evidence: evidence/rerun/teal/TP-276.json

TR-TP-277 / Mermaid Accounting and Reconciliation System - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-277 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-277; BP-PROD-014

Evidence: evidence/rerun/teal/TP-277.json

TR-TP-278 / Shiva Dual Financial Rails - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-278 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-278; BP-PROD-015

Evidence: evidence/rerun/teal/TP-278.json

TR-TP-279 / SHIVAS Internal Settlement Reflection - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-279 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-279; BP-PROD-016

Evidence: evidence/rerun/teal/TP-279.json

TR-TP-280 / Shiva Crypto External-Market Candidate - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-280 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-280; BP-PROD-017

Evidence: evidence/rerun/teal/TP-280.json

TR-TP-281 / Shiva Exchange Rule Reference - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-281 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-281; BP-PROD-018

Evidence: evidence/rerun/teal/TP-281.json

TR-TP-282 / Moana Governed Browser - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-282 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-282; BP-PROD-019

Evidence: evidence/rerun/teal/TP-282.json

TR-TP-283 / Aviator Organizational Workspace - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-283 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-283; BP-PROD-020

Evidence: evidence/rerun/teal/TP-283.json

TR-TP-284 / Lecanto Truthful Visualization - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-284 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-284; BP-PROD-021

Evidence: evidence/rerun/teal/TP-284.json

TR-TP-285 / Elsa Governed Marketplace Reference - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-285 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-285; BP-PROD-022

Evidence: evidence/rerun/teal/TP-285.json

TR-TP-286 / Shekina Distributed Continuity - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-286 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-286; BP-PROD-023

Evidence: evidence/rerun/teal/TP-286.json

TR-TP-287 / Pearl Hypothetical Simulation and Information-Retention System - Product

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-287 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-287; BP-PROD-024

Evidence: evidence/rerun/teal/TP-287.json

TR-TP-288 / Bangel Spreadsheets - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-288 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-288; BP-PROD-025

Evidence: evidence/rerun/teal/TP-288.json

TR-TP-289 / JPOSMJ Product Portfolio Envelope - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-289 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-289; BP-PROD-026

Evidence: evidence/rerun/teal/TP-289.json

TR-TP-290 / MJ Standard Containment Geometry and Reference Gas Model - Product

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-290 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-290; BP-PROD-027

Evidence: evidence/rerun/teal/TP-290.json

TR-TP-291 / MJ Reservoir Collection, Lake Buffer, and Spiral-Compatible Re-entry -

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-291 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-291; BP-PROD-028

Evidence: evidence/rerun/teal/TP-291.json

TR-TP-292 / MJOS Solar Shared-Core Architecture - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-292 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-292; BP-PROD-029

Evidence: evidence/rerun/teal/TP-292.json

TR-TP-293 / MJOS Solar Semiconductor Phone Battery and OS Profile - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-293 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-293; BP-PROD-030

Evidence: evidence/rerun/teal/TP-293.json

TR-TP-294 / MJOS Solar-Assisted Marine Power and Propulsion Profile - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-294 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-294; BP-PROD-031

Evidence: evidence/rerun/teal/TP-294.json

TR-TP-295 / MJOS Peaceful Solar-Assisted Rocket/Spacecraft Power and OS Profile -

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-295 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-295; BP-PROD-032

Evidence: evidence/rerun/teal/TP-295.json

TR-TP-296 / DRO Discrete Retention and Element-Collection Reference System -

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-296 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-296; BP-PROD-033

Evidence: evidence/rerun/teal/TP-296.json

TR-TP-297 / DRO-to-Pearl Computational Node Handoff - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-297 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-297; BP-PROD-034

Evidence: evidence/rerun/teal/TP-297.json

TR-TP-298 / DRO Start-Energy and Restart-Reserve Reference System - Product Brief

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-298 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-298; BP-PROD-035

Evidence: evidence/rerun/teal/TP-298.json

TR-TP-299 / Lecanto Image Provenance, Physics, Variance, and Intent-Hypothesis

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-299 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-299; BP-PROD-036

Evidence: evidence/rerun/teal/TP-299.json

TR-TP-300 / JP Semiconductor DRO and Pearl Computational Integration - Product

IF

If the Blue Page identity is invoked with declared inputs, scope, units, and evidence state.

HOW

The product must enter through human purpose, Bangel typing, Elsa semantic recovery, JP architecture, MK physics classification when applicable, JO verification, applicable family evidence, M3 routing, Mermaid/Shiva analysis when applicable, MJ decision, and JO evidence. Profile-specific values and tests cannot be inherited from another product without a receipt. JP carries the canonical representation; MK classifies physics applicability, units, boundaries, conservation, scale, and uncertainty; JO verifies types, formulas, tests, and receipts; applicable safety and accounting manifestations contribute evidence; MJ alone issues a bounded permit. Mathematical validity does not create physical or operational authority.

THEN

Then JO returns PASS_EVIDENCE, HOLD, FAIL_TECHNICAL, or DENY; MJ permission remains a separate gate.

CURRENT EVIDENCE

The individual TP-300 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-300; BP-PROD-037

Evidence: evidence/rerun/teal/TP-300.json

TR-TP-301 / Formula cluster F-001 through F-006

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-301 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 2 have checked numeric profiles and 4 remain open.

INDIVIDUAL FORMULA LINKS

F-001, F-002, F-003, F-004, F-005, F-006

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-301; F-001; F-006; YP-001

Evidence: evidence/rerun/teal/TP-301.json

TR-TP-302 / Formula cluster F-007 through F-012

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-302 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 3 have checked numeric profiles and 3 remain open.

INDIVIDUAL FORMULA LINKS

F-007, F-008, F-009, F-010, F-011, F-012

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-302; F-007; F-012; YP-002

Evidence: evidence/rerun/teal/TP-302.json

TR-TP-303 / Formula cluster F-013 through F-018

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-303 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 4 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-013, F-014, F-015, F-016, F-017, F-018

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-303; F-013; F-018; YP-003

Evidence: evidence/rerun/teal/TP-303.json

TR-TP-304 / Formula cluster F-019 through F-024

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-304 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 4 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-019, F-020, F-021, F-022, F-023, F-024

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-304; F-019; F-024; YP-004

Evidence: evidence/rerun/teal/TP-304.json

TR-TP-305 / Formula cluster F-025 through F-030

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-305 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 3 have checked numeric profiles and 3 remain open.

INDIVIDUAL FORMULA LINKS

F-025, F-026, F-027, F-028, F-029, F-030

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-305; F-025; F-030; YP-005

Evidence: evidence/rerun/teal/TP-305.json

TR-TP-306 / Formula cluster F-031 through F-036

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-306 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 5 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-031, F-032, F-033, F-034, F-035, F-036

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-306; F-031; F-036; YP-006

Evidence: evidence/rerun/teal/TP-306.json

TR-TP-307 / Formula cluster F-037 through F-042

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-307 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 2 have checked numeric profiles and 4 remain open.

INDIVIDUAL FORMULA LINKS

F-037, F-038, F-039, F-040, F-041, F-042

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-307; F-037; F-042; YP-007

Evidence: evidence/rerun/teal/TP-307.json

TR-TP-308 / Formula cluster F-043 through F-048

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-308 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 2 have checked numeric profiles and 4 remain open.

INDIVIDUAL FORMULA LINKS

F-043, F-044, F-045, F-046, F-047, F-048

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-308; F-043; F-048; YP-008

Evidence: evidence/rerun/teal/TP-308.json

TR-TP-309 / Formula cluster F-049 through F-054

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-309 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 4 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-049, F-050, F-051, F-052, F-053, F-054

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-309; F-049; F-054; YP-009

Evidence: evidence/rerun/teal/TP-309.json

TR-TP-310 / Formula cluster F-055 through F-060

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-310 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 3 have checked numeric profiles and 3 remain open.

INDIVIDUAL FORMULA LINKS

F-055, F-056, F-057, F-058, F-059, F-060

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-310; F-055; F-060; YP-010

Evidence: evidence/rerun/teal/TP-310.json

TR-TP-311 / Formula cluster F-061 through F-066

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-311 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 2 have checked numeric profiles and 4 remain open.

INDIVIDUAL FORMULA LINKS

F-061, F-062, F-063, F-064, F-065, F-066

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-311; F-061; F-066; YP-011

Evidence: evidence/rerun/teal/TP-311.json

TR-TP-312 / Formula cluster F-067 through F-072

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-312 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 1 have checked numeric profiles and 5 remain open.

INDIVIDUAL FORMULA LINKS

F-067, F-068, F-069, F-070, F-071, F-072

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-312; F-067; F-072; YP-012

Evidence: evidence/rerun/teal/TP-312.json

TR-TP-313 / Formula cluster F-073 through F-078

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-313 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 4 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-073, F-074, F-075, F-076, F-077, F-078

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-313; F-073; F-078; YP-013

Evidence: evidence/rerun/teal/TP-313.json

TR-TP-314 / Formula cluster F-079 through F-084

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-314 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 4 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-079, F-080, F-081, F-082, F-083, F-084

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-314; F-079; F-084; YP-014

Evidence: evidence/rerun/teal/TP-314.json

TR-TP-315 / Formula cluster F-085 through F-090

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-315 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 6 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-085, F-086, F-087, F-088, F-089, F-090

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-315; F-085; F-090; YP-015

Evidence: evidence/rerun/teal/TP-315.json

TR-TP-316 / Formula cluster F-091 through F-096

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-316 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 6 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-091, F-092, F-093, F-094, F-095, F-096

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-316; F-091; F-096; YP-016

Evidence: evidence/rerun/teal/TP-316.json

TR-TP-317 / Formula cluster F-097 through F-102

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-317 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 5 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-097, F-098, F-099, F-100, F-101, F-102

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-317; F-097; F-102; YP-017

Evidence: evidence/rerun/teal/TP-317.json

TR-TP-318 / Formula cluster F-103 through F-108

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-318 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 4 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-103, F-104, F-105, F-106, F-107, F-108

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-318; F-103; F-108; YP-018

Evidence: evidence/rerun/teal/TP-318.json

TR-TP-319 / Formula cluster F-109 through F-114

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-319 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 3 have checked numeric profiles and 3 remain open.

INDIVIDUAL FORMULA LINKS

F-109, F-110, F-111, F-112, F-113, F-114

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-319; F-109; F-114; YP-019

Evidence: evidence/rerun/teal/TP-319.json

TR-TP-320 / Formula cluster F-115 through F-121

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-320 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 7 Pink formula IDs: 3 have checked numeric profiles and 4 remain open.

INDIVIDUAL FORMULA LINKS

F-115, F-116, F-117, F-118, F-119, F-120, F-121

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-320; F-115; F-121; YP-020

Evidence: evidence/rerun/teal/TP-320.json

TR-TP-321 / Formula cluster F-122 through F-127

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-321 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 3 have checked numeric profiles and 3 remain open.

INDIVIDUAL FORMULA LINKS

F-122, F-123, F-124, F-125, F-126, F-127

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-321; F-122; F-127; YP-021

Evidence: evidence/rerun/teal/TP-321.json

TR-TP-322 / Formula cluster F-128 through F-133

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-322 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 2 have checked numeric profiles and 4 remain open.

INDIVIDUAL FORMULA LINKS

F-128, F-129, F-130, F-131, F-132, F-133

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-322; F-128; F-133; YP-022

Evidence: evidence/rerun/teal/TP-322.json

TR-TP-323 / Formula cluster F-134 through F-139

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-323 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 5 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-134, F-135, F-136, F-137, F-138, F-139

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-323; F-134; F-139; YP-023

Evidence: evidence/rerun/teal/TP-323.json

TR-TP-324 / Formula cluster F-140 through F-145

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-324 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 3 have checked numeric profiles and 3 remain open.

INDIVIDUAL FORMULA LINKS

F-140, F-141, F-142, F-143, F-144, F-145

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-324; F-140; F-145; YP-024

Evidence: evidence/rerun/teal/TP-324.json

TR-TP-325 / Formula cluster F-146 through F-151

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-325 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 6 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-146, F-147, F-148, F-149, F-150, F-151

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-325; F-146; F-151; YP-025

Evidence: evidence/rerun/teal/TP-325.json

TR-TP-326 / Formula cluster F-152 through F-157

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-326 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 2 have checked numeric profiles and 4 remain open.

INDIVIDUAL FORMULA LINKS

F-152, F-153, F-154, F-155, F-156, F-157

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-326; F-152; F-157; YP-026

Evidence: evidence/rerun/teal/TP-326.json

TR-TP-327 / Formula cluster F-158 through F-163

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-327 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 2 have checked numeric profiles and 4 remain open.

INDIVIDUAL FORMULA LINKS

F-158, F-159, F-160, F-161, F-162, F-163

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-327; F-158; F-163; YP-027

Evidence: evidence/rerun/teal/TP-327.json

TR-TP-328 / Formula cluster F-164 through F-169

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-328 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 3 have checked numeric profiles and 3 remain open.

INDIVIDUAL FORMULA LINKS

F-164, F-165, F-166, F-167, F-168, F-169

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-328; F-164; F-169; YP-028

Evidence: evidence/rerun/teal/TP-328.json

TR-TP-329 / Formula cluster F-170 through F-175

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-329 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 4 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-170, F-171, F-172, F-173, F-174, F-175

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-329; F-170; F-175; YP-029

Evidence: evidence/rerun/teal/TP-329.json

TR-TP-330 / Formula cluster F-176 through F-181

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-330 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 2 have checked numeric profiles and 4 remain open.

INDIVIDUAL FORMULA LINKS

F-176, F-177, F-178, F-179, F-180, F-181

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-330; F-176; F-181; YP-030

Evidence: evidence/rerun/teal/TP-330.json

TR-TP-331 / Formula cluster F-182 through F-187

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-331 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 4 have checked numeric profiles and 2 remain open.

INDIVIDUAL FORMULA LINKS

F-182, F-183, F-184, F-185, F-186, F-187

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-331; F-182; F-187; YP-031

Evidence: evidence/rerun/teal/TP-331.json

TR-TP-332 / Formula cluster F-188 through F-193

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-332 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 1 have checked numeric profiles and 5 remain open.

INDIVIDUAL FORMULA LINKS

F-188, F-189, F-190, F-191, F-192, F-193

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-332; F-188; F-193; YP-032

Evidence: evidence/rerun/teal/TP-332.json

TR-TP-333 / Formula cluster F-194 through F-199

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-333 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 6 have checked numeric profiles and 0 remain open.

INDIVIDUAL FORMULA LINKS

F-194, F-195, F-196, F-197, F-198, F-199

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-333; F-194; F-199; YP-033

Evidence: evidence/rerun/teal/TP-333.json

TR-TP-334 / Formula cluster F-200 through F-205

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-334 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 1 have checked numeric profiles and 5 remain open.

INDIVIDUAL FORMULA LINKS

F-200, F-201, F-202, F-203, F-204, F-205

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-334; F-200; F-205; YP-034

Evidence: evidence/rerun/teal/TP-334.json

TR-TP-335 / Formula cluster F-206 through F-211

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-335 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 3 have checked numeric profiles and 3 remain open.

INDIVIDUAL FORMULA LINKS

F-206, F-207, F-208, F-209, F-210, F-211

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-335; F-206; F-211; YP-035

Evidence: evidence/rerun/teal/TP-335.json

TR-TP-336 / Formula cluster F-212 through F-217

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-336 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 3 have checked numeric profiles and 3 remain open.

INDIVIDUAL FORMULA LINKS

F-212, F-213, F-214, F-215, F-216, F-217

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-336; F-212; F-217; YP-036

Evidence: evidence/rerun/teal/TP-336.json

TR-TP-337 / Formula cluster F-218 through F-223

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-337 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 5 have checked numeric profiles and 1 remain open.

INDIVIDUAL FORMULA LINKS

F-218, F-219, F-220, F-221, F-222, F-223

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-337; F-218; F-223; YP-037

Evidence: evidence/rerun/teal/TP-337.json

TR-TP-338 / Formula cluster F-224 through F-229

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-338 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 3 have checked numeric profiles and 3 remain open.

INDIVIDUAL FORMULA LINKS

F-224, F-225, F-226, F-227, F-228, F-229

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-338; F-224; F-229; YP-038

Evidence: evidence/rerun/teal/TP-338.json

TR-TP-339 / Formula cluster F-230 through F-235

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-339 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 6 Pink formula IDs: 3 have checked numeric profiles and 3 remain open.

INDIVIDUAL FORMULA LINKS

F-230, F-231, F-232, F-233, F-234, F-235

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-339; F-230; F-235; YP-039

Evidence: evidence/rerun/teal/TP-339.json

TR-TP-340 / Formula cluster F-236 through F-242

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-340 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model. Explicit source links resolve to 7 Pink formula IDs: 1 have checked numeric profiles and 6 remain open.

INDIVIDUAL FORMULA LINKS

F-236, F-237, F-238, F-239, F-240, F-241, F-242

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-340; F-236; F-242; YP-040

Evidence: evidence/rerun/teal/TP-340.json

TR-TP-341 / MJ family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-341 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-341; YP-041

Evidence: evidence/rerun/teal/TP-341.json

TR-TP-342 / Bangel family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-342 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-342; YP-042

Evidence: evidence/rerun/teal/TP-342.json

TR-TP-343 / Elsa family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-343 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-343; YP-043

Evidence: evidence/rerun/teal/TP-343.json

TR-TP-344 / JP family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-344 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-344; YP-044

Evidence: evidence/rerun/teal/TP-344.json

TR-TP-345 / Mika / MK family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-345 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-345; YP-045

Evidence: evidence/rerun/teal/TP-345.json

TR-TP-346 / JO family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-346 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-346; YP-046

Evidence: evidence/rerun/teal/TP-346.json

TR-TP-347 / MJOS family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-347 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-347; YP-047

Evidence: evidence/rerun/teal/TP-347.json

TR-TP-348 / Angels family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-348 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-348; YP-048

Evidence: evidence/rerun/teal/TP-348.json

TR-TP-349 / Bellatrix family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-349 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-349; YP-049

Evidence: evidence/rerun/teal/TP-349.json

TR-TP-350 / Sister family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-350 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-350; YP-050

Evidence: evidence/rerun/teal/TP-350.json

TR-TP-351 / EVE family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-351 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-351; YP-051

Evidence: evidence/rerun/teal/TP-351.json

TR-TP-352 / Mary / M3 family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-352 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-352; YP-052

Evidence: evidence/rerun/teal/TP-352.json

TR-TP-353 / Mermaid family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-353 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-353; YP-053

Evidence: evidence/rerun/teal/TP-353.json

TR-TP-354 / Shiva family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-354 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-354; YP-054

Evidence: evidence/rerun/teal/TP-354.json

TR-TP-355 / Shekina family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-355 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-355; YP-055

Evidence: evidence/rerun/teal/TP-355.json

TR-TP-356 / Belle family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-356 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-356; YP-056

Evidence: evidence/rerun/teal/TP-356.json

TR-TP-357 / Lecanto family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-357 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-357; YP-057

Evidence: evidence/rerun/teal/TP-357.json

TR-TP-358 / Moana family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-358 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-358; YP-058

Evidence: evidence/rerun/teal/TP-358.json

TR-TP-359 / Aviator family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-359 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-359; YP-059

Evidence: evidence/rerun/teal/TP-359.json

TR-TP-360 / CHI family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-360 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-360; YP-060

Evidence: evidence/rerun/teal/TP-360.json

TR-TP-361 / WATER family manifestation blueprint

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-361 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-361; YP-061

Evidence: evidence/rerun/teal/TP-361.json

TR-TP-362 / MJ Physics Based Measurement Engineering Framework / Lecanto

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-362 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-362; YP-062

Evidence: evidence/rerun/teal/TP-362.json

TR-TP-363 / Bangel Governed Measurement Language / Elsa Governed Marketplace

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-363 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-363; YP-063

Evidence: evidence/rerun/teal/TP-363.json

TR-TP-364 / Elsa Deterministic Semantic Recovery / Shekina Distributed Continuity

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-364 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-364; YP-064

Evidence: evidence/rerun/teal/TP-364.json

TR-TP-365 / JP Mathematical and Architectural Canon / Pearl Hypothetical Simulation

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-365 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-365; YP-065

Evidence: evidence/rerun/teal/TP-365.json

TR-TP-366 / Mika/MK Physics Modulator System / Bangel Spreadsheets

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-366 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-366; YP-066

Evidence: evidence/rerun/teal/TP-366.json

TR-TP-367 / JO Deterministic Proof and Runtime / JPOSMJ Product Portfolio Envelope

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-367 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-367; YP-067

Evidence: evidence/rerun/teal/TP-367.json

TR-TP-368 / MJOS Operating Substrate / MJ Standard Containment Geometry and

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-368 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-368; YP-068

Evidence: evidence/rerun/teal/TP-368.json

TR-TP-369 / JP Semiconductor Phone Battery and OS Candidate / MJ Reservoir

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-369 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-369; YP-069

Evidence: evidence/rerun/teal/TP-369.json

TR-TP-370 / JP Large-Scale Boating Power Candidate / MJOS Solar Shared-Core

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-370 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-370; YP-070

Evidence: evidence/rerun/teal/TP-370.json

TR-TP-371 / JP Peaceful High-Energy Propulsion Research Candidate / MJOS Solar

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-371 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-371; YP-071

Evidence: evidence/rerun/teal/TP-371.json

TR-TP-372 / Sister Predictive Containment System / MJOS Solar-Assisted Marine

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-372 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-372; YP-072

Evidence: evidence/rerun/teal/TP-372.json

TR-TP-373 / EVE Variance Screen and Egress Accounting / MJOS Peaceful

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-373 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-373; YP-073

Evidence: evidence/rerun/teal/TP-373.json

TR-TP-374 / Angels Safety and Corrective Command System / DRO Discrete Retention

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-374 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-374; YP-074

Evidence: evidence/rerun/teal/TP-374.json

TR-TP-375 / Mermaid Accounting and Reconciliation System / DRO-to-Pearl

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-375 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-375; YP-075

Evidence: evidence/rerun/teal/TP-375.json

TR-TP-376 / Shiva Dual Financial Rails / DRO Start-Energy and Restart-Reserve

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-376 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-376; YP-076

Evidence: evidence/rerun/teal/TP-376.json

TR-TP-377 / SHIVAS Internal Settlement Reflection / Lecanto Image Provenance,

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-377 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-377; YP-077

Evidence: evidence/rerun/teal/TP-377.json

TR-TP-378 / Shiva Day-1 Internal Banking and Financial Ecosystem MVP / JP

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-378 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-378; YP-078

Evidence: evidence/rerun/teal/TP-378.json

TR-TP-379 / Shiva Exchange Rule Reference

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-379 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-379; YP-079

Evidence: evidence/rerun/teal/TP-379.json

TR-TP-380 / Moana Governed Browser

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-380 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-380; YP-080

Evidence: evidence/rerun/teal/TP-380.json

TR-TP-381 / Aviator Organizational Workspace

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-381 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-381; YP-081

Evidence: evidence/rerun/teal/TP-381.json

TR-TP-382 / JP_CAPO / WATER_INTERVAL_STATE / JPOSMJ_PRODUCT_ENVELOPE

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-382 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-382; YP-082

Evidence: evidence/rerun/teal/TP-382.json

TR-TP-383 / MK_PHYSICS_CAPO / PASKEY_PUBLIC_RECEIPT /

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-383 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-383; YP-083

Evidence: evidence/rerun/teal/TP-383.json

TR-TP-384 / JO_PROOF_RECEIPT /
PEARL_VARIANCE_CONTAINER /

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-384 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-384; YP-084

Evidence: evidence/rerun/teal/TP-384.json

TR-TP-385 / MJ_PERMIT / PEARL_ALLOCATION_RECEIPT /

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-385 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-385; YP-085

Evidence: evidence/rerun/teal/TP-385.json

TR-TP-386 / EVE_OBSERVATION / PEARL_ACOUSTIC_PROFILE /

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-386 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-386; YP-086

Evidence: evidence/rerun/teal/TP-386.json

TR-TP-387 / M3_ROUTE_RECEIPT /
PEARL_SYMPOSIUM_REGISTRY /

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-387 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-387; YP-087

Evidence: evidence/rerun/teal/TP-387.json

TR-TP-388 / MERMAID_ACCOUNT / BANGEL_SHEET / GAS_HEIGHT_OBSERVATION

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-388 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-388; YP-088

Evidence: evidence/rerun/teal/TP-388.json

TR-TP-389 / SHIVA_SHELL / BANGEL_SHEET_CELL /

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-389 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-389; YP-089

Evidence: evidence/rerun/teal/TP-389.json

TR-TP-390 / SHIVAS_INTERNAL_REFLECTION / BANGEL_SHEET_REVISION /

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-390 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-390; YP-090

Evidence: evidence/rerun/teal/TP-390.json

**TR-TP-391 / CHI_VARIANCE_OBJECT /
BANGEL_SHEET_AUDIT_PARTICLE /**

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-391 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-391; YP-091

Evidence: evidence/rerun/teal/TP-391.json

TR-TP-392 / Command gateway lifecycle

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-392 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-392; YP-092

Evidence: evidence/rerun/teal/TP-392.json

TR-TP-393 / R / R0 / R1 / N1 / R2 observation lifecycle

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-393 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-393; YP-093

Evidence: evidence/rerun/teal/TP-393.json

TR-TP-394 / Sister containment and reservoir loop

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-394 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-394; YP-094

Evidence: evidence/rerun/teal/TP-394.json

TR-TP-395 / DRO collection and Pearl handoff

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-395 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-395; YP-095

Evidence: evidence/rerun/teal/TP-395.json

TR-TP-396 / Lecanto image provenance and intent hypothesis

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-396 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-396; YP-096

Evidence: evidence/rerun/teal/TP-396.json

TR-TP-397 / Bangel Spreadsheets dependency and audit flow

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-397 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-397; YP-097

Evidence: evidence/rerun/teal/TP-397.json

TR-TP-398 / Shiva internal banking and Mermaid reconciliation

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-398 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-398; YP-098

Evidence: evidence/rerun/teal/TP-398.json

TR-TP-399 / Solar three-profile separation

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-399 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-399; YP-099

Evidence: evidence/rerun/teal/TP-399.json

TR-TP-400 / Passkey integrity and encrypted Git transition

IF

If a visual or measurement blueprint is selected for review or simulation.

HOW

Use normalized geometry, declared measurements, formula references, code expression, profile boundaries, and evidence ceilings; route through MK and JO.

THEN

Then the blueprint is admitted as reference evidence, held for missing physical data, or denied for unsafe purpose.

CURRENT EVIDENCE

The individual TP-400 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-400; YP-100

Evidence: evidence/rerun/teal/TP-400.json

TR-TP-401 / MJ - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-401 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-401

Evidence: evidence/rerun/teal/TP-401.json

TR-TP-402 / Bangel - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-402 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-402

Evidence: evidence/rerun/teal/TP-402.json

TR-TP-403 / Elsa - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-403 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-403

Evidence: evidence/rerun/teal/TP-403.json

TR-TP-404 / JP - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-404 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-404

Evidence: evidence/rerun/teal/TP-404.json

TR-TP-405 / Mika / MK - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-405 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-405

Evidence: evidence/rerun/teal/TP-405.json

TR-TP-406 / JO - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-406 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-406

Evidence: evidence/rerun/teal/TP-406.json

TR-TP-407 / MJOS - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-407 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-407

Evidence: evidence/rerun/teal/TP-407.json

TR-TP-408 / Angels - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-408 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-408

Evidence: evidence/rerun/teal/TP-408.json

TR-TP-409 / Bellatrix - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-409 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-409

Evidence: evidence/rerun/teal/TP-409.json

TR-TP-410 / Sister - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-410 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-410

Evidence: evidence/rerun/teal/TP-410.json

TR-TP-411 / EVE - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-411 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-411

Evidence: evidence/rerun/teal/TP-411.json

TR-TP-412 / Mary / M3 - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-412 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-412

Evidence: evidence/rerun/teal/TP-412.json

TR-TP-413 / Mermaid - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-413 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-413

Evidence: evidence/rerun/teal/TP-413.json

TR-TP-414 / Shiva - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-414 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-414

Evidence: evidence/rerun/teal/TP-414.json

TR-TP-415 / Shekina - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-415 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-415

Evidence: evidence/rerun/teal/TP-415.json

TR-TP-416 / Belle - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-416 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-416

Evidence: evidence/rerun/teal/TP-416.json

TR-TP-417 / Lecanto - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-417 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-417

Evidence: evidence/rerun/teal/TP-417.json

TR-TP-418 / Moana - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-418 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-418

Evidence: evidence/rerun/teal/TP-418.json

TR-TP-419 / Aviator - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-419 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-419

Evidence: evidence/rerun/teal/TP-419.json

TR-TP-420 / CHI - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-420 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-420

Evidence: evidence/rerun/teal/TP-420.json

TR-TP-421 / WATER - MJ Manifestation White Paper

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-421 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-421

Evidence: evidence/rerun/teal/TP-421.json

TR-TP-422 / MJ Physics Based Measurement Engineering Framework

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-422 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-422

Evidence: evidence/rerun/teal/TP-422.json

TR-TP-423 / Bangel Governed Measurement Language

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-423 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-423

Evidence: evidence/rerun/teal/TP-423.json

TR-TP-424 / Elsa Deterministic Semantic Recovery

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-424 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-424

Evidence: evidence/rerun/teal/TP-424.json

TR-TP-425 / JP Mathematical and Architectural Canon

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-425 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-425

Evidence: evidence/rerun/teal/TP-425.json

TR-TP-426 / Mika/MK Physics Modulator System

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-426 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-426

Evidence: evidence/rerun/teal/TP-426.json

TR-TP-427 / JO Deterministic Proof and Runtime

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-427 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-427

Evidence: evidence/rerun/teal/TP-427.json

TR-TP-428 / MJOS Operating Substrate

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-428 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-428

Evidence: evidence/rerun/teal/TP-428.json

TR-TP-429 / JP Semiconductor Phone Battery and OS Candidate

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-429 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-429

Evidence: evidence/rerun/teal/TP-429.json

TR-TP-430 / JP Large-Scale Boating Power Candidate

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-430 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-430

Evidence: evidence/rerun/teal/TP-430.json

TR-TP-431 / JP Peaceful High-Energy Propulsion Research Candidate

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-431 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-431

Evidence: evidence/rerun/teal/TP-431.json

TR-TP-432 / Sister Predictive Containment System

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-432 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-432

Evidence: evidence/rerun/teal/TP-432.json

TR-TP-433 / EVE Variance Screen and Egress Accounting

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-433 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-433

Evidence: evidence/rerun/teal/TP-433.json

TR-TP-434 / Angels Safety and Corrective Command System

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-434 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-434

Evidence: evidence/rerun/teal/TP-434.json

TR-TP-435 / Mermaid Accounting and Reconciliation System

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-435 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-435

Evidence: evidence/rerun/teal/TP-435.json

TR-TP-436 / Shiva Dual Financial Rails

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-436 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-436

Evidence: evidence/rerun/teal/TP-436.json

TR-TP-437 / SHIVAS Internal Settlement Reflection

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-437 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-437

Evidence: evidence/rerun/teal/TP-437.json

TR-TP-438 / Shiva Day-1 Internal Banking and Financial Ecosystem MVP

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-438 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-438

Evidence: evidence/rerun/teal/TP-438.json

TR-TP-439 / Shiva Exchange Rule Reference

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-439 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-439

Evidence: evidence/rerun/teal/TP-439.json

TR-TP-440 / Moana Governed Browser

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-440 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-440

Evidence: evidence/rerun/teal/TP-440.json

TR-TP-441 / Aviator Organizational Workspace

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-441 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-441

Evidence: evidence/rerun/teal/TP-441.json

TR-TP-442 / Lecanto Truthful Visualization

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-442 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-442

Evidence: evidence/rerun/teal/TP-442.json

TR-TP-443 / Elsa Governed Marketplace Reference

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-443 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-443

Evidence: evidence/rerun/teal/TP-443.json

TR-TP-444 / Shekina Distributed Continuity

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-444 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-444

Evidence: evidence/rerun/teal/TP-444.json

TR-TP-445 / Pearl Hypothetical Simulation and Information-Retention System

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-445 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-445

Evidence: evidence/rerun/teal/TP-445.json

TR-TP-446 / Bangel Spreadsheets

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-446 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-446

Evidence: evidence/rerun/teal/TP-446.json

TR-TP-447 / JPOSMJ Product Portfolio Envelope

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-447 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-447

Evidence: evidence/rerun/teal/TP-447.json

TR-TP-448 / MJ Standard Containment Geometry and Reference Gas Model

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-448 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-448

Evidence: evidence/rerun/teal/TP-448.json

TR-TP-449 / MJ Reservoir Collection Modulation and Return Loop

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-449 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-449

Evidence: evidence/rerun/teal/TP-449.json

TR-TP-450 / MJOS Solar Shared-Core Architecture

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-450 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-450

Evidence: evidence/rerun/teal/TP-450.json

TR-TP-451 / MJOS Solar Semiconductor Phone Battery and OS Profile

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-451 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-451

Evidence: evidence/rerun/teal/TP-451.json

TR-TP-452 / MJOS Solar-Assisted Marine Power and Propulsion Profile

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-452 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-452

Evidence: evidence/rerun/teal/TP-452.json

TR-TP-453 / MJOS Peaceful Solar-Assisted Rocket/Spacecraft Power and OS Profile

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-453 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-453

Evidence: evidence/rerun/teal/TP-453.json

TR-TP-454 / DRO Discrete Retention and Element-Collection Reference System

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-454 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-454

Evidence: evidence/rerun/teal/TP-454.json

TR-TP-455 / DRO-to-Pearl Computational Node Handoff

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-455 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-455

Evidence: evidence/rerun/teal/TP-455.json

TR-TP-456 / DRO Start-Energy and Restart-Reserve Reference System

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-456 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-456

Evidence: evidence/rerun/teal/TP-456.json

TR-TP-457 / Lecanto Image Provenance, Physics, Variance, and Intent-Hypothesis

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-457 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-457

Evidence: evidence/rerun/teal/TP-457.json

TR-TP-458 / Semiconductor DRO and Pearl Computational Integration

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-458 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-458

Evidence: evidence/rerun/teal/TP-458.json

TR-TP-459 / R1 and R2 State Representation

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-459 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-459

Evidence: evidence/rerun/teal/TP-459.json

TR-TP-460 / Noise Floor and 23 mg Inflection

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-460 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-460

Evidence: evidence/rerun/teal/TP-460.json

TR-TP-461 / Upward 3x3 Node and Umbrella Representation

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-461 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-461

Evidence: evidence/rerun/teal/TP-461.json

TR-TP-462 / Memory, Request Occultation, and Generational Handoff

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-462 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-462

Evidence: evidence/rerun/teal/TP-462.json

TR-TP-463 / Static Intake and Energy-Wake Representation

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-463 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-463

Evidence: evidence/rerun/teal/TP-463.json

TR-TP-464 / EVE Variance, Screen, Evaporation, and Egress

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-464 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-464

Evidence: evidence/rerun/teal/TP-464.json

TR-TP-465 / Shiva and Mermaid Financial Rails

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-465 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-465

Evidence: evidence/rerun/teal/TP-465.json

TR-TP-466 / Passkey, Claims Ceiling, and Repository Authentication

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-466 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-466

Evidence: evidence/rerun/teal/TP-466.json

TR-TP-467 / Pearl Hypothetical Geometry and Acoustic Simulation Representation

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-467 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-467

Evidence: evidence/rerun/teal/TP-467.json

TR-TP-468 / Bangel Spreadsheets Cell, Dependency, Revision, and Pearl Simulation

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-468 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-468

Evidence: evidence/rerun/teal/TP-468.json

TR-TP-469 / Standard Containment Geometry and H2 Reference Representation

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-469 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-469

Evidence: evidence/rerun/teal/TP-469.json

TR-TP-470 / Reservoir Return Loop Physics Representation

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-470 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-470

Evidence: evidence/rerun/teal/TP-470.json

TR-TP-471 / DRO Scale, Unit, and R/R1/R2 Representation

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-471 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-471

Evidence: evidence/rerun/teal/TP-471.json

TR-TP-472 / DRO Optical Measurement and Light-Frequency Evidence Representation

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-472 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-472

Evidence: evidence/rerun/teal/TP-472.json

TR-TP-473 / DRO/Pearl Computational Node and Capacity Representation

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-473 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-473

Evidence: evidence/rerun/teal/TP-473.json

TR-TP-474 / DRO Start-Energy, Restart-Reserve, and Controlled-Release

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-474 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-474

Evidence: evidence/rerun/teal/TP-474.json

TR-TP-475 / Lecanto Image Provenance, Signal Physics, and Intent-Hypothesis

IF

If the White Paper scope is used to support a command, product, family, or design decision.

HOW

Resolve the source identity, claims ceiling, formulas, participant boundaries, tests, and outstanding evidence before JP/MK/JO review.

THEN

Then only supported reference conclusions may advance; unsupported physical, legal, financial, or IP conclusions remain held.

CURRENT EVIDENCE

The individual TP-475 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-475

Evidence: evidence/rerun/teal/TP-475.json

TR-TP-476 / JO source modules

IF

If an item in jo/*.py is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-476 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-476

Evidence: evidence/rerun/teal/TP-476.json

TR-TP-477 / Bangel source units

IF

If an item in bangel/**/*.*.bangel is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-477 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-477

Evidence: evidence/rerun/teal/TP-477.json

TR-TP-478 / Governed schemas

IF

If an item in schemas/*.json is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-478 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-478

Evidence: evidence/rerun/teal/TP-478.json

TR-TP-479 / Pathway specifications

IF

If an item in pathways/* is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-479 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-479

Evidence: evidence/rerun/teal/TP-479.json

TR-TP-480 / Manifest sources

IF

If an item in manifest/* is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-480 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-480

Evidence: evidence/rerun/teal/TP-480.json

TR-TP-481 / Passkey and ceremony sources

IF

If an item in passkey/* is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-481 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-481

Evidence: evidence/rerun/teal/TP-481.json

TR-TP-482 / Repository tests

IF

If an item in tests/* is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-482 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-482

Evidence: evidence/rerun/teal/TP-482.json

TR-TP-483 / Validation evidence

IF

If an item in validation/* is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-483 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-483

Evidence: evidence/rerun/teal/TP-483.json

TR-TP-484 / Potential IP registers

IF

If an item in official-docs/**/potential-ip-points/* is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-484 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-484

Evidence: evidence/rerun/teal/TP-484.json

TR-TP-485 / Blue Page corpus

IF

If an item in official-docs/blue-pages/* is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-485 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-485

Evidence: evidence/rerun/teal/TP-485.json

TR-TP-486 / Pink Paper corpus

IF

If an item in official-docs/pink-paper/* and official-docs/pink-papers/* is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-486 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-486

Evidence: evidence/rerun/teal/TP-486.json

TR-TP-487 / Review series

IF

If an item in official-docs/review-series/* is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-487 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-487

Evidence: evidence/rerun/teal/TP-487.json

TR-TP-488 / Solar profile documents

IF

If an item in official-docs/solar/* is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-488 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-488

Evidence: evidence/rerun/teal/TP-488.json

TR-TP-489 / R8 DRO Pearl Lecanto documents

IF

If an item in official-docs/r8/* is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-489 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-489

Evidence: evidence/rerun/teal/TP-489.json

TR-TP-490 / Terms and assent

IF

If an item in official-docs/terms/* is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-490 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-490

Evidence: evidence/rerun/teal/TP-490.json

TR-TP-491 / Family object product registers

IF

If an item in manifest/*REGISTER* is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-491 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-491

Evidence: evidence/rerun/teal/TP-491.json

TR-TP-492 / Formula register

IF

If an item in pathways/FORMULA-REGISTER.json is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-492 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-492

Evidence: evidence/rerun/teal/TP-492.json

TR-TP-493 / Ethics and non-weaponization

IF

If an item in manifest/ETHICS-MANIFEST.* is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-493 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-493

Evidence: evidence/rerun/teal/TP-493.json

TR-TP-494 / Physical evidence holds

IF

If an item in schemas and validation hold receipts is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-494 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-494

Evidence: evidence/rerun/teal/TP-494.json

TR-TP-495 / Repository and Git evidence

IF

If an item in Git bundle, source ZIP, content manifest is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-495 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-495

Evidence: evidence/rerun/teal/TP-495.json

TR-TP-496 / Documentation QA

IF

If an item in official documentation QA and PDF preflight is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-496 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-496

Evidence: evidence/rerun/teal/TP-496.json

TR-TP-497 / Founder ceremony

IF

If an item in eligibility, roots, declaration, public receipt is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-497 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-497

Evidence: evidence/rerun/teal/TP-497.json

TR-TP-498 / Shiva Day-1 internal banking

IF

If an item in internal banking MVP; no external crypto is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-498 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-498

Evidence: evidence/rerun/teal/TP-498.json

TR-TP-499 / Yellow visual system

IF

If an item in 100 Yellow visual bundles is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-499 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-499

Evidence: evidence/rerun/teal/TP-499.json

TR-TP-500 / Brown Purple Angel systems

IF

If an item in lifecycle, syntax, and safety annexes is parsed, imported, executed, or cited.

HOW

Preserve exact source lineage, typed scope, deterministic IF/HOW/THEN logic, MK physics applicability, JO verification, safety hooks, M3 routing, Mermaid/Shiva implications, and MJ authority boundaries.

THEN

Then the item is admitted only for its declared evidence ceiling; incomplete or unsafe states fail closed.

CURRENT EVIDENCE

The individual TP-500 reference profile was executed and its identity, title and REFERENCE_ONLY ceiling matched. This is a documentary identity check, not execution of the full model.

REMAINING REQUIREMENT

Bind model-specific inputs, operations and measured evidence before interpreting the paper as an executable implementation.

SOURCE REFERENCES

TP-500

Evidence: evidence/rerun/teal/TP-500.json

All Pink through Teal

263 individual papers. Source references, current evidence and open requirements accompany every item.

Documentary rerun complete for recovered scope. Executable implementation remains partial.

Each item retains its own identity, condition, method, outcome and evidence state. An individual paper or a passing assertion does not close a missing formula contract.

Bangel 58153a770206e2a3b500671aa4ca50e20c9c3a7d
Associated core 0d89fdf7f7914b9fdb5e62533613bfab41d34014

TR-PK-D001 / PinkPaper Volume01 Gateway

IF

A raw gateway expression is submitted with a human purpose and declared scope.

HOW

Preserve the raw literal as provenance; separate lexical order from the normalized lifecycle through Bangel, Elsa, JP, classification, proof and MJ.

THEN

Return a bounded evidence result or hold. A dotted command and a supplied Boolean do not create a permit.

CURRENT EVIDENCE

All 10 extracted pages are retained separately. The formula register has 0 distinct IDs linked to this paper. Historical result counts remain historical; original graphics are not reproduced by extracted text.

REMAINING REQUIREMENT

Resolve any source-specific object, measurement, graphics or authority gap; formula-profile passes do not verify the entire paper.

SOURCE REFERENCES

PK-D001

TR-PK-D002 / DRO IGNITION PINK 001

IF

Start or restart readiness is requested with energy sources, reserve bounds and release conditions.

HOW

Resolve each linked start-energy, loss, separation-work and restart-reserve formula independently; preserve conservative lower/upper bounds.

THEN

Keep start readiness conditional on the complete energy and evidence contract; missing reserve or permission evidence holds the request.

CURRENT EVIDENCE

All 4 extracted pages are retained separately. The formula register has 10 distinct IDs linked to this paper. Historical result counts remain historical; original graphics are not reproduced by extracted text.

INDIVIDUAL FORMULA LINKS

F-220, F-221, F-222, F-223, F-224, F-225, F-226, F-227, F-228, F-229

REMAINING REQUIREMENT

Resolve any source-specific object, measurement, graphics or authority gap; formula-profile passes do not verify the entire paper.

SOURCE REFERENCES

PK-D002

TR-PK-D003 / DRO PEARL PINK 001

IF

A DRO-to-Pearl node handoff requests capacity or accounting treatment.

HOW

Preserve node identity, capacity bounds, handoff provenance and reconciliation separately; route each linked formula to its individual Teal entry.

THEN

Return a documented node/capacity proposal. No computation manufactures capacity or peer authority.

CURRENT EVIDENCE

All 3 extracted pages are retained separately. The formula register has 5 distinct IDs linked to this paper. Historical result counts remain historical; original graphics are not reproduced by extracted text.

INDIVIDUAL FORMULA LINKS

F-203, F-204, F-217, F-218, F-219

REMAINING REQUIREMENT

Resolve any source-specific object, measurement, graphics or authority gap; formula-profile passes do not verify the entire paper.

SOURCE REFERENCES

PK-D003

TR-PK-D004 / DRO PINK 001

IF

A DRO observation or collection lifecycle supplies a scale, state and optical evidence.

HOW

Separate optical representation from measured physical evidence; resolve scale and state predicates without changing source formula identities.

THEN

Emit evidence status or hold. A visual representation does not establish mass, collection, or physical action.

CURRENT EVIDENCE

All 7 extracted pages are retained separately. The formula register has 27 distinct IDs linked to this paper. Historical result counts remain historical; original graphics are not reproduced by extracted text.

INDIVIDUAL FORMULA LINKS

F-001, F-194, F-195, F-196, F-197, F-198, F-199, F-200, F-201, F-202, F-203, F-204, F-205, F-206, F-207, F-208, F-209, F-210, F-211, F-212, F-213, F-214, F-215, F-216, F-217, F-218, F-219

REMAINING REQUIREMENT

Resolve any source-specific object, measurement, graphics or authority gap; formula-profile passes do not verify the entire paper.

SOURCE REFERENCES

PK-D004

TR-PK-D005 / LECANTO PINK 001

IF

An image is presented to the Lecanto source/derivative pathway.

HOW

Retain source-image provenance; separate observation, derivative generation, variance analysis and intent hypotheses. Track linked image and byte contracts individually.

THEN

Return a qualified image analysis or a hold; do not turn a hypothesis into established intent or physical permission.

CURRENT EVIDENCE

All 3 extracted pages are retained separately. The formula register has 9 distinct IDs linked to this paper. Historical result counts remain historical; original graphics are not reproduced by extracted text.

INDIVIDUAL FORMULA LINKS

F-234, F-235, F-236, F-237, F-238, F-239, F-240, F-241, F-242

REMAINING REQUIREMENT

Resolve any source-specific object, measurement, graphics or authority gap; formula-profile passes do not verify the entire paper.

SOURCE REFERENCES

PK-D005

TR-PK-D006 / Pink Paper Gateway Expression and Full Lifecycle 001

IF

Any formula, family, object or product enters the complete Pink gateway and lifecycle volume.

HOW

Preserve all 431 recovered pages and their repeated occurrences. Route every indexed formula to its own Teal contract, retaining execution order, units, evidence and MJ boundaries.

THEN

Produce a source-linked ledger of implemented scalar paths and unresolved measurement/state contracts. The volume does not become complete merely because it has been indexed.

CURRENT EVIDENCE

All 431 extracted pages are retained separately. The formula register has 145 distinct IDs linked to this paper. Historical result counts remain historical; original graphics are not reproduced by extracted text.

INDIVIDUAL FORMULA LINKS

F-001, F-002, F-003, F-004, F-005, F-006, F-007, F-008, F-009, F-010, F-011, F-012, F-013, F-014, F-015, F-016, F-017, F-018, F-019, F-020, F-021, F-022, F-023, F-024, F-025, F-026, F-027, F-028, F-029, F-030, F-031, F-032, F-033, F-034, F-035, F-036, F-037, F-038, F-039, F-040, F-041, F-042, F-043, F-044, F-045, F-046, F-047, F-048, F-049, F-050, F-051, F-052, F-053, F-054, F-055, F-056, F-057, F-058, F-059, F-060, F-061, F-062, F-063, F-064, F-065, F-066, F-067, F-068, F-069, F-070, F-071, F-072, F-073, F-074, F-075, F-076, F-077, F-078, F-079, F-080, F-081, F-082, F-083, F-084, F-085, F-086, F-087, F-088, F-089, F-090, F-091, F-092, F-093, F-094, F-095, F-096, F-097, F-098, F-099, F-100, F-101, F-102, F-103, F-104, F-105, F-106, F-107, F-108, F-109, F-110, F-111, F-112, F-113, F-114, F-115, F-116, F-117, F-118, F-119, F-120, F-121, F-122, F-123, F-124, F-125, F-126, F-127, F-128, F-129, F-130, F-131, F-132, F-133, F-134, F-135, F-136, F-137, F-138, F-139, F-140, F-141, F-142, F-143, F-144, F-145

REMAINING REQUIREMENT

Resolve any source-specific object, measurement, graphics or authority gap; formula-profile passes do not verify the entire paper.

SOURCE REFERENCES

PK-D006

TR-PK-D007 / Pink Paper Potential IP Status 001

IF

A candidate observation appears in the potential-IP register.

HOW

Preserve its category and historical enumeration as documentary provenance; distinguish counts of observations from validated technical claims.

THEN

Retain the record for review. This rerun makes no new determination of rights or novelty.

CURRENT EVIDENCE

All 48 extracted pages are retained separately. The formula register has 0 distinct IDs linked to this paper. Historical result counts remain historical; original graphics are not reproduced by extracted text.

REMAINING REQUIREMENT

Resolve any source-specific object, measurement, graphics or authority gap; formula-profile passes do not verify the entire paper.

SOURCE REFERENCES

PK-D007

TR-PK-D008 / Pink Paper R11 23000 Test and Simulation Results

IF

The R11 paper reports 23,000 historical deterministic scenarios.

HOW

Keep the scenario categories, expected/actual description and receipt references as historical evidence; attach this rerun's new logs separately.

THEN

Report historical claims and fresh measured test counts separately. Do not carry the old aggregate forward as newly executed tests.

CURRENT EVIDENCE

All 24 extracted pages are retained separately. The formula register has 0 distinct IDs linked to this paper. Historical result counts remain historical; original graphics are not reproduced by extracted text.

REMAINING REQUIREMENT

Resolve any source-specific object, measurement, graphics or authority gap; formula-profile passes do not verify the entire paper.

SOURCE REFERENCES

PK-D008

TR-PK-D009 / Pink Paper R12 46000 Aggregate Test and Simulation Results

IF

The R12 paper reports 46,000 cumulative R11/R12 scenarios.

HOW

Preserve cumulative accounting and category provenance, including repeated R11 coverage; use only current logs for this rerun's test verdict.

THEN

Keep the aggregate historical. Do not double-count repeated scenarios or infer fresh platform/physical verification.

CURRENT EVIDENCE

All 24 extracted pages are retained separately. The formula register has 0 distinct IDs linked to this paper. Historical result counts remain historical; original graphics are not reproduced by extracted text.

REMAINING REQUIREMENT

Resolve any source-specific object, measurement, graphics or authority gap; formula-profile passes do not verify the entire paper.

SOURCE REFERENCES

PK-D009

TR-PK-D010 / Pink Paper Testing Evidence 001

IF

Testing evidence is offered to support a lifecycle or formula claim.

HOW

Bind the evidence to source identity, tested behavior and scope; separate documentary expectations from executable receipts and environmental limitations.

THEN

Admit only the demonstrated evidence scope; unresolved sources or tests remain explicitly open.

CURRENT EVIDENCE

All 48 extracted pages are retained separately. The formula register has 0 distinct IDs linked to this paper. Historical result counts remain historical; original graphics are not reproduced by extracted text.

REMAINING REQUIREMENT

Resolve any source-specific object, measurement, graphics or authority gap; formula-profile passes do not verify the entire paper.

SOURCE REFERENCES

PK-D010

TR-PK-D011 / PinkPaper Volume02 Formulas F001 F050

IF

A formula F-001 through F-050 is invoked.

HOW

Read each formula's individual inputs, source expression, result dimension, domain and paper-page cross-reference. Run available profiles and preserve missing conversions.

THEN

Return the specific scalar result or HOLD/refusal; no formula is closed by a neighboring formula's success.

CURRENT EVIDENCE

All 106 extracted pages are retained separately. The formula register has 50 distinct IDs linked to this paper. Historical result counts remain historical; original graphics are not reproduced by extracted text.

INDIVIDUAL FORMULA LINKS

F-001, F-002, F-003, F-004, F-005, F-006, F-007, F-008, F-009, F-010, F-011, F-012, F-013, F-014, F-015, F-016, F-017, F-018, F-019, F-020, F-021, F-022, F-023, F-024, F-025, F-026, F-027, F-028, F-029, F-030, F-031, F-032, F-033, F-034, F-035, F-036, F-037, F-038, F-039, F-040, F-041, F-042, F-043, F-044, F-045, F-046, F-047, F-048, F-049, F-050

REMAINING REQUIREMENT

Resolve any source-specific object, measurement, graphics or authority gap; formula-profile passes do not verify the entire paper.

SOURCE REFERENCES

PK-D011

TR-PK-D012 / PinkPaper Volume03 Formulas F051 F100

IF

A formula F-051 through F-100 is invoked.

HOW

Apply the per-formula Teal register, including damping, signed values, correlation domains and geometry boundaries where supplied by the current source.

THEN

Keep each result and contract gap independent, with receipt evidence for available implementations.

CURRENT EVIDENCE

All 106 extracted pages are retained separately. The formula register has 50 distinct IDs linked to this paper. Historical result counts remain historical; original graphics are not reproduced by extracted text.

INDIVIDUAL FORMULA LINKS

F-051, F-052, F-053, F-054, F-055, F-056, F-057, F-058, F-059, F-060, F-061, F-062, F-063, F-064, F-065, F-066, F-067, F-068, F-069, F-070, F-071, F-072, F-073, F-074, F-075, F-076, F-077, F-078, F-079, F-080, F-081, F-082, F-083, F-084, F-085, F-086, F-087, F-088, F-089, F-090, F-091, F-092, F-093, F-094, F-095, F-096, F-097, F-098, F-099, F-100

REMAINING REQUIREMENT

Resolve any source-specific object, measurement, graphics or authority gap; formula-profile passes do not verify the entire paper.

SOURCE REFERENCES

PK-D012

TR-PK-D013 / PinkPaper Volume04 Formulas F101 F145

IF

A formula F-101 through F-145 is invoked.

HOW

Apply the per-formula Teal register for balances, intervals, pressure, flow and related predicates; preserve source-specific dimensions and gates.

THEN

Return a scoped result or hold. A numeric calculation does not complete its measurement and authority contract.

CURRENT EVIDENCE

All 96 extracted pages are retained separately. The formula register has 45 distinct IDs linked to this paper. Historical result counts remain historical; original graphics are not reproduced by extracted text.

INDIVIDUAL FORMULA LINKS

F-101, F-102, F-103, F-104, F-105, F-106, F-107, F-108, F-109, F-110, F-111, F-112, F-113, F-114, F-115, F-116, F-117, F-118, F-119, F-120, F-121, F-122, F-123, F-124, F-125, F-126, F-127, F-128, F-129, F-130, F-131, F-132, F-133, F-134, F-135, F-136, F-137, F-138, F-139, F-140, F-141, F-142, F-143, F-144, F-145

REMAINING REQUIREMENT

Resolve any source-specific object, measurement, graphics or authority gap; formula-profile passes do not verify the entire paper.

SOURCE REFERENCES

PK-D013

TR-PK-D014 / PinkPaper Volume05 Family and Objects

IF

A family manifestation or governed object participates in the Pink lifecycle.

HOW

Maintain distinct roles for Bangel, Elsa, JP, MK, JO and MJ; retain each object's source identity and cross-reference to the Teal corpus.

THEN

Record the role/object relationship without silently implementing an unbuilt host or transferring authority between families.

CURRENT EVIDENCE

All 47 extracted pages are retained separately. The formula register has 0 distinct IDs linked to this paper. Historical result counts remain historical; original graphics are not reproduced by extracted text.

REMAINING REQUIREMENT

Resolve any source-specific object, measurement, graphics or authority gap; formula-profile passes do not verify the entire paper.

SOURCE REFERENCES

PK-D014

TR-PK-D015 / PinkPaper Volume06 Products and WhitePapers

IF

A product or white-paper identity is invoked from the family ecosystem.

HOW

Preserve each product's application, scope and lifecycle references, and separate public executable implementations from documentary product proposals.

THEN

Return product-specific evidence status; shared family membership does not establish implementation parity.

CURRENT EVIDENCE

All 66 extracted pages are retained separately. The formula register has 0 distinct IDs linked to this paper. Historical result counts remain historical; original graphics are not reproduced by extracted text.

REMAINING REQUIREMENT

Resolve any source-specific object, measurement, graphics or authority gap; formula-profile passes do not verify the entire paper.

SOURCE REFERENCES

PK-D015

TR-PK-D016 / SC DRO PEARL PINK 001

IF

The semiconductor DRO/Pearl integration requests energy or node readiness.

HOW

Trace F-220 onward and the source-specific collection/start contracts individually, including conservation residuals and conservative reserve bounds.

THEN

Produce a reference calculation or hold; preserve the distinction between source model, simulation and calibrated device evidence.

CURRENT EVIDENCE

All 4 extracted pages are retained separately. The formula register has 14 distinct IDs linked to this paper. Historical result counts remain historical; original graphics are not reproduced by extracted text.

INDIVIDUAL FORMULA LINKS

F-220, F-221, F-222, F-223, F-224, F-225, F-226, F-227, F-228, F-229, F-230, F-231, F-232, F-233

REMAINING REQUIREMENT

Resolve any source-specific object, measurement, graphics or authority gap; formula-profile passes do not verify the entire paper.

SOURCE REFERENCES

PK-D016

TR-PK-D017 / SOLAR PINK CORE 001

IF

A shared solar-core profile declares intake, storage, load and reserve requirements.

HOW

Follow the common architecture while retaining each scale's independent calibration, environment, energy ledger and admission evidence.

THEN

Return scoped core evidence; passing one physical profile does not validate another scale.

CURRENT EVIDENCE

All 12 extracted pages are retained separately. The formula register has 12 distinct IDs linked to this paper. Historical result counts remain historical; original graphics are not reproduced by extracted text.

INDIVIDUAL FORMULA LINKS

F-146, F-147, F-148, F-149, F-150, F-151, F-152, F-153, F-154, F-155, F-156, F-157

REMAINING REQUIREMENT

Resolve any source-specific object, measurement, graphics or authority gap; formula-profile passes do not verify the entire paper.

SOURCE REFERENCES

PK-D017

TR-PK-D018 / SOLAR PINK MARINE 001

IF

The marine solar profile requests energy, propulsion-load or reserve coordination.

HOW

Trace intake, storage, recovery, thermal management and reserve formulas independently using marine-specific evidence declarations.

THEN

Return a marine reference result or hold. No vessel-control authority is created.

CURRENT EVIDENCE

All 12 extracted pages are retained separately. The formula register has 12 distinct IDs linked to this paper. Historical result counts remain historical; original graphics are not reproduced by extracted text.

INDIVIDUAL FORMULA LINKS

F-170, F-171, F-172, F-173, F-174, F-175, F-176, F-177, F-178, F-179, F-180, F-181

REMAINING REQUIREMENT

Resolve any source-specific object, measurement, graphics or authority gap; formula-profile passes do not verify the entire paper.

SOURCE REFERENCES

PK-D018

TR-PK-D019 / SOLAR PINK ROCKET 001

IF

The peaceful rocket/spacecraft electrical-support profile requests startup, reserve or telemetry review.

HOW

Retain its non-weaponized scope and profile-specific thermal/battery, fault and shutdown evidence; do not infer readiness from other solar scales.

THEN

Return a documentary or reference result within the source ceiling; flight or propulsion actuation is not established.

CURRENT EVIDENCE

All 12 extracted pages are retained separately. The formula register has 12 distinct IDs linked to this paper. Historical result counts remain historical; original graphics are not reproduced by extracted text.

INDIVIDUAL FORMULA LINKS

F-182, F-183, F-184, F-185, F-186, F-187, F-188, F-189, F-190, F-191, F-192, F-193

REMAINING REQUIREMENT

Resolve any source-specific object, measurement, graphics or authority gap; formula-profile passes do not verify the entire paper.

SOURCE REFERENCES

PK-D019

TR-PK-D020 / SOLAR PINK SEMI PHONE 001

IF

The semiconductor/phone solar profile requests battery or workload coordination.

HOW

Keep energy intake, battery/thermal state, workload demand, reserve allocation and accounting provenance separate and individually traceable.

THEN

Return a phone-profile reference result or hold; no battery/device performance is inferred from a generic scalar result.

CURRENT EVIDENCE

All 12 extracted pages are retained separately. The formula register has 12 distinct IDs linked to this paper. Historical result counts remain historical; original graphics are not reproduced by extracted text.

INDIVIDUAL FORMULA LINKS

F-158, F-159, F-160, F-161, F-162, F-163, F-164, F-165, F-166, F-167, F-168, F-169

REMAINING REQUIREMENT

Resolve any source-specific object, measurement, graphics or authority gap; formula-profile passes do not verify the entire paper.

SOURCE REFERENCES

PK-D020

TR-PINK-F-001 / R1 transition

IF

Invoke F-001 (R1 transition) only with the source-defined inputs, scope, evidence and result dimension (state). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: R0 -> R1. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

state

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D004 pp. 6; D006 pp. 11,12,15,17,18; D011 pp. 1,2,5,7,8

Evidence: evidence/rerun/pending/F-001.json

TR-PINK-F-002 / R2 transition

IF

Invoke F-002 (R2 transition) only with the source-defined inputs, scope, evidence and result dimension (state). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: R1 --validated--> R2. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

state

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D006 pp. 12,19,20; D011 pp. 2,9,10

Evidence: evidence/rerun/pending/F-002.json

TR-PINK-F-003 / Unknown invariant

IF

Invoke F-003 (Unknown invariant) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: UNKNOWN != 0. Bind this formula ID to its typed value or invariant and source-specific tests. Existing language primitives are useful but do not constitute a complete formula contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Bind this formula ID to its typed value or invariant and source-specific tests. Existing language primitives are useful but do not constitute a complete formula contract.

SOURCE REFERENCES

D006 pp. 12,21,22; D011 pp. 2,11,12

Evidence: evidence/rerun/pending/F-003.json

TR-PINK-F-004 / Mass inflection

IF

Invoke F-004 (Mass inflection) only with the source-defined inputs, scope, evidence and result dimension (mass). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $m_{\text{floor}} = 23 \text{ mg}$. Bind this formula ID to its typed value or invariant and source-specific tests. Existing language primitives are useful but do not constitute a complete formula contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

mass

REMAINING REQUIREMENT

Bind this formula ID to its typed value or invariant and source-specific tests. Existing language primitives are useful but do not constitute a complete formula contract.

SOURCE REFERENCES

D006 pp. 12,23,24; D011 pp. 2,13,14

Evidence: evidence/rerun/pending/F-004.json

TR-PINK-F-005 / Noise smoothing

IF

Invoke F-005 with exactly these inputs: previous: Real, current: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $n_bar[t] = 0.9 * n_bar[t-1] + 0.1 * n[t]$. Current Bangel expression: $0.9 * previous + 0.1 * current$. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"previous": "10", "current": "20"}; expected 11. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

dimensionless

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 12,25,26; D011 pp. 2,15,16

Evidence: evidence/rerun/pink/F-005.json

TR-PINK-F-006 / Trend estimator

IF

Invoke F-006 with exactly these inputs: previous_trend: Real, previous_smooth: Real, current_smooth: Real, dt: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $n_dot[t] = (2/3)*n_dot[t-1] + (1/3)*(n_bar[t]-n_bar[t-1])/dt$. Current Bangel expression: $(2.0 / 3.0) * previous_trend + (1.0 / 3.0) * ((current_smooth - previous_smooth) / dt)$. Require every input to be known. Require $dt > 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"previous_trend": "3", "previous_smooth": "10", "current_smooth": "16", "dt": "2"}; expected 3. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 4 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

1/time

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 12,27,28; D011 pp. 2,17,18

Evidence: evidence/rerun/pink/F-006.json

TR-PINK-F-007 / Anti-spike gate

IF

Invoke F-007 (Anti-spike gate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: support $\geq$ 3 of 5 AND 3 qualified windows. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D006 pp. 12,29,30; D011 pp. 2,19,20

Evidence: evidence/rerun/pending/F-007.json

TR-PINK-F-008 / Prediction gain

IF

Invoke F-008 with exactly these inputs: node: Int. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $g_i = 0.1 \cdot (2/3)^{(i-1)}$. Current Bangel expression: var gain: Real = 0.1
for index in [2, 3, 4, 5, 6, 7, 8, 9] limit 8
if node >= index
set gain = gain * (2.0 / 3.0)
end
end
emit result = gain. Require every input to be known. Require node >= 1 and node <= 9.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"node": 1}; expected 0.1. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 1 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

dimensionless

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 12,31,32; D011 pp. 2,21,22
Evidence: evidence/rerun/pink/F-008.json

TR-PINK-F-009 / Covariance update

IF

Invoke F-009 (Covariance update) only with the source-defined inputs, scope, evidence and result dimension (normalized^2). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $\text{Sigma_next} = 0.9 * \text{Sigma_prev} + 0.1 * e * e^T$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

normalized^2

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 33,34; D011 pp. 23,24

Evidence: evidence/rerun/pending/F-009.json

TR-PINK-F-010 / Shadow depth

IF

Invoke F-010 (Shadow depth) only with the source-defined inputs, scope, evidence and result dimension (normalized). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $H = \sqrt{\lambda_{\max}(\Sigma)}$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

normalized

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 35,36; D011 pp. 25,26

Evidence: evidence/rerun/pending/F-010.json

TR-PINK-F-011 / Shadow growth rate

IF

Invoke F-011 with exactly these inputs: next_depth: Real, previous_depth: Real, dt: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $v_shadow = (H_next - H_prev) / dt$. Current Bangel expression: $(next_depth - previous_depth) / dt$. Require every input to be known. Require $next_depth \geq 0.0$ and $previous_depth \geq 0.0$ and $dt > 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"next_depth": "7", "previous_depth": "3", "dt": "2"}; expected 2. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

normalized/time

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 37,38; D011 pp. 27,28
Evidence: evidence/rerun/pink/F-011.json

TR-PINK-F-012 / Front-end allocation

IF

Invoke F-012 with exactly these inputs: . Real values use finite decimal text; null remains unknown.

HOW

Source expression: $a0 = 48383829/100000000$. Current Bangel expression: $48383829.0 / 100000000.0$.
Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {}; expected 0.48383829. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 0 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

ratio

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 39,40; D011 pp. 29,30

Evidence: evidence/rerun/pink/F-012.json

TR-PINK-F-013 / Front-end reserve

IF

Invoke F-013 with exactly these inputs: . Real values use finite decimal text; null remains unknown.

HOW

Source expression: $r0 = 51616171/100000000$. Current Bangel expression: $51616171.0 / 100000000.0$. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {}; expected 0.51616171. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 0 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

ratio

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 41,42; D011 pp. 31,32

Evidence: evidence/rerun/pink/F-013.json

TR-PINK-F-014 / Bounded allocation update

IF

Invoke F-014 (Bounded allocation update) only with the source-defined inputs, scope, evidence and result dimension (ratio vector). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $w_{next} = projection((2/3)w + (1/3)w_{target})$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

ratio vector

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 43,44; D011 pp. 33,34

Evidence: evidence/rerun/pending/F-014.json

TR-PINK-F-015 / Request memory

IF

Invoke F-015 with exactly these inputs: rate: Real, bytes_per_request: Real, latency: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $M_{request} = \lambda_{hat} * bytes_per_request * latency_hat$. Current Bangel expression: $rate * bytes_per_request * latency$. Require every input to be known. Require $rate \geq 0.0$ and $bytes_per_request \geq 0.0$ and $latency \geq 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"rate": "10", "bytes_per_request": "100", "latency": "2"}; expected 2000. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

bytes

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 45,46; D011 pp. 35,36
Evidence: evidence/rerun/pink/F-015.json

TR-PINK-F-016 / Memory preallocation

IF

Invoke F-016 with exactly these inputs: request: Real, sync: Real, residual: Real, evidence: Real, headroom: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $M_{pre} = M_{request} + M_{sync} + M_{residual} + M_{evidence} + M_{headroom}$. Current Bangel expression: request + sync + residual + evidence + headroom. Require every input to be known. Require request ≥ 0.0 and sync ≥ 0.0 and residual ≥ 0.0 and evidence ≥ 0.0 and headroom ≥ 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"request": "10", "sync": "2", "residual": "3", "evidence": "4", "headroom": "5"}; expected 24. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 5 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

bytes

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 47,48; D011 pp. 37,38
Evidence: evidence/rerun/pink/F-016.json

TR-PINK-F-017 / Hard flush

IF

Invoke F-017 (Hard flush) only with the source-defined inputs, scope, evidence and result dimension (state sequence). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: QUIESCE -> SEAL -> CHECKPOINT -> DETACH -> RECLAIM. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

state sequence

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D006 pp. 49,50; D011 pp. 39,40

Evidence: evidence/rerun/pending/F-017.json

TR-PINK-F-018 / Charge balance

IF

Invoke F-018 with exactly these inputs: intake: Real, leak: Real, release: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $dQ/dt = I_{\text{intake}} - I_{\text{leak}} - I_{\text{release}}$. Current Bangel expression: intake - leak - release. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"intake": "10", "leak": "2", "release": "3"}; expected 5. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

charge/time

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 51,52; D011 pp. 41,42

Evidence: evidence/rerun/pink/F-018.json

TR-PINK-F-019 / Capacitor energy

IF

Invoke F-019 with exactly these inputs: capacitance: Real, voltage: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $E = 0.5 * C * V^2$. Current Bangel expression: $0.5 * \text{capacitance} * \text{voltage} * \text{voltage}$. Require every input to be known. Require capacitance ≥ 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"capacitance": "2", "voltage": "3"}; expected 9. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 53,54; D011 pp. 43,44

Evidence: evidence/rerun/pink/F-019.json

TR-PINK-F-020 / General stored energy

IF

Invoke F-020 (General stored energy) only with the source-defined inputs, scope, evidence and result dimension (energy). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $E = \text{integral } V(q)dq$. Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

SOURCE REFERENCES

D006 pp. 55,56; D011 pp. 45,46

Evidence: evidence/rerun/pending/F-020.json

TR-PINK-F-021 / Energy balance

IF

Invoke F-021 with exactly these inputs: energy_in: Real, storage_delta: Real, delivered: Real, containment: Real, loss: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $r_E = E_{in} - \Delta E_{storage} - E_{delivered} - E_{containment} - E_{loss}$. Current Bangel expression: energy_in - storage_delta - delivered - containment - loss. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"energy_in": "100", "storage_delta": "10", "delivered": "60", "containment": "5", "loss": "25"}; expected 0. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 5 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 57,58; D011 pp. 47,48
Evidence: evidence/rerun/pink/F-021.json

TR-PINK-F-022 / Mass balance

IF

Invoke F-022 with exactly these inputs: initial: Real, incoming: Real, final: Real, outgoing: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $r_M = M_{\text{initial}} + M_{\text{inputs}} - M_{\text{final}} - M_{\text{outputs}}$. Current Bangel expression: initial + incoming - final - outgoing. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"initial": "10", "incoming": "2", "final": "9", "outgoing": "3"}; expected 0. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 4 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

mass

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 59,60; D011 pp. 49,50
Evidence: evidence/rerun/pink/F-022.json

TR-PINK-F-023 / EVE screen balance

IF

Invoke F-023 with exactly these inputs: screen_in: Real, captured: Real, passed: Real, retained: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $M_{\text{screen_in}} = M_{\text{captured}} + M_{\text{passed}} + M_{\text{retained}} + r_{\text{screen}}$. Current Bangel expression: $\text{screen_in} - \text{captured} - \text{passed} - \text{retained}$. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"screen_in": "10", "captured": "4", "passed": "3", "retained": "3"}; expected 0. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 4 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

mass

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 61,62; D011 pp. 51,52
Evidence: evidence/rerun/pink/F-023.json

TR-PINK-F-024 / EVE evaporation

IF

Invoke F-024 (EVE evaporation) only with the source-defined inputs, scope, evidence and result dimension (mass). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $M_{\text{evap}} = \text{integral integral } J_m \text{ dA dt}$. Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

mass

REMAINING REQUIREMENT

Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

SOURCE REFERENCES

D006 pp. 63,64; D011 pp. 53,54

Evidence: evidence/rerun/pending/F-024.json

TR-PINK-F-025 / Upward force

IF

Invoke F-025 with exactly these inputs: charge: Real, electric_field: Real, buoyancy: Real, mass: Real, gravity: Real, drag: Real, contact: Real, adhesion: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $F_z = qE_z + F_b - mg - D_z - F_{contact} - F_{adhesion}$. Current Bangel expression: $charge * electric_field + buoyancy - mass * gravity - drag - contact - adhesion$. Require every input to be known. Require $mass \geq 0.0$ and $gravity \geq 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"charge": "2", "electric_field": "3", "buoyancy": "20", "mass": "1", "gravity": "10", "drag": "2", "contact": "1", "adhesion": "1"}; expected 12. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 8 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

force

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 65,66; D011 pp. 55,56
Evidence: evidence/rerun/pink/F-025.json

TR-PINK-F-026 / Coordinate mapping

IF

Invoke F-026 (Coordinate mapping) only with the source-defined inputs, scope, evidence and result dimension (length vector). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $p_P(x,y,z)=o_P+x*a_P+y*b_P+z*c_P$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

length vector

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 67,68; D011 pp. 57,58

Evidence: evidence/rerun/pending/F-026.json

TR-PINK-F-027 / Sister physical umbrella count

IF

Invoke F-027 (Sister physical umbrella count) only with the source-defined inputs, scope, evidence and result dimension (count). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $N_U = \max_k \text{ceil}(E_k / ((1-h_k) * C_{Uk}))$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

count

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 69,70; D011 pp. 59,60

Evidence: evidence/rerun/pending/F-027.json

TR-PINK-F-028 / Byte balance

IF

Invoke F-028 with exactly these inputs: allocated: Real, active: Real, released: Real, retained: Real, exported: Real, compacted: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $r_B = B_alloc - B_active - B_released - B_retained - B_exported - B_compacted$. Current Bangel expression: $allocated - active - released - retained - exported - compacted$. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"allocated": "100", "active": "40", "released": "20", "retained": "10", "exported": "20", "compacted": "10"}; expected 0. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 6 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

bytes

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 71,72; D011 pp. 61,62
Evidence: evidence/rerun/pink/F-028.json

TR-PINK-F-029 / Residual consequence

IF

Invoke F-029 (Residual consequence) only with the source-defined inputs, scope, evidence and result dimension (byte-seconds). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $C_B = \text{integral } B_{\text{residual}}(t)dt$. Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

byte-seconds

REMAINING REQUIREMENT

Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

SOURCE REFERENCES

D006 pp. 73,74; D011 pp. 63,64

Evidence: evidence/rerun/pending/F-029.json

TR-PINK-F-030 / Protected liquidity

IF

Invoke F-030 with exactly these inputs: near: Real, emergency: Real, tax: Real, fees: Real, uncertainty: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $L_{protected_H} = O_{near_H} + R_{emergency_H} + R_{tax_H} + R_{fees_H} + U_{cash_H}$. Current Bangel expression: near + emergency + tax + fees + uncertainty. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"near": "10", "emergency": "20", "tax": "3", "fees": "4", "uncertainty": "5"}; expected 42. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 5 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

currency

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 75,76; D011 pp. 65,66

Evidence: evidence/rerun/pink/F-030.json

TR-PINK-F-031 / Investable surplus

IF

Invoke F-031 with exactly these inputs: available: Real, protected: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $S_{investable_L} = \max(0, L_{available_L} - L_{protected_H})$. Current Bangel expression: `math.max(0.0, available - protected)`. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific `PINK_MISSING_*` HOLD; failed profile checks produce `PINK_DOMAIN`. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs `{"available": "50", "protected": "60"}`; expected 0. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

currency

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 77,78; D011 pp. 67,68
Evidence: `evidence/rerun/pink/F-031.json`

TR-PINK-F-032 / Risk-capital ceiling

IF

Invoke F-032 with exactly these inputs: investable: Real, risk: Real, product: Real, regulatory: Real, custody: Real, concentration: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $A_{risk_max} = \min(S_{investable_L}, L_{risk}, L_{product}, L_{regulatory}, L_{custody}, L_{concentration})$. Current Bangel expression: $\text{math.min}(\text{math.min}(\text{math.min}(\text{investable}, \text{risk}), \text{math.min}(\text{product}, \text{regulatory})), \text{math.min}(\text{custody}, \text{concentration}))$. Require every input to be known. Require investable ≥ 0.0 and risk ≥ 0.0 and product ≥ 0.0 and regulatory ≥ 0.0 and custody ≥ 0.0 and concentration ≥ 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"investable": "90", "risk": "80", "product": "70", "regulatory": "60", "custody": "50", "concentration": "40"}; expected 40. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 6 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

currency

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 79,80; D011 pp. 69,70
Evidence: evidence/rerun/pink/F-032.json

TR-PINK-F-033 / Portfolio concentration

IF

Invoke F-033 with exactly these inputs: asset_high: Real, portfolio_low: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $C_i = \text{abs}(V_i_H)/V_{\text{portfolio_L}}$. Current Bangel expression: `math.abs(asset_high) / portfolio_low`. Require every input to be known. Require `portfolio_low > 0.0`.

THEN

Emit the scoped calculation result. Missing inputs produce their specific `PINK_MISSING_* HOLD`; failed profile checks produce `PINK_DOMAIN`. A false numeric predicate can occur in a `PASS` calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs `{"asset_high": "-25", "portfolio_low": "100"}`; expected 0.25. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

ratio

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 81,82; D011 pp. 71,72
Evidence: `evidence/rerun/pink/F-033.json`

TR-PINK-F-034 / Portfolio variance

IF

Invoke F-034 (Portfolio variance) only with the source-defined inputs, scope, evidence and result dimension (return^2). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $\sigma_p^2 = w^T \Sigma w$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

return^2

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 83,84; D011 pp. 73,74

Evidence: evidence/rerun/pending/F-034.json

TR-PINK-F-035 / Capital friction

IF

Invoke F-035 with exactly these inputs: fees: Real, spread: Real, slippage: Real, tax: Real, custody: Real, compliance: Real, latency: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $F_{capital_H} = fees + spread + slippage + tax + custody + compliance + latency$. Current Bangel expression: $fees + spread + slippage + tax + custody + compliance + latency$. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"fees": "1", "spread": "2", "slippage": "3", "tax": "4", "custody": "5", "compliance": "6", "latency": "7"}; expected 28. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 7 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

currency

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 85,86; D011 pp. 75,76
Evidence: evidence/rerun/pink/F-035.json

TR-PINK-F-036 / Opportunity lower bound

IF

Invoke F-036 with exactly these inputs: return_low: Real, friction: Real, risk: Real, liquidity: Real, regulatory: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $O_L = \text{Return}_L - F_{\text{capital}_H} - \text{RiskPenalty}_H - \text{LiquidityPenalty}_H - \text{RegulatoryUncertainty}_H$.
Current Bangel expression: return_low - friction - risk - liquidity - regulatory. Require every input to be known.
No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"return_low": "100", "friction": "5", "risk": "10", "liquidity": "20", "regulatory": "2"}; expected 63. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 5 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

currency

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 87,88; D011 pp. 77,78
Evidence: evidence/rerun/pink/F-036.json

TR-PINK-F-037 / Abundance objective

IF

Invoke F-037 (Abundance objective) only with the source-defined inputs, scope, evidence and result dimension (declared score). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $A = \sum(\alpha_i P_i) - \sum(\beta_j N_j)$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

declared score

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 89,90; D011 pp. 79,80

Evidence: evidence/rerun/pending/F-037.json

TR-PINK-F-038 / SHIVAS eligible value

IF

Invoke F-038 with exactly these inputs: verified: Real, liabilities: Real, uncertainty: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $V_{eligible_L} = \max(0, V_{verified_L} - L_{known_H} - U_{valuation_H})$. Current Bangel expression: `math.max(0.0, verified - liabilities - uncertainty)`. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific `PINK_MISSING_*` HOLD; failed profile checks produce `PINK_DOMAIN`. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs `{"verified": "100", "liabilities": "80", "uncertainty": "30"}`; expected 0. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

currency

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 91,92; D011 pp. 81,82

Evidence: `evidence/rerun/pink/F-038.json`

TR-PINK-F-039 / SHIVAS ceiling

IF

Invoke F-039 (SHIVAS ceiling) only with the source-defined inputs, scope, evidence and result dimension (count). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $N_{max} = \text{floor}(V_{eligible_L}/B_{unit_H})$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

count

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 93,94; D011 pp. 83,84

Evidence: evidence/rerun/pending/F-039.json

TR-PINK-F-040 / MK state model

IF

Invoke F-040 (MK state model) only with the source-defined inputs, scope, evidence and result dimension (typed state). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $x[t+1]=F(x[t],u[t],\theta,e[t])+w[t]$; $y[t]=H(x[t])+v[t]$. The expression names a model or transition function. Recover its normative definition, inputs, state and failure behavior before implementing it.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

typed state

REMAINING REQUIREMENT

The expression names a model or transition function. Recover its normative definition, inputs, state and failure behavior before implementing it.

SOURCE REFERENCES

D006 pp. 95,96; D011 pp. 85,86

Evidence: evidence/rerun/pending/F-040.json

TR-PINK-F-041 / Dimensional integrity

IF

Invoke F-041 (Dimensional integrity) only with the source-defined inputs, scope, evidence and result dimension (dimension equality). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $\text{dim(LHS)}=\text{dim(RHS)}$. Bind this formula ID to its typed value or invariant and source-specific tests. Existing language primitives are useful but do not constitute a complete formula contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

dimension equality

REMAINING REQUIREMENT

Bind this formula ID to its typed value or invariant and source-specific tests. Existing language primitives are useful but do not constitute a complete formula contract.

SOURCE REFERENCES

D006 pp. 97,98; D011 pp. 87,88

Evidence: evidence/rerun/pending/F-041.json

TR-PINK-F-042 / Conservation residual

IF

Invoke F-042 with exactly these inputs: incoming: Real, outgoing: Real, stored: Real, loss: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $r_q = q_{in} - q_{out} - \Delta q - q_{loss}$. Current Bangel expression: incoming - outgoing - stored - loss. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"incoming": "100", "outgoing": "60", "stored": "30", "loss": "10"}; expected 0. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 4 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

quantity

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 99,100; D011 pp. 89,90

Evidence: evidence/rerun/pink/F-042.json

TR-PINK-F-043 / Pearl simulation ellipsoid volume

IF

Invoke F-043 (Pearl simulation ellipsoid volume) only with the source-defined inputs, scope, evidence and result dimension (volume). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $V_P = (4/3) \cdot \pi \cdot a \cdot b \cdot c$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

volume

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 101,102; D011 pp. 91,92

Evidence: evidence/rerun/pending/F-043.json

TR-PINK-F-044 / Pearl simulation surface-area approximation

IF

Invoke F-044 (Pearl simulation surface-area approximation) only with the source-defined inputs, scope, evidence and result dimension (area). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $A_P \sim 4 \pi ((a^p b^p + a^p c^p + b^p c^p) / 3)^{(1/p)}$, $p=1.6075$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

area

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 103,104; D011 pp. 93,94
Evidence: evidence/rerun/pending/F-044.json

TR-PINK-F-045 / Pearl simulation exposure ratio

IF

Invoke F-045 with exactly these inputs: area: Real, volume: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $\chi_P = A_P / V_P$. Current Bangel expression: area / volume. Require every input to be known. Require area ≥ 0.0 and volume > 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"area": "12", "volume": "3"}; expected 4. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

1/length

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 105,106; D011 pp. 95,96
Evidence: evidence/rerun/pink/F-045.json

TR-PINK-F-046 / Pearl simulation capacity slack

IF

Invoke F-046 with exactly these inputs: headroom: Real, capacity: Real, load: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $S_{Pk} = (1 - h_{Pk}) * C_{Pk} - L_{Pk}$. Current Bangel expression: $(1.0 - \text{headroom}) * \text{capacity} - \text{load}$. Require every input to be known. Require headroom ≥ 0.0 and headroom < 1.0 and capacity > 0.0 and load ≥ 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"headroom": "0.1", "capacity": "100", "load": "60"}; expected 30. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

quantity_k

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 107,108; D011 pp. 97,98
Evidence: evidence/rerun/pink/F-046.json

TR-PINK-F-047 / Pearl simulation saturation ratio

IF

Invoke F-047 (Pearl simulation saturation ratio) only with the source-defined inputs, scope, evidence and result dimension (ratio). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $\text{beta_P} = \max_k(L_Pk / ((1 - h_Pk) * C_Pk))$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

ratio

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 109,110; D011 pp. 99,100

Evidence: evidence/rerun/pending/F-047.json

TR-PINK-F-048 / Pearl simulation object count

IF

Invoke F-048 (Pearl simulation object count) only with the source-defined inputs, scope, evidence and result dimension (count). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $N_P = \max_k \text{ceil}(E_k / ((1 - h_{Pk}) * C_{Pk}))$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

count

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 111,112; D011 pp. 101,102

Evidence: evidence/rerun/pending/F-048.json

TR-PINK-F-049 / Pearl simulation accounting balance

IF

Invoke F-049 with exactly these inputs: incoming: Real, captured: Real, transferred: Real, retained: Real, escaped: Real, stored_delta: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $r_{Pk}=q_{in}-q_{captured}-q_{transferred}-q_{retained}-q_{escaped}-\Delta q_{stored}$. Current Bangel expression: incoming - captured - transferred - retained - escaped - stored_delta. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"incoming": "100", "captured": "10", "transferred": "20", "retained": "30", "escaped": "5", "stored_delta": "35"}; expected 0. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 6 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

quantity_k

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 113,114; D011 pp. 103,104

Evidence: evidence/rerun/pink/F-049.json

TR-PINK-F-050 / Pearl simulated transfer opportunity

IF

Invoke F-050 with exactly these inputs: destination_slack: Real, available: Real, reserve: Real, route_capacity: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $T_{ij,k} = \min([S_{jk}]_+, [Q_{ik} - Q_{reserve_ik}]_+, C_{route_k})$. Current Bangel expression: `math.min(math.max(0.0, destination_slack), math.min(math.max(0.0, available - reserve), route_capacity))`. Require every input to be known. Require destination_slack >= 0.0 and available >= 0.0 and reserve >= 0.0 and route_capacity >= 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"destination_slack": "20", "available": "50", "reserve": "10", "route_capacity": "15"}; expected 15. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 4 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

quantity_k

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 11,15,115,116; D011 pp. 1,5,105,106

Evidence: evidence/rerun/pink/F-050.json

TR-PINK-F-051 / Pearl simulated regeneration vector

IF

Invoke F-051 (Pearl simulated regeneration vector) only with the source-defined inputs, scope, evidence and result dimension (typed vector). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $G_P=[G_mass,G_energy,G_bytes,G_time,G_capital]$. Bind this formula ID to its typed value or invariant and source-specific tests. Existing language primitives are useful but do not constitute a complete formula contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

typed vector

REMAINING REQUIREMENT

Bind this formula ID to its typed value or invariant and source-specific tests. Existing language primitives are useful but do not constitute a complete formula contract.

SOURCE REFERENCES

D006 pp. 117,118,121,123,124; D012 pp. 1,2,5,7,8

Evidence: evidence/rerun/pending/F-051.json

TR-PINK-F-052 / Pearl acoustic simulation wavelength

IF

Invoke F-052 with exactly these inputs: speed: Real, frequency: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $\lambda_{ac} = c_{medium} / f_{control}$. Current Bangel expression: speed / frequency. Require every input to be known. Require speed > 0.0 and frequency > 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"speed": "340", "frequency": "170"}; expected 2. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

length

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 118,125,126; D012 pp. 2,9,10

Evidence: evidence/rerun/pink/F-052.json

TR-PINK-F-053 / Pearl acoustic simulation intensity

IF

Invoke F-053 with exactly these inputs: pressure: Real, density: Real, speed: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $I_{ac}=p_{rms}^2/(\rho_{medium}*c_{medium})$. Current Bangel expression: pressure * pressure / (density * speed). Require every input to be known. Require pressure ≥ 0.0 and density > 0.0 and speed > 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"pressure": "2", "density": "1", "speed": "4"}; expected 1. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

power/area

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 118,127,128; D012 pp. 2,11,12

Evidence: evidence/rerun/pink/F-053.json

TR-PINK-F-054 / Pearl acoustic simulation energy

IF

Invoke F-054 (Pearl acoustic simulation energy) only with the source-defined inputs, scope, evidence and result dimension (energy). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $E_{ac} = \int I_{ac} \cdot A_{effective} dt$. Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

SOURCE REFERENCES

D006 pp. 118,129,130; D012 pp. 2,13,14

Evidence: evidence/rerun/pending/F-054.json

TR-PINK-F-055 / Pearl acoustic simulation observability gate

IF

Invoke F-055 (Pearl acoustic simulation observability gate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $f_sample \geq 2 * \gamma * f_control$ AND $f_control$ in calibrated_band AND $SNR_f \geq SNR_min$. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D006 pp. 118,131,132; D012 pp. 2,15,16

Evidence: evidence/rerun/pending/F-055.json

TR-PINK-F-056 / Pearl acoustic simulation signal-to-noise

IF

Invoke F-056 with exactly these inputs: signal: Real, noise: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $SNR_f = P_{signal}(f) / P_{noise}(f)$. Current Bangel expression: signal / noise. Require every input to be known. Require signal ≥ 0.0 and noise > 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"signal": "10", "noise": "2"}; expected 5. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

ratio

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 118,133,134; D012 pp. 2,17,18

Evidence: evidence/rerun/pink/F-056.json

TR-PINK-F-057 / Pearl acoustic simulation transfer function

IF

Invoke F-057 (Pearl acoustic simulation transfer function) only with the source-defined inputs, scope, evidence and result dimension (output/input). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $H_P(f)=Y_P(f)/U_P(f)$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

output/input

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 118,135,136; D012 pp. 2,19,20

Evidence: evidence/rerun/pending/F-057.json

TR-PINK-F-058 / Pearl acoustic simulation setpoint

IF

Invoke F-058 (Pearl acoustic simulation setpoint) only with the source-defined inputs, scope, evidence and result dimension (frequency). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $f^* = \operatorname{argmin}_{\{f \text{ in } F_{\text{safe}}\}} (J_{\text{breach}} + \lambda_E E_{\text{ac}} + \lambda_T T_{\text{transfer}})$. Implement the bounded graph/path/selection algorithm with its complete input set, eligibility rules, tie/failure behavior and relevant evidence.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

frequency

REMAINING REQUIREMENT

Implement the bounded graph/path/selection algorithm with its complete input set, eligibility rules, tie/failure behavior and relevant evidence.

SOURCE REFERENCES

D006 pp. 118,137,138; D012 pp. 2,21,22

Evidence: evidence/rerun/pending/F-058.json

TR-PINK-F-059 / Bounded Pearl acoustic simulation adjustment

IF

Invoke F-059 with exactly these inputs: frequency: Real, target: Real, step_limit: Real, minimum: Real, maximum: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $f_{next} = clip((2/3)f + (1/3)f_{target}, f - df_{max}, f + df_{max}, f_{min}, f_{max})$. Current Bangel expression: $math.min(math.min(maximum, frequency + step_limit), math.max(math.max(minimum, frequency - step_limit), (2.0 * frequency + target) / 3.0))$. Require every input to be known. Require minimum ≥ 0.0 and maximum $\geq$ minimum and frequency $\geq$ minimum and frequency $\leq$ maximum and step_limit ≥ 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"frequency": "90", "target": "120", "step_limit": "5", "minimum": "80", "maximum": "100"}; expected 95. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 5 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

frequency

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 139,140; D012 pp. 23,24

Evidence: evidence/rerun/pink/F-059.json

TR-PINK-F-060 / Pearl simulation registry reconciliation

IF

Invoke F-060 with exactly these inputs: allocated: Real, received: Real, transferred: Real, closed: Real, active: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $r_registry = N_allocated + N_received - N_transferred - N_closed - N_active$. Current Bangel expression: $allocated + received - transferred - closed - active$. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"allocated": "10", "received": "2", "transferred": "3", "closed": "1", "active": "8"}; expected 0. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 5 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

count

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 141,142; D012 pp. 25,26

Evidence: evidence/rerun/pink/F-060.json

TR-PINK-F-061 / Bangel Sheet cell state

IF

Invoke F-061 (Bangel Sheet cell state) only with the source-defined inputs, scope, evidence and result dimension (typed object). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly:
C_ij=<value,unit,uncertainty,formula,revision,lineage,authority,evidence>. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

typed object

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D006 pp. 143,144; D012 pp. 27,28

Evidence: evidence/rerun/pending/F-061.json

TR-PINK-F-062 / Affected dependency closure

IF

Invoke F-062 (Affected dependency closure) only with the source-defined inputs, scope, evidence and result dimension (cell set). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $A(U)=Reachable_G(U)$. Implement the bounded graph/path/selection algorithm with its complete input set, eligibility rules, tie/failure behavior and relevant evidence.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

cell set

REMAINING REQUIREMENT

Implement the bounded graph/path/selection algorithm with its complete input set, eligibility rules, tie/failure behavior and relevant evidence.

SOURCE REFERENCES

D006 pp. 145,146; D012 pp. 29,30

Evidence: evidence/rerun/pending/F-062.json

TR-PINK-F-063 / Incremental recompute cost

IF

Invoke F-063 (Incremental recompute cost) only with the source-defined inputs, scope, evidence and result dimension (work units). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $C_{recalc} = \sum_{v \in A} c_v + \sum_{e \in E(A)} t_e$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

work units

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 147,148; D012 pp. 31,32

Evidence: evidence/rerun/pending/F-063.json

TR-PINK-F-064 / Concurrent edit arrival

IF

Invoke F-064 with exactly these inputs: users: Real, updates_per_user: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $\lambda_{total} = N_{users} * \lambda_{user}$. Current Bangel expression: $users * updates_per_user$. Require every input to be known. Require $users \geq 0.0$ and $updates_per_user \geq 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"users": "10", "updates_per_user": "2"}; expected 20. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

operations/time

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 149,150; D012 pp. 33,34
Evidence: evidence/rerun/pink/F-064.json

TR-PINK-F-065 / Spreadsheet service utilization

IF

Invoke F-065 with exactly these inputs: arrival: Real, workers: Real, service_rate: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $\rho = \lambda_{total} / (W * \mu_{worker})$. Current Bangel expression: $arrival / (workers * service_rate)$. Require every input to be known. Require $arrival \geq 0.0$ and $workers > 0.0$ and $service_rate > 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"arrival": "20", "workers": "4", "service_rate": "10"}; expected 0.5. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

ratio

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 151,152; D012 pp. 35,36
Evidence: evidence/rerun/pink/F-065.json

TR-PINK-F-066 / Spreadsheet worker requirement

IF

Invoke F-066 (Spreadsheet worker requirement) only with the source-defined inputs, scope, evidence and result dimension (count). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $W_{min} = \text{ceil}(\lambda_{total} / (\rho_{max} * \mu_{worker}))$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

count

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 153,154; D012 pp. 37,38

Evidence: evidence/rerun/pending/F-066.json

TR-PINK-F-067 / Recalculation latency

IF

Invoke F-067 (Recalculation latency) only with the source-defined inputs, scope, evidence and result dimension (time). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $T_{recalc}=T_{parse}+T_{dependency}+max_p(T_{partition},p)+T_{commit}$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

time

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 155,156; D012 pp. 39,40

Evidence: evidence/rerun/pending/F-067.json

TR-PINK-F-068 / Spreadsheet data cost

IF

Invoke F-068 with exactly these inputs: stored: Real, store_cost: Real, transferred: Real, transfer_cost: Real, cpu_time: Real, cpu_cost: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $C_data = B_store * c_store + B_transfer * c_transfer + t_cpu * c_cpu$. Current Bangel expression: $stored * store_cost + transferred * transfer_cost + cpu_time * cpu_cost$. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"stored": "10", "store_cost": "2", "transferred": "3", "transfer_cost": "4", "cpu_time": "5", "cpu_cost": "6"}; expected 62. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 6 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

cost unit

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 157,158; D012 pp. 41,42
Evidence: evidence/rerun/pink/F-068.json

TR-PINK-F-069 / Pearl simulation partition objective

IF

Invoke F-069 (Pearl simulation partition objective) only with the source-defined inputs, scope, evidence and result dimension (declared score). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly:
 $J_{\text{partition}} = \alpha * \max_p(L_p) + \beta * \text{sum_cut}(w_e) + \gamma * R_{\text{breach}} + \delta * R_{\text{stale}}$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

declared score

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 159,160; D012 pp. 43,44

Evidence: evidence/rerun/pending/F-069.json

TR-PINK-F-070 / Sheet revision root

IF

Invoke F-070 (Sheet revision root) only with the source-defined inputs, scope, evidence and result dimension (digest). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $H_{rev} = \text{SHA256}(\text{parent_root} || \text{canonical_deltas} || \text{policy_epoch})$. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

digest

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D006 pp. 161,162; D012 pp. 45,46

Evidence: evidence/rerun/pending/F-070.json

TR-PINK-F-071 / Audit-particle completeness

IF

Invoke F-071 (Audit-particle completeness) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: AuditPass=AND(required_fields_present,receipts_valid). Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D006 pp. 163,164; D012 pp. 47,48

Evidence: evidence/rerun/pending/F-071.json

TR-PINK-F-072 / Iterative recalculation stability

IF

Invoke F-072 (Iterative recalculation stability) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $\text{spectral_radius}(J_F) < 1$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 165,166; D012 pp. 49,50

Evidence: evidence/rerun/pending/F-072.json

TR-PINK-F-073 / Revision conflict gate

IF

Invoke F-073 (Revision conflict gate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: `base_revision=``head_revision` OR `valid_merge_receipt`. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with `PAPER_PROFILE_UNIMPLEMENTED`. The Teal assertion gate holds when `method/proof` is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D006 pp. 167,168; D012 pp. 51,52

Evidence: `evidence/rerun/pending/F-073.json`

TR-PINK-F-074 / Freshness age

IF

Invoke F-074 with exactly these inputs: now: Real, observed: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: Age=now-observed_at. Current Bangel expression: now - observed. Require every input to be known. Require now >= observed.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"now": "100", "observed": "85"}; expected 15. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

time

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 169,170; D012 pp. 53,54
Evidence: evidence/rerun/pink/F-074.json

TR-PINK-F-075 / Staleness gate

IF

Invoke F-075 with exactly these inputs: age: Real, freshness_limit: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $\text{Age} \leq \text{freshness_limit}$. Current Bangel expression: $\text{age} \leq \text{freshness_limit}$. Require every input to be known. Require $\text{age} \geq 0.0$ and $\text{freshness_limit} \geq 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"age": "15", "freshness_limit": "20"}; expected true. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 171,172; D012 pp. 55,56
Evidence: evidence/rerun/pink/F-075.json

TR-PINK-F-076 / Data-performance correlation

IF

Invoke F-076 with exactly these inputs: covariance: Real, sigma_x: Real, sigma_y: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $r_{xy} = \text{Cov}(X,Y) / (\sigma_x \cdot \sigma_y)$. Current Bangel expression: covariance / (sigma_x * sigma_y). Require every input to be known. Require sigma_x > 0.0 and sigma_y > 0.0 and $\text{math.abs}(\text{covariance}) \leq \sigma_x \cdot \sigma_y$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"covariance": "-6", "sigma_x": "2", "sigma_y": "3"}; expected -1. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

ratio

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 173,174; D012 pp. 57,58

Evidence: evidence/rerun/pink/F-076.json

TR-PINK-F-077 / Silo unification gate

IF

Invoke F-077 (Silo unification gate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: UnifiedMetric=SameMeaning AND SameUnit AND SamePeriod AND SameAuthority AND SameLineage. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D006 pp. 175,176; D012 pp. 59,60

Evidence: evidence/rerun/pending/F-077.json

TR-PINK-F-078 / Formula verification residual

IF

Invoke F-078 with exactly these inputs: reported: Real, recomputed: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $r_formula=y_reported-y_recomputed$. Current Bangel expression: reported - recomputed. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"reported": "12", "recomputed": "10"}; expected 2. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

output unit

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 177,178; D012 pp. 61,62
Evidence: evidence/rerun/pink/F-078.json

TR-PINK-F-079 / Operational intake completeness

IF

Invoke F-079 (Operational intake completeness) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: IntakePass=process_defined AND users_known AND workload_known AND SLA_known AND authority_known. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D006 pp. 179,180; D012 pp. 63,64

Evidence: evidence/rerun/pending/F-079.json

TR-PINK-F-080 / Spreadsheet capacity gate

IF

Invoke F-080 (Spreadsheet capacity gate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $\lambda_{total} \leq \rho_{max} * \sum_p(\mu_p)$ AND $memory_{required} \leq memory_{available}$ AND $cross_partition_edges \leq cut_limit$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 181,182; D012 pp. 65,66
Evidence: evidence/rerun/pending/F-080.json

TR-PINK-F-081 / First-noise rectangle height

IF

Invoke F-081 with exactly these inputs: noise_height: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $H_R=h_{noise},1$. Current Bangel expression: noise_height. Require every input to be known. Require noise_height > 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"noise_height": "3"}; expected 3. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 1 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

length

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 183,184; D012 pp. 67,68
Evidence: evidence/rerun/pink/F-081.json

TR-PINK-F-082 / Reference gas density

IF

Invoke F-082 with exactly these inputs: pressure: Real, molar_mass: Real, compressibility: Real, gas_constant: Real, temperature: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $\rho_g = P \cdot M / (Z \cdot R \cdot T)$. Current Bangel expression: $\text{pressure} * \text{molar_mass} / (\text{compressibility} * \text{gas_constant} * \text{temperature})$. Require every input to be known. Require $\text{pressure} > 0.0$ and $\text{molar_mass} > 0.0$ and $\text{compressibility} > 0.0$ and $\text{gas_constant} > 0.0$ and $\text{temperature} > 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"pressure": "100", "molar_mass": "2", "compressibility": "1", "gas_constant": "4", "temperature": "5"}; expected 10. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 5 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

mass/volume

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 185,186; D012 pp. 69,70

Evidence: evidence/rerun/pink/F-082.json

TR-PINK-F-083 / 24 mg reference volume

IF

Invoke F-083 with exactly these inputs: reference_density: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $V_{24}=m_{24}/\rho_{ref}$. Current Bangel expression: $0.000024 / \text{reference_density}$. Require every input to be known. Require reference_density > 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"reference_density": "2"}; expected 0.000012. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 1 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

volume

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 187,188; D012 pp. 71,72
Evidence: evidence/rerun/pink/F-083.json

TR-PINK-F-084 / Rectangle depth

IF

Invoke F-084 with exactly these inputs: volume: Real, width: Real, height: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $D_R = V_{24} / (W_R * H_R)$. Current Bangel expression: volume / (width * height). Require every input to be known. Require volume > 0.0 and width > 0.0 and height > 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"volume": "24", "width": "3", "height": "2"}; expected 4. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

length

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 189,190; D012 pp. 73,74

Evidence: evidence/rerun/pink/F-084.json

TR-PINK-F-085 / Cone height ratio

IF

Invoke F-085 with exactly these inputs: height_ratio: Real, rectangle_height: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $H_C = k_H \cdot H_R$; $k_H, std = 2$. Current Bangel expression: height_ratio * rectangle_height. Require every input to be known. Require height_ratio > 0.0 and rectangle_height > 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"height_ratio": "2", "rectangle_height": "3"}; expected 6. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

length

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 191,192; D012 pp. 75,76
Evidence: evidence/rerun/pink/F-085.json

TR-PINK-F-086 / Cone top-width ratio

IF

Invoke F-086 with exactly these inputs: width_ratio: Real, bottom_width: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $W_T = k_W \cdot W_B$; $k_W, std = 2$. Current Bangel expression: width_ratio * bottom_width. Require every input to be known. Require width_ratio > 0.0 and bottom_width > 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"width_ratio": "2", "bottom_width": "4"}; expected 8. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

length

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 193,194; D012 pp. 77,78
Evidence: evidence/rerun/pink/F-086.json

TR-PINK-F-087 / Cone area by height

IF

Invoke F-087 with exactly these inputs: base_area: Real, width_ratio: Real, height: Real, cone_height: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $A(z)=A_B*(1+(k_W-1)*z/H_C)^2$. Current Bangel expression: $base_area * (1.0 + (width_ratio - 1.0) * height / cone_height) * (1.0 + (width_ratio - 1.0) * height / cone_height)$. Require every input to be known. Require $base_area > 0.0$ and $width_ratio > 0.0$ and $cone_height > 0.0$ and $height \geq 0.0$ and $height \leq cone_height$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"base_area": "4", "width_ratio": "2", "height": "3", "cone_height": "6"}; expected 9. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 4 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

area

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 195,196; D012 pp. 79,80
Evidence: evidence/rerun/pink/F-087.json

TR-PINK-F-088 / Cone partial volume

IF

Invoke F-088 with exactly these inputs: base_area: Real, width_ratio: Real, height: Real, cone_height: Real.
Real values use finite decimal text; null remains unknown.

HOW

Source expression: $V_C(z)=A_B(z+(k_W-1)z^2/H_C+(k_W-1)^2z^3/(3H_C^2))$. Current Bangel expression:
 $base_area * (height + (width_ratio - 1.0) * height * height / cone_height + (width_ratio - 1.0) * (width_ratio - 1.0) * height * height * height / (3.0 * cone_height * cone_height))$. Require every input to be known. Require
 $base_area > 0.0$ and $width_ratio > 0.0$ and $cone_height > 0.0$ and $height \geq 0.0$ and $height \leq cone_height$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"base_area": "3", "width_ratio": "2", "height": "3", "cone_height": "3"}; expected 21. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 4 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

volume

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 197,198; D012 pp. 81,82
Evidence: evidence/rerun/pink/F-088.json

TR-PINK-F-089 / Full conical-frustum volume

IF

Invoke F-089 with exactly these inputs: height: Real, base_area: Real, top_area: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $V_C = H_C / 3 * (A_B + \sqrt{A_B * A_T} + A_T)$. Current Bangel expression: height / 3.0 * (base_area + math.sqrt(base_area * top_area) + top_area). Require every input to be known. Require height > 0.0 and base_area > 0.0 and top_area > 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"height": "3", "base_area": "4", "top_area": "9"}; expected 19. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

volume

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 199,200; D012 pp. 83,84
Evidence: evidence/rerun/pink/F-089.json

TR-PINK-F-090 / Pearl cone-top anchor

IF

Invoke F-090 with exactly these inputs: rectangle_height: Real, cone_height: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $z_{P0}=H_R+H_C$; standard= $3H_R$. Current Bangel expression: rectangle_height + cone_height. Require every input to be known. Require rectangle_height > 0.0 and cone_height > 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"rectangle_height": "3", "cone_height": "6"}; expected 9. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

length

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 201,202; D012 pp. 85,86

Evidence: evidence/rerun/pink/F-090.json

TR-PINK-F-091 / Observed gas mass

IF

Invoke F-091 with exactly these inputs: density: Real, gas_volume: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $m_g = \rho_g \cdot V_C(h_g)$. Current Bangel expression: $\text{density} * \text{gas_volume}$. Require every input to be known. Require $\text{density} > 0.0$ and $\text{gas_volume} \geq 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"density": "2", "gas_volume": "3"}; expected 6. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

mass

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 203,204; D012 pp. 87,88
Evidence: evidence/rerun/pink/F-091.json

TR-PINK-F-092 / Gas mass-flow from height

IF

Invoke F-092 with exactly these inputs: density: Real, area: Real, height_rate: Real, volume: Real, density_rate: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $m_dot = \rho * A(h_g) * h_dot_g + V_C(h_g) * \rho_dot$. Current Bangel expression: $density * area * height_rate + volume * density_rate$. Require every input to be known. Require $density > 0.0$ and $area > 0.0$ and $volume \geq 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"density": "2", "area": "3", "height_rate": "4", "volume": "5", "density_rate": "-1"}; expected 19. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 5 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

mass/time

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 205,206; D012 pp. 89,90

Evidence: evidence/rerun/pink/F-092.json

TR-PINK-F-093 / Observed gas-height predictor

IF

Invoke F-093 with exactly these inputs: height: Real, velocity: Real, acceleration: Real, dt: Real, cone_height: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $h_{\text{hat}} = \text{clip}(h + v \cdot dt + 0.5 \cdot a \cdot dt^2, 0, H_C)$. Current Bangel expression: $\text{math.min}(\text{cone_height}, \text{math.max}(0.0, \text{height} + \text{velocity} \cdot dt + 0.5 \cdot \text{acceleration} \cdot dt \cdot dt))$. Require every input to be known. Require $\text{cone_height} > 0.0$ and $\text{height} \geq 0.0$ and $\text{height} \leq \text{cone_height}$ and $dt \geq 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"height": "4", "velocity": "3", "acceleration": "2", "dt": "2", "cone_height": "10"}; expected 10. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 5 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

length

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 207,208; D012 pp. 91,92
Evidence: evidence/rerun/pink/F-093.json

TR-PINK-F-094 / Gas net-force balance

IF

Invoke F-094 with exactly these inputs: buoyancy: Real, pressure_force: Real, actuation_force: Real, drag: Real, wall: Real, mixing: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $m_{eff} \cdot a_z = F_b + F_p + F_{act} - F_d - F_{wall} - F_{mix}$. Current Bangel expression: buoyancy + pressure_force + actuation_force - drag - wall - mixing. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"buoyancy": "10", "pressure_force": "8", "actuation_force": "4", "drag": "3", "wall": "2", "mixing": "1"}; expected 16. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 6 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

force

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 209,210; D012 pp. 93,94
Evidence: evidence/rerun/pink/F-094.json

TR-PINK-F-095 / Buoyancy force

IF

Invoke F-095 with exactly these inputs: ambient_density: Real, gas_density: Real, gravity: Real, volume: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $F_b = (\rho_{\text{ambient}} - \rho_g) * g * V_g$. Current Bangel expression: $(\text{ambient_density} - \text{gas_density}) * \text{gravity} * \text{volume}$. Require every input to be known. Require $\text{ambient_density} > 0.0$ and $\text{gas_density} > 0.0$ and $\text{gravity} \geq 0.0$ and $\text{volume} \geq 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"ambient_density": "3", "gas_density": "1", "gravity": "10", "volume": "2"}; expected 40. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 4 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

force

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 211,212; D012 pp. 95,96

Evidence: evidence/rerun/pink/F-095.json

TR-PINK-F-096 / Drag force

IF

Invoke F-096 with exactly these inputs: drag_coefficient: Real, density: Real, area: Real, velocity: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $F_d = 0.5 \cdot C_d \cdot \rho_{\text{ambient}} \cdot A_{\text{projected}} \cdot u \cdot \text{abs}(u)$. Current Bangel expression: $0.5 \cdot \text{drag_coefficient} \cdot \text{density} \cdot \text{area} \cdot \text{velocity} \cdot \text{math.abs}(\text{velocity})$. Require every input to be known. Require $\text{drag_coefficient} \geq 0.0$ and $\text{density} > 0.0$ and $\text{area} > 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"drag_coefficient": "2", "density": "1", "area": "3", "velocity": "-2"}; expected -12. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 4 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

force

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 213,214; D012 pp. 97,98
Evidence: evidence/rerun/pink/F-096.json

TR-PINK-F-097 / Flow continuity

IF

Invoke F-097 with exactly these inputs: area: Real, velocity: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $Q=A(z)*u(z)$. Current Bangel expression: $area * velocity$. Require every input to be known. Require $area > 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"area": "3", "velocity": "-2"}; expected -6. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

volume/time

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 215,216; D012 pp. 99,100

Evidence: evidence/rerun/pink/F-097.json

TR-PINK-F-098 / Residual reservoir capacity

IF

Invoke F-098 with exactly these inputs: fraction: Real, rectangle_capacity: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $C_{res,k} = \gamma_k \cdot C_{rect,k}$; $0 \leq \gamma_k < 1$. Current Bangel expression: $\text{fraction} * \text{rectangle_capacity}$. Require every input to be known. Require $\text{fraction} \geq 0.0$ and $\text{fraction} < 1.0$ and $\text{rectangle_capacity} > 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"fraction": "0.5", "rectangle_capacity": "10"}; expected 5. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

typed capacity

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 217,218; D012 pp. 101,102

Evidence: evidence/rerun/pink/F-098.json

TR-PINK-F-099 / Umbrella/EVE/reservoir balance

IF

Invoke F-099 with exactly these inputs: down: Real, eve: Real, reservoir: Real, escape: Real, residual: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $q_{cone}=q_{down}+q_{EVE}+q_{res}+q_{escape}+r$. Current Bangel expression: down + eve + reservoir + escape + residual. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"down": "1", "eve": "2", "reservoir": "3", "escape": "4", "residual": "-1"}; expected 9. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 5 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

typed quantity

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 219,220; D012 pp. 103,104

Evidence: evidence/rerun/pink/F-099.json

TR-PINK-F-100 / Containment modification predicate

IF

Invoke F-100 (Containment modification predicate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly:
Valid(theta)=typed&positive&recomputed&conserved&bounded&evidenced&MK&JO&MJ. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D006 pp. 117,121,221,222; D012 pp. 1,5,105,106

Evidence: evidence/rerun/pending/F-100.json

TR-PINK-F-101 / Rear outlet elevation

IF

Invoke F-101 with exactly these inputs: maximum_height: Real, offset: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $z_{out}=H_P-\delta_z$; $0<\delta_z<H_P$. Current Bangel expression: maximum_height - offset. Require every input to be known. Require maximum_height > 0.0 and offset > 0.0 and offset < maximum_height.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"maximum_height": "10", "offset": "2"}; expected 8. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

length

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 223,224,227,229,230; D013 pp. 1,2,5,7,8

Evidence: evidence/rerun/pink/F-101.json

TR-PINK-F-102 / Pearl simulation exclusion radius

IF

Invoke F-102 with exactly these inputs: top_radius: Real, clearance: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $R_{P,sim}=R_{top}+c_P$; $c_P \geq 0$. Current Bangel expression: top_radius + clearance. Require every input to be known. Require top_radius > 0.0 and clearance >= 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"top_radius": "3", "clearance": "2"}; expected 5. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

length

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 224,231,232; D013 pp. 2,9,10

Evidence: evidence/rerun/pink/F-102.json

TR-PINK-F-103 / Outward-tangential outlet direction

IF

Invoke F-103 (Outward-tangential outlet direction) only with the source-defined inputs, scope, evidence and result dimension (dimensionless vector). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $d_{out} = \cos(\alpha_{out})t + \sin(\alpha_{out})n_{out}$; $0 < \alpha_{out} < \pi/2$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

dimensionless vector

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 224,233,234; D013 pp. 2,11,12

Evidence: evidence/rerun/pending/F-103.json

TR-PINK-F-104 / Outside-circle outlet path

IF

Invoke F-104 (Outside-circle outlet path) only with the source-defined inputs, scope, evidence and result dimension (length^2). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $||\gamma(s)-c_P||^2=R_P^2+2R_P*s*\sin(\alpha_{out})+s^2$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

length^2

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 224,235,236; D013 pp. 2,13,14

Evidence: evidence/rerun/pending/F-104.json

TR-PINK-F-105 / Reservoir volume balance

IF

Invoke F-105 with exactly these inputs: outflow: Real, return_flow: Real, drain: Real, escape: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $dV_L/dt=Q_{out}-Q_{return}-Q_{drain}-Q_{escape}$. Current Bangel expression: outflow - return_flow - drain - escape. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"outflow": "10", "return_flow": "3", "drain": "2", "escape": "1"}; expected 4. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 4 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

volume/time

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 224,237,238; D013 pp. 2,15,16

Evidence: evidence/rerun/pink/F-105.json

TR-PINK-F-106 / Typed reservoir quantity balance

IF

Invoke F-106 with exactly these inputs: outgoing: Real, returning: Real, drain: Real, escape: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $dq_{L,k}/dt = q_{out,k} - q_{return,k} - q_{drain,k} - q_{escape,k}$. Current Bangel expression: outgoing - returning - drain - escape. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"outgoing": "10", "returning": "3", "drain": "2", "escape": "1"}; expected 4. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 4 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

typed quantity/time

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 224,239,240; D013 pp. 2,17,18

Evidence: evidence/rerun/pink/F-106.json

TR-PINK-F-107 / Required buffer volume

IF

Invoke F-107 with exactly these inputs: hold_time: Real, outflow_high: Real, return_low: Real, residual_high: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $V_{L, req} = T_{hold} * \max(0, Q_{out}, H - Q_{return}, L) + V_{residual}, H$. Current Bangel expression: $hold_time * \max(0.0, outflow_high - return_low) + residual_high$. Require every input to be known. Require $hold_time \geq 0.0$ and $outflow_high \geq 0.0$ and $return_low \geq 0.0$ and $residual_high \geq 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"hold_time": "3", "outflow_high": "8", "return_low": "5", "residual_high": "2"}; expected 11. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 4 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

volume

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 224,241,242; D013 pp. 2,19,20
Evidence: evidence/rerun/pink/F-107.json

TR-PINK-F-108 / Outlet area lower bound

IF

Invoke F-108 with exactly these inputs: design_flow: Real, velocity_max: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $A_{out} \geq Q_{design} / u_{out,max}$. Current Bangel expression: design_flow / velocity_max. Require every input to be known. Require design_flow ≥ 0.0 and velocity_max > 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"design_flow": "12", "velocity_max": "3"}; expected 4. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

area

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 224,243,244; D013 pp. 2,21,22

Evidence: evidence/rerun/pink/F-108.json

TR-PINK-F-109 / Circular outlet radius lower bound

IF

Invoke F-109 (Circular outlet radius lower bound) only with the source-defined inputs, scope, evidence and result dimension (length). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $r_{out} \geq \sqrt{A_{out}/\pi}$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

length

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 245,246; D013 pp. 23,24

Evidence: evidence/rerun/pending/F-109.json

TR-PINK-F-110 / Bounded drip impulse

IF

Invoke F-110 with exactly these inputs: drop_mass: Real, drop_speed: Real, impulse_max: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $J_{\text{drop}} = m_{\text{drop}} \cdot v_{\text{drop}} \leq J_{\text{drop,max}}$. Current Bangel expression: $\text{drop_mass} \cdot \text{drop_speed} \leq \text{impulse_max}$. Require every input to be known. Require $\text{drop_mass} \geq 0.0$ and $\text{drop_speed} \geq 0.0$ and $\text{impulse_max} \geq 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"drop_mass": "2", "drop_speed": "3", "impulse_max": "7"}; expected true. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

impulse

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 247,248; D013 pp. 25,26
Evidence: evidence/rerun/pink/F-110.json

TR-PINK-F-111 / Small-wave energy reference

IF

Invoke F-111 with exactly these inputs: density: Real, gravity: Real, wave_amplitude: Real, surface_area: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $E_{\text{wave}} \sim 0.5 \cdot \rho \cdot g \cdot a_{\text{wave}}^2 \cdot A_{\text{surface}}$. Current Bangel expression: $0.5 \cdot \text{density} \cdot \text{gravity} \cdot \text{wave_amplitude} \cdot \text{wave_amplitude} \cdot \text{surface_area}$. Require every input to be known. Require density > 0.0 and gravity > 0.0 and wave_amplitude >= 0.0 and surface_area > 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"density": "2", "gravity": "10", "wave_amplitude": "0.1", "surface_area": "3"}; expected 0.3. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 4 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 249,250; D013 pp. 27,28

Evidence: evidence/rerun/pink/F-111.json

TR-PINK-F-112 / Froude reference

IF

Invoke F-112 with exactly these inputs: speed: Real, gravity: Real, length: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $Fr=U/\sqrt{gL}$. Current Bangel expression: `speed / math.sqrt(gravity * length)`. Require every input to be known. Require `speed >= 0.0` and `gravity > 0.0` and `length > 0.0`.

THEN

Emit the scoped calculation result. Missing inputs produce their specific `PINK_MISSING_*` HOLD; failed profile checks produce `PINK_DOMAIN`. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs `{"speed": "6", "gravity": "4", "length": "9"}`; expected 1. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

dimensionless

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 251,252; D013 pp. 29,30

Evidence: `evidence/rerun/pink/F-112.json`

TR-PINK-F-113 / Circular return-port area

IF

Invoke F-113 (Circular return-port area) only with the source-defined inputs, scope, evidence and result dimension (area). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $A_{in} = \pi \cdot r_{in}^2$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

area

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 253,254; D013 pp. 31,32

Evidence: evidence/rerun/pending/F-113.json

TR-PINK-F-114 / Inward-tangential reentry components

IF

Invoke F-114 (Inward-tangential reentry components) only with the source-defined inputs, scope, evidence and result dimension (velocity). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $u_r = -U \sin(\beta_{in})$; $u_{\theta} = \sigma U \cos(\beta_{in})$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

velocity

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 255,256; D013 pp. 33,34

Evidence: evidence/rerun/pending/F-114.json

TR-PINK-F-115 / Spiral compatibility ratio

IF

Invoke F-115 with exactly these inputs: tangential: Real, radial: Real, epsilon: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $\chi_{\text{spiral}} = |u_{\text{theta}}| / \max(|u_r|, \epsilon)$. Current Bangel expression: $\text{math.abs(tangential)} / \text{math.max}(\text{math.abs(radial)}, \epsilon)$. Require every input to be known. Require $\epsilon > 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"tangential": "-6", "radial": "-2", "epsilon": "0.1"}; expected 3. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

dimensionless

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 257,258; D013 pp. 35,36
Evidence: evidence/rerun/pink/F-115.json

TR-PINK-F-116 / Return continuity

IF

Invoke F-116 with exactly these inputs: area: Real, normal_speed: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $Q_{\text{return}} = A_{\text{in}} \cdot u_{\text{n}}$. Current Bangel expression: $\text{area} * \text{normal_speed}$. Require every input to be known. Require $\text{area} > 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"area": "3", "normal_speed": "2"}; expected 6. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

volume/time

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 259,260; D013 pp. 37,38

Evidence: evidence/rerun/pink/F-116.json

TR-PINK-F-117 / Relative-frame velocity

IF

Invoke F-117 (Relative-frame velocity) only with the source-defined inputs, scope, evidence and result dimension (velocity). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $v_{rel}=v_B-v_A-\Omega_A \times r$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

velocity

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 261,262; D013 pp. 39,40

Evidence: evidence/rerun/pending/F-117.json

TR-PINK-F-118 / Frictional dissipation

IF

Invoke F-118 (Frictional dissipation) only with the source-defined inputs, scope, evidence and result dimension (power). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $P_{\text{diss}} = \max(0, -F_f \cdot v_{\text{rel}})$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

power

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 263,264; D013 pp. 41,42

Evidence: evidence/rerun/pending/F-118.json

TR-PINK-F-119 / Recoverable friction-energy bound

IF

Invoke F-119 (Recoverable friction-energy bound) only with the source-defined inputs, scope, evidence and result dimension (energy). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $E_{rec} \leq \eta_{rec} \cdot \int (P_{diss} dt)$; $0 \leq \eta_{rec} \leq 1$. Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

SOURCE REFERENCES

D006 pp. 265,266; D013 pp. 43,44

Evidence: evidence/rerun/pending/F-119.json

TR-PINK-F-120 / Reservoir transaction gate

IF

Invoke F-120 (Reservoir transaction gate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly:
Admit=AngelPass&M3Lease&MKPass&JOPass&MermaidReconciled&MJPermit. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D006 pp. 267,268; D013 pp. 45,46
Evidence: evidence/rerun/pending/F-120.json

TR-PINK-F-121 / Re-entry swirl ratio

IF

Invoke F-121 with exactly these inputs: tangential: Real, radial: Real, epsilon: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $\chi_i = |u_{\theta}| / \max(|u_r|, \epsilon_u)$. Current Bangel expression: `math.abs(tangential) / math.max(math.abs(radial), epsilon)`. Require every input to be known. Require $\epsilon > 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific `PINK_MISSING_* HOLD`; failed profile checks produce `PINK_DOMAIN`. A false numeric predicate can occur in a `PASS` calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs `{"tangential": "-6", "radial": "-2", "epsilon": "0.1"}`; expected 3. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

dimensionless

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 269,270; D013 pp. 47,48

Evidence: `evidence/rerun/pink/F-121.json`

TR-PINK-F-122 / Re-entry processing cycle

IF

Invoke F-122 with exactly these inputs: exit_cycle: Int. Real values use finite decimal text; null remains unknown.

HOW

Source expression: cycle_reentry=cycle_exit+1. Current Bangel expression: exit_cycle + 1. Require every input to be known. Require exit_cycle >= 0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"exit_cycle": 8}; expected 9. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 1 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

cycle identifier

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 271,272; D013 pp. 49,50

Evidence: evidence/rerun/pink/F-122.json

TR-PINK-F-123 / Perspective transform residual

IF

Invoke F-123 (Perspective transform residual) only with the source-defined inputs, scope, evidence and result dimension (typed vector). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $r_{Pi}=x_{B-T_A_to_B}*x_A$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

typed vector

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 273,274; D013 pp. 51,52

Evidence: evidence/rerun/pending/F-123.json

TR-PINK-F-124 / Physical pressure-flow dissipation

IF

Invoke F-124 (Physical pressure-flow dissipation) only with the source-defined inputs, scope, evidence and result dimension (energy). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $E_{\text{diss}} = \int (\Delta p(t) \cdot Q(t) dt)$. Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

SOURCE REFERENCES

D006 pp. 275,276; D013 pp. 53,54

Evidence: evidence/rerun/pending/F-124.json

TR-PINK-F-125 / Information friction

IF

Invoke F-125 (Information friction) only with the source-defined inputs, scope, evidence and result dimension (byte*time). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $C_info=int(B_residual(t)dt)$. Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

byte*time

REMAINING REQUIREMENT

Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

SOURCE REFERENCES

D006 pp. 277,278; D013 pp. 55,56
Evidence: evidence/rerun/pending/F-125.json

TR-PINK-F-126 / Rotational setpoint damping

IF

Invoke F-126 with exactly these inputs: current: Real, target: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $\omega_{\text{tilde}} = (2/3) \cdot \omega + (1/3) \cdot \omega_{\text{star}}$. Current Bangel expression: $(2.0 \cdot \text{current} + \text{target}) / 3.0$. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"current": "90", "target": "120"}; expected 100. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

angular velocity

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 279,280; D013 pp. 57,58
Evidence: evidence/rerun/pink/F-126.json

TR-PINK-F-127 / Rotational step cap

IF

Invoke F-127 with exactly these inputs: next_speed: Real, current_speed: Real, speed_scale: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $|\text{omega_next} - \text{omega}| \leq 0.1 * \text{omega_scale}$. Current Bangel expression: $\text{math.abs}(\text{next_speed} - \text{current_speed}) \leq 0.1 * \text{speed_scale}$. Require every input to be known. Require $\text{speed_scale} > 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"next_speed": "105", "current_speed": "100", "speed_scale": "50"}; expected true. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

angular velocity

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 281,282; D013 pp. 59,60
Evidence: evidence/rerun/pink/F-127.json

TR-PINK-F-128 / Outlet transfer conservation

IF

Invoke F-128 with exactly these inputs: lake_in: Real, eve: Real, escape: Real, residual: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $q_{\text{exit}}=q_{\text{lake_in}}+q_{\text{EVE}}+q_{\text{escape}}+r_o$. Current Bangel expression: lake_in + eve + escape + residual. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"lake_in": "3", "eve": "2", "escape": "1", "residual": "-1"}; expected 5. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 4 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

typed quantity

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 283,284; D013 pp. 61,62
Evidence: evidence/rerun/pink/F-128.json

TR-PINK-F-129 / Re-entry recalculation vector

IF

Invoke F-129 (Re-entry recalculation vector) only with the source-defined inputs, scope, evidence and result dimension (typed vector). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $\Delta_x=[\Delta_m,\Delta_W,\Delta_V,\Delta_{\rho},\Delta_T,\Delta_p,\Delta_h]$. Bind this formula ID to its typed value or invariant and source-specific tests. Existing language primitives are useful but do not constitute a complete formula contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

typed vector

REMAINING REQUIREMENT

Bind this formula ID to its typed value or invariant and source-specific tests. Existing language primitives are useful but do not constitute a complete formula contract.

SOURCE REFERENCES

D006 pp. 285,286; D013 pp. 63,64
Evidence: evidence/rerun/pending/F-129.json

TR-PINK-F-130 / Re-entry admissibility predicate

IF

Invoke F-130 (Re-entry admissibility predicate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly:
Admit_re=types&units&new_cycle&capacity&wave&MK&JO&Angels&M3&MJ. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D006 pp. 287,288; D013 pp. 65,66
Evidence: evidence/rerun/pending/F-130.json

TR-PINK-F-131 / Uncertainty-aware Pearl reference clearance

IF

Invoke F-131 (Uncertainty-aware Pearl reference clearance) only with the source-defined inputs, scope, evidence and result dimension (length). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $\min_s(|\gamma_{out}(s)-c_P|-R_P, sim) \geq c_{min}+U_{path}$. Implement the bounded graph/path/selection algorithm with its complete input set, eligibility rules, tie/failure behavior and relevant evidence.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

length

REMAINING REQUIREMENT

Implement the bounded graph/path/selection algorithm with its complete input set, eligibility rules, tie/failure behavior and relevant evidence.

SOURCE REFERENCES

D006 pp. 289,290; D013 pp. 67,68

Evidence: evidence/rerun/pending/F-131.json

TR-PINK-F-132 / Outward angular-gap predicate

IF

Invoke F-132 (Outward angular-gap predicate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $\text{abs}(\text{wrap}(\alpha_{\text{out}} - \alpha_{\text{gap}})) \leq \Delta_{\alpha_{\text{gap}}} / 2$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 291,292; D013 pp. 69,70

Evidence: evidence/rerun/pending/F-132.json

TR-PINK-F-133 / Available outlet pressure

IF

Invoke F-133 with exactly these inputs: containment_pressure: Real, lake_pressure: Real, density: Real, gravity: Real, outlet_height: Real, lake_height: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $\Delta p_{\text{available}} = p_{\text{containment}} - p_{\text{lake}} + \rho * g * (z_{\text{out}} - z_{\text{lake}})$. Current Bangel expression: `containment_pressure - lake_pressure + density * gravity * (outlet_height - lake_height)`. Require every input to be known. Require density > 0.0 and gravity > 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"containment_pressure": "20", "lake_pressure": "10", "density": "2", "gravity": "10", "outlet_height": "3", "lake_height": "1"}; expected 50. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 6 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

pressure

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 293,294; D013 pp. 71,72

Evidence: evidence/rerun/pink/F-133.json

TR-PINK-F-134 / Outlet pressure margin

IF

Invoke F-134 with exactly these inputs: available: Real, loss: Real, uncertainty: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $\Delta p_{\text{margin}} = \Delta p_{\text{available}} - \Delta p_{\text{loss}} - U_{\Delta p}$. Current Bangel expression: available - loss - uncertainty. Require every input to be known. Require loss ≥ 0.0 and uncertainty ≥ 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"available": "50", "loss": "10", "uncertainty": "3"}; expected 37. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

pressure

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 295,296; D013 pp. 73,74
Evidence: evidence/rerun/pink/F-134.json

TR-PINK-F-135 / Minimum outlet grade

IF

Invoke F-135 (Minimum outlet grade) only with the source-defined inputs, scope, evidence and result dimension (angle). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly:
 $\alpha_{\min} = \text{atan}(\max(0, \Delta p_{\text{loss}} + U_{\Delta p} (p_{\text{containment}} - p_{\text{lake}})) / (\rho \cdot g \cdot L_{\text{path}}))$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

angle

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 297,298; D013 pp. 75,76

Evidence: evidence/rerun/pending/F-135.json

TR-PINK-F-136 / Selected positive outlet grade

IF

Invoke F-136 with exactly these inputs: minimum_angle: Real, angle_increment: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $\alpha_{\text{selected}} = \alpha_{\text{min}} + \Delta \alpha$; $\Delta \alpha > 0$. Current Bangel expression: minimum_angle + angle_increment. Require every input to be known. Require minimum_angle ≥ 0.0 and angle_increment > 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"minimum_angle": "0.1", "angle_increment": "0.02"}; expected 0.12. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

angle

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 299,300; D013 pp. 77,78
Evidence: evidence/rerun/pink/F-136.json

TR-PINK-F-137 / Incompressible reference outlet flow

IF

Invoke F-137 with exactly these inputs: discharge_coefficient: Real, area: Real, available_pressure: Real, loss_pressure: Real, density: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $Q_{ref} = C_d \cdot A_{out} \cdot \sqrt{2 \cdot \max(0, \Delta p_{available} - \Delta p_{loss}) / \rho}$. Current Bangel expression: `discharge_coefficient * area * math.sqrt(2.0 * math.max(0.0, available_pressure - loss_pressure) / density)`. Require every input to be known. Require discharge_coefficient >= 0.0 and area > 0.0 and loss_pressure >= 0.0 and density > 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"discharge_coefficient": "0.5", "area": "2", "available_pressure": "20", "loss_pressure": "4", "density": "2"}; expected 4. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 5 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

volume/time

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 301,302; D013 pp. 79,80

Evidence: evidence/rerun/pink/F-137.json

TR-PINK-F-138 / Mean outlet velocity

IF

Invoke F-138 with exactly these inputs: flow: Real, area: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $U_{out}=Q_{ref}/A_{out}$. Current Bangel expression: flow / area. Require every input to be known. Require area > 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"flow": "12", "area": "3"}; expected 4. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

length/time

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 303,304; D013 pp. 81,82
Evidence: evidence/rerun/pink/F-138.json

TR-PINK-F-139 / Weber number reference

IF

Invoke F-139 with exactly these inputs: density: Real, speed: Real, length: Real, surface_tension: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $We = \rho * U^2 * L / \sigma$. Current Bangel expression: density * speed * speed * length / surface_tension. Require every input to be known. Require density > 0.0 and length > 0.0 and surface_tension > 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"density": "2", "speed": "3", "length": "4", "surface_tension": "6"}; expected 12. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 4 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

dimensionless

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 305,306; D013 pp. 83,84
Evidence: evidence/rerun/pink/F-139.json

TR-PINK-F-140 / Wave amplitude ratio

IF

Invoke F-140 with exactly these inputs: wave_amplitude: Real, lake_depth: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $\epsilon_a = a_{\text{wave}} / h_L$. Current Bangel expression: wave_amplitude / lake_depth. Require every input to be known. Require wave_amplitude ≥ 0.0 and lake_depth > 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"wave_amplitude": "0.1", "lake_depth": "2"}; expected 0.05. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

dimensionless

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 307,308; D013 pp. 85,86
Evidence: evidence/rerun/pink/F-140.json

TR-PINK-F-141 / Small-wave observation gate

IF

Invoke F-141 (Small-wave observation gate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly:
WaveGate=(Fr<=Fr_max)&(epsilon_a<=epsilon_a,max)&(We<=We_max when applicable). Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D006 pp. 309,310; D013 pp. 87,88
Evidence: evidence/rerun/pending/F-141.json

TR-PINK-F-142 / Discrete reservoir inventory

IF

Invoke F-142 with exactly these inputs: inventory: Real, outgoing: Real, returning: Real, drain: Real, escape: Real, residual: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $q_{L,t+1}=q_{L,t}+q_{out}-q_{return}-q_{drain}-q_{escape}-r_L$. Current Bangel expression: inventory + outgoing - returning - drain - escape - residual. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"inventory": "20", "outgoing": "10", "returning": "4", "drain": "2", "escape": "1", "residual": "3"}; expected 20. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 6 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

typed quantity

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 311,312; D013 pp. 89,90
Evidence: evidence/rerun/pink/F-142.json

TR-PINK-F-143 / Vector reservoir headroom

IF

Invoke F-143 with exactly these inputs: capacity: Real, inventory: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $H_{L,k} = C_{L,k} - q_{L,k}$. Current Bangel expression: capacity - inventory. Require every input to be known. Require capacity ≥ 0.0 and inventory ≥ 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"capacity": "10", "inventory": "12"}; expected -2. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

typed capacity

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D006 pp. 313,314; D013 pp. 91,92
Evidence: evidence/rerun/pink/F-143.json

TR-PINK-F-144 / Vector reservoir admission

IF

Invoke F-144 (Vector reservoir admission) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $\text{Admit_L} = \text{AND_k}[q_L, k + q_in, k \leq (1 - h_L, k)C_L, k]$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D006 pp. 315,316; D013 pp. 93,94

Evidence: evidence/rerun/pending/F-144.json

TR-PINK-F-145 / No same-cycle feedback predicate

IF

Invoke F-145 (No same-cycle feedback predicate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly:
ReentryValid=(cycle_reentry=cycle_exit+1)&no_uncleared_generation_reuse. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D006 pp. 223,227,317,318; D013 pp. 1,5,95,96

Evidence: evidence/rerun/pending/F-145.json

TR-PINK-F-146 / Solar/auxiliary/recovery input energy

IF

Invoke F-146 with exactly these inputs: solar: Real, auxiliary: Real, recovered: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $E_{in} = E_{solar} + E_{aux} + E_{recovered}$. Current Bangel expression: solar + auxiliary + recovered. Require every input to be known. Require solar ≥ 0.0 and auxiliary ≥ 0.0 and recovered ≥ 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"solar": "10", "auxiliary": "3", "recovered": "2"}; expected 15. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D017 pp. 3,11

Evidence: evidence/rerun/pink/F-146.json

TR-PINK-F-147 / Solar system energy conservation

IF

Invoke F-147 with exactly these inputs: storage_delta: Real, load: Real, loss: Real, residual: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $E_{in} = \Delta E_{storage} + E_{load} + E_{loss} + r_E$. Current Bangel expression: storage_delta + load + loss + residual. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"storage_delta": "-2", "load": "10", "loss": "1", "residual": "1"}; expected 10. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 4 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D017 pp. 3,11

Evidence: evidence/rerun/pink/F-147.json

TR-PINK-F-148 / Instantaneous power balance

IF

Invoke F-148 with exactly these inputs: source: Real, load: Real, charge: Real, loss: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $P_{balance} = P_{source} - P_{load} - P_{charge} - P_{loss}$. Current Bangel expression: source - load - charge - loss. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"source": "20", "load": "10", "charge": "4", "loss": "2"}; expected 4. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 4 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

power

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D017 pp. 3,11

Evidence: evidence/rerun/pink/F-148.json

TR-PINK-F-149 / Conservative reserve margin

IF

Invoke F-149 with exactly these inputs: available_low: Real, margin_factor: Real, required_high: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $R_E = E_{\text{available},L} - M_E * E_{\text{required},H}$. Current Bangel expression: available_low - margin_factor * required_high. Require every input to be known. Require available_low >= 0.0 and margin_factor >= 1.0 and required_high >= 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"available_low": "30", "margin_factor": "2", "required_high": "10"}; expected 10. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D017 pp. 3,11

Evidence: evidence/rerun/pink/F-149.json

TR-PINK-F-150 / Path efficiency

IF

Invoke F-150 with exactly these inputs: delivered: Real, input_energy: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $\eta_{\text{path}} = E_{\text{delivered}} / E_{\text{input}}$. Current Bangel expression: `delivered / input_energy`. Require every input to be known. Require `delivered >= 0.0` and `input_energy > 0.0`.

THEN

Emit the scoped calculation result. Missing inputs produce their specific `PINK_MISSING_* HOLD`; failed profile checks produce `PINK_DOMAIN`. A false numeric predicate can occur in a `PASS` calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs `{"delivered": "8", "input_energy": "10"}`; expected 0.8. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

ratio

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D017 pp. 4,11

Evidence: `evidence/rerun/pink/F-150.json`

TR-PINK-F-151 / Bounded storage state update

IF

Invoke F-151 with exactly these inputs: soc: Real, charge_efficiency: Real, charge_energy: Real, discharge_energy: Real, discharge_efficiency: Real, capacity: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $SOC_{next} = clip(SOC + (\eta_c * E_{charge} - E_{discharge} / \eta_d) / E_{capacity}, 0, 1)$. Current Bangel expression: $math.min(1.0, math.max(0.0, soc + (charge_efficiency * charge_energy - discharge_energy / discharge_efficiency) / capacity))$. Require every input to be known. Require $soc \geq 0.0$ and $soc \leq 1.0$ and $charge_efficiency > 0.0$ and $charge_efficiency \leq 1.0$ and $discharge_efficiency > 0.0$ and $discharge_efficiency \leq 1.0$ and $charge_energy \geq 0.0$ and $discharge_energy \geq 0.0$ and $capacity > 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"soc": "0.5", "charge_efficiency": "0.8", "charge_energy": "10", "discharge_energy": "2", "discharge_efficiency": "0.5", "capacity": "20"}; expected 0.7. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 6 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

ratio

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D017 pp. 4,11

Evidence: evidence/rerun/pink/F-151.json

TR-PINK-F-152 / Thermal first-order update

IF

Invoke F-152 with exactly these inputs: temperature: Real, dt: Real, thermal_capacity: Real, heat_power: Real, ambient: Real, thermal_resistance: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $T_{next} = T + dt/C_{th} * (P_{heat} - (T-T_{env})/R_{th})$. Current Bangel expression: temperature + dt / thermal_capacity * (heat_power - (temperature - ambient) / thermal_resistance). Require every input to be known. Require temperature > 0.0 and ambient > 0.0 and dt >= 0.0 and thermal_capacity > 0.0 and thermal_resistance > 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"temperature": "300", "dt": "2", "thermal_capacity": "4", "heat_power": "10", "ambient": "280", "thermal_resistance": "4"}; expected 302.5. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 6 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

temperature

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D017 pp. 4,11

Evidence: evidence/rerun/pink/F-152.json

TR-PINK-F-153 / Predicted bus voltage

IF

Invoke F-153 with exactly these inputs: voltage: Real, horizon: Real, voltage_rate: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $V_{pred}(t+h) = V_t + h \cdot dV_{dt}$. Current Bangel expression: voltage + horizon * voltage_rate. Require every input to be known. Require horizon >= 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"voltage": "12", "horizon": "2", "voltage_rate": "-1"}; expected 10. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

voltage

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D017 pp. 4,11

Evidence: evidence/rerun/pink/F-153.json

TR-PINK-F-154 / Shared start/admission gate

IF

Invoke F-154 (Shared start/admission gate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: G_start = energy AND voltage AND current AND thermal AND containment AND ethics AND MJ_permit. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D017 pp. 5,11

Evidence: evidence/rerun/pending/F-154.json

TR-PINK-F-155 / Cross-profile transfer gate

IF

Invoke F-155 (Cross-profile transfer gate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $\text{TransferOK} = K \text{ AND } U \text{ AND } D \text{ AND } R \text{ AND } E \text{ AND } M \text{ AND } B \text{ AND } Q \text{ AND } V \text{ AND } A$. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D017 pp. 5,11

Evidence: evidence/rerun/pending/F-155.json

TR-PINK-F-156 / Solar uncertainty propagation

IF

Invoke F-156 (Solar uncertainty propagation) only with the source-defined inputs, scope, evidence and result dimension (uncertainty). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $u_y^2 = J \cdot \text{Sigma} \cdot J_T + u_{\text{model}}^2$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

uncertainty

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D017 pp. 5,12

Evidence: evidence/rerun/pending/F-156.json

TR-PINK-F-157 / Solar evidence-state transition

IF

Invoke F-157 (Solar evidence-state transition) only with the source-defined inputs, scope, evidence and result dimension (state). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: R1 --all required evidence and gates--> R2. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

state

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D017 pp. 5,12

Evidence: evidence/rerun/pending/F-157.json

TR-PINK-F-158 / Phone-profile solar energy

IF

Invoke F-158 (Phone-profile solar energy) only with the source-defined inputs, scope, evidence and result dimension (energy). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $E_{solar_phone} = \text{integral}(P_{pv_phone}(t), t_0, t_1)$. Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

SOURCE REFERENCES

D020 pp. 3,11

Evidence: evidence/rerun/pending/F-158.json

TR-PINK-F-159 / Workload-aware power demand

IF

Invoke F-159 (Workload-aware power demand) only with the source-defined inputs, scope, evidence and result dimension (power). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $P_{\text{phone}} = P_{\text{base}} + \sum(P_{\text{task}_i} * a_i)$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

power

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D020 pp. 3,11

Evidence: evidence/rerun/pending/F-159.json

TR-PINK-F-160 / Phone reserve duration

IF

Invoke F-160 with exactly these inputs: reserve_low: Real, critical_power_high: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $t_{reserve} = E_{reserve,L} / P_{critical,H}$. Current Bangel expression: reserve_low / critical_power_high. Require every input to be known. Require reserve_low >= 0.0 and critical_power_high > 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"reserve_low": "30", "critical_power_high": "5"}; expected 6. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

time

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D020 pp. 3,11

Evidence: evidence/rerun/pink/F-160.json

TR-PINK-F-161 / Phone energy deficit

IF

Invoke F-161 with exactly these inputs: required_high: Real, available_low: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $D_E = \max(0, E_{\text{required}}, H - E_{\text{available}}, L)$. Current Bangel expression: `math.max(0.0, required_high - available_low)`. Require every input to be known. Require `required_high >= 0.0` and `available_low >= 0.0`.

THEN

Emit the scoped calculation result. Missing inputs produce their specific `PINK_MISSING_*` HOLD; failed profile checks produce `PINK_DOMAIN`. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs `{"required_high": "10", "available_low": "12"}`; expected 0. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D020 pp. 3,11

Evidence: `evidence/rerun/pink/F-161.json`

TR-PINK-F-162 / Environment-dependent leakage

IF

Invoke F-162 (Environment-dependent leakage) only with the source-defined inputs, scope, evidence and result dimension (current). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $I_{leak} = f(V,T,RH,time,material_state)$. The expression names a model or transition function. Recover its normative definition, inputs, state and failure behavior before implementing it.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

current

REMAINING REQUIREMENT

The expression names a model or transition function. Recover its normative definition, inputs, state and failure behavior before implementing it.

SOURCE REFERENCES

D020 pp. 4,11

Evidence: evidence/rerun/pending/F-162.json

TR-PINK-F-163 / Wake energy accounting

IF

Invoke F-163 (Wake energy accounting) only with the source-defined inputs, scope, evidence and result dimension (energy). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $E_wake = \text{integral}(V_wake(t)*I_wake(t),t0,t1)$. Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

SOURCE REFERENCES

D020 pp. 4,11

Evidence: evidence/rerun/pending/F-163.json

TR-PINK-F-164 / Phone thermal margin

IF

Invoke F-164 with exactly these inputs: allowable_temperature: Real, observed_temperature: Real, temperature_uncertainty: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $M_T = T_{\text{allowable}} - (T_{\text{observed}} + U_T)$. Current Bangel expression: allowable_temperature - (observed_temperature + temperature_uncertainty). Require every input to be known. Require allowable_temperature > 0.0 and observed_temperature > 0.0 and temperature_uncertainty >= 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"allowable_temperature": "320", "observed_temperature": "300", "temperature_uncertainty": "3"}; expected 17. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

temperature

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D020 pp. 4,11

Evidence: evidence/rerun/pink/F-164.json

TR-PINK-F-165 / Useful work per delivered energy

IF

Invoke F-165 with exactly these inputs: verified_work: Real, delivered_energy: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $\eta_{work} = W_{verified} / E_{delivered}$. Current Bangel expression: $verified_work / delivered_energy$. Require every input to be known. Require $verified_work \geq 0.0$ and $delivered_energy > 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"verified_work": "12", "delivered_energy": "3"}; expected 4. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

work_per_energy

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D020 pp. 4,11

Evidence: evidence/rerun/pink/F-165.json

TR-PINK-F-166 / Data-performance correlation

IF

Invoke F-166 with exactly these inputs: covariance: Real, sigma_data: Real, sigma_performance: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $\rho_{DP} = \text{cov}(D,P)/(\sigma_D \sigma_P)$. Current Bangel expression: covariance / (sigma_data * sigma_performance). Require every input to be known. Require sigma_data > 0.0 and sigma_performance > 0.0 and $\text{math.abs}(\text{covariance}) \leq \sigma_{\text{data}} * \sigma_{\text{performance}}$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"covariance": "6", "sigma_data": "2", "sigma_performance": "3"}; expected 1. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

ratio

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D020 pp. 5,11

Evidence: evidence/rerun/pink/F-166.json

TR-PINK-F-167 / Workload allocation update

IF

Invoke F-167 (Workload allocation update) only with the source-defined inputs, scope, evidence and result dimension (ratio_vector). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $w_{next} = bounded_simplex((2/3)w + (1/3)w_{target}, step \leq 0.1)$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

ratio_vector

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D020 pp. 5,11

Evidence: evidence/rerun/pending/F-167.json

TR-PINK-F-168 / Semiconductor scale map

IF

Invoke F-168 (Semiconductor scale map) only with the source-defined inputs, scope, evidence and result dimension (length_vector). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $p_{SC}(x,y,z) = o_{SC} + x*a_{SC} + y*b_{SC} + z*c_{SC}$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

length_vector

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D020 pp. 5,12

Evidence: evidence/rerun/pending/F-168.json

TR-PINK-F-169 / Phone-profile evidence completeness

IF

Invoke F-169 (Phone-profile evidence completeness) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: E_SC = min_required(article,calibration,baseline,energy,thermal,geometry,JO,MK,MJ). Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D020 pp. 5,12

Evidence: evidence/rerun/pending/F-169.json

TR-PINK-F-170 / Marine solar-array energy

IF

Invoke F-170 (Marine solar-array energy) only with the source-defined inputs, scope, evidence and result dimension (energy). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $E_{array} = \text{integral}(P_{array}(t), t_0, t_1)$. Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

SOURCE REFERENCES

D018 pp. 3,11

Evidence: evidence/rerun/pending/F-170.json

TR-PINK-F-171 / Marine propulsion/load power

IF

Invoke F-171 with exactly these inputs: torque: Real, angular_speed: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $P_{prop} = \tau * \omega$. Current Bangel expression: torque * angular_speed. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"torque": "3", "angular_speed": "4"}; expected 12. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

power

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D018 pp. 3,11

Evidence: evidence/rerun/pink/F-171.json

TR-PINK-F-172 / Marine mission energy

IF

Invoke F-172 (Marine mission energy) only with the source-defined inputs, scope, evidence and result dimension (energy). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $E_{mission} = \text{integral}(P_{prop} + P_{critical} + P_{aux}, t_0, t_1)$. Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

SOURCE REFERENCES

D018 pp. 3,11

Evidence: evidence/rerun/pending/F-172.json

TR-PINK-F-173 / Marine critical reserve duration

IF

Invoke F-173 with exactly these inputs: reserve_low: Real, critical_power_high: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $t_{critical} = E_{reserve,L} / P_{critical,H}$. Current Bangel expression: reserve_low / critical_power_high. Require every input to be known. Require reserve_low >= 0.0 and critical_power_high > 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"reserve_low": "30", "critical_power_high": "5"}; expected 6. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

time

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D018 pp. 4,11

Evidence: evidence/rerun/pink/F-173.json

TR-PINK-F-174 / Marine DC bus balance

IF

Invoke F-174 with exactly these inputs: propulsion: Real, critical: Real, auxiliary: Real, charge: Real, loss: Real, residual: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $P_{sources} = P_{prop} + P_{critical} + P_{aux} + P_{charge} + P_{loss} + r_P$. Current Bangel expression: propulsion + critical + auxiliary + charge + loss + residual. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"propulsion": "10", "critical": "4", "auxiliary": "3", "charge": "2", "loss": "1", "residual": "-1"}; expected 19. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 6 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

power

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D018 pp. 4,11

Evidence: evidence/rerun/pink/F-174.json

TR-PINK-F-175 / Precharge inrush reference

IF

Invoke F-175 with exactly these inputs: source_voltage: Real, bus_voltage: Real, precharge_resistance: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $I_{pre}(t) = (V_{source} - V_{bus}(t))/R_{pre}$. Current Bangel expression: $(source_voltage - bus_voltage) / precharge_resistance$. Require every input to be known. Require precharge_resistance > 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"source_voltage": "20", "bus_voltage": "12", "precharge_resistance": "4"}; expected 2. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

current

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D018 pp. 4,11

Evidence: evidence/rerun/pink/F-175.json

TR-PINK-F-176 / Wet/dry leakage ratio

IF

Invoke F-176 with exactly these inputs: wet_leakage: Real, dry_leakage: Real, epsilon: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $K_{leak} = I_{leak,wet} / \max(I_{leak,dry}, \epsilon)$. Current Bangel expression: $wet_leakage / \max(dry_leakage, \epsilon)$. Require every input to be known. Require $wet_leakage \geq 0.0$ and $dry_leakage \geq 0.0$ and $\epsilon > 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"wet_leakage": "6", "dry_leakage": "0", "epsilon": "2"}; expected 3. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

ratio

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D018 pp. 4,11

Evidence: evidence/rerun/pink/F-176.json

TR-PINK-F-177 / Marine environment state vector

IF

Invoke F-177 (Marine environment state vector) only with the source-defined inputs, scope, evidence and result dimension (typed_vector). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $X_{env} = [T,RH,salt,water,vibration,roll,pitch]$. Bind this formula ID to its typed value or invariant and source-specific tests. Existing language primitives are useful but do not constitute a complete formula contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

typed_vector

REMAINING REQUIREMENT

Bind this formula ID to its typed value or invariant and source-specific tests. Existing language primitives are useful but do not constitute a complete formula contract.

SOURCE REFERENCES

D018 pp. 4,11

Evidence: evidence/rerun/pending/F-177.json

TR-PINK-F-178 / Vibration exposure

IF

Invoke F-178 (Vibration exposure) only with the source-defined inputs, scope, evidence and result dimension (acceleration_squared_time). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $D_{vib} = \text{integral}(a_{rms}(t)^2, t_0, t_1)$. Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

acceleration_squared_time

REMAINING REQUIREMENT

Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

SOURCE REFERENCES

D018 pp. 5,11

Evidence: evidence/rerun/pending/F-178.json

TR-PINK-F-179 / Recovered energy ceiling

IF

Invoke F-179 with exactly these inputs: recovered: Real, recovery_efficiency: Real, available_loss: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $E_{\text{recovered}} \leq \eta_{\text{recovery}} * E_{\text{available_loss}}$. Current Bangel expression: $\text{recovered} \leq \text{recovery_efficiency} * \text{available_loss}$. Require every input to be known. Require recovered ≥ 0.0 and recovery_efficiency ≥ 0.0 and recovery_efficiency ≤ 1.0 and available_loss ≥ 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"recovered": "4", "recovery_efficiency": "0.5", "available_loss": "10"}; expected true. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D018 pp. 5,12

Evidence: evidence/rerun/pink/F-179.json

TR-PINK-F-180 / Priority load shedding

IF

Invoke F-180 (Priority load shedding) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $\text{shed} = \text{lowest_priority_loads_until}(\text{P_source}, L \geq \text{P_critical}, H + \text{margin})$. Implement the bounded graph/path/selection algorithm with its complete input set, eligibility rules, tie/failure behavior and relevant evidence.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Implement the bounded graph/path/selection algorithm with its complete input set, eligibility rules, tie/failure behavior and relevant evidence.

SOURCE REFERENCES

D018 pp. 5,12

Evidence: evidence/rerun/pending/F-180.json

TR-PINK-F-181 / Marine evidence and permit gate

IF

Invoke F-181 (Marine evidence and permit gate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: G_marine = class AND environment AND energy AND structure AND containment AND ethics AND MJ_permit. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D018 pp. 5,12

Evidence: evidence/rerun/pending/F-181.json

TR-PINK-F-182 / Peaceful spacecraft solar energy

IF

Invoke F-182 (Peaceful spacecraft solar energy) only with the source-defined inputs, scope, evidence and result dimension (energy). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $E_{space_solar} = \text{integral}(P_{solar_space}(t), t_0, t_1)$. Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

SOURCE REFERENCES

D019 pp. 3,11

Evidence: evidence/rerun/pending/F-182.json

TR-PINK-F-183 / Avionics bus balance

IF

Invoke F-183 with exactly these inputs: avionics: Real, thermal: Real, communications: Real, charge: Real, loss: Real, residual: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $P_{av_source} = P_{avionics} + P_{thermal} + P_{comms} + P_{charge} + P_{loss} + r_P$. Current Bangel expression: $avionics + thermal + communications + charge + loss + residual$. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"avionics": "10", "thermal": "4", "communications": "3", "charge": "2", "loss": "1", "residual": "-1"}; expected 19. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 6 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

power

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D019 pp. 3,11

Evidence: evidence/rerun/pink/F-183.json

TR-PINK-F-184 / Emergency reserve duration

IF

Invoke F-184 with exactly these inputs: emergency_reserve_low: Real, emergency_power_high: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $t_{\text{emergency}} = E_{\text{emergency,L}} / P_{\text{emergency,H}}$. Current Bangel expression: emergency_reserve_low / emergency_power_high. Require every input to be known. Require emergency_reserve_low >= 0.0 and emergency_power_high > 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"emergency_reserve_low": "30", "emergency_power_high": "5"}; expected 6. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

time

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D019 pp. 3,11

Evidence: evidence/rerun/pink/F-184.json

TR-PINK-F-185 / Spacecraft thermal balance

IF

Invoke F-185 with exactly these inputs: internal_power: Real, absorbed_solar: Real, rejected_power: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $C_{th} \cdot dT/dt = P_{internal} + P_{solar_absorbed} - P_{rejected}$. Current Bangel expression: internal_power + absorbed_solar - rejected_power. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"internal_power": "10", "absorbed_solar": "4", "rejected_power": "7"}; expected 7. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

power

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D019 pp. 3,11

Evidence: evidence/rerun/pink/F-185.json

TR-PINK-F-186 / Space-profile battery margin

IF

Invoke F-186 with exactly these inputs: battery_low: Real, required_high: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $M_{batt} = E_{battery,L} - E_{required,H}$. Current Bangel expression: battery_low - required_high. Require every input to be known. Require battery_low ≥ 0.0 and required_high ≥ 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"battery_low": "30", "required_high": "20"}; expected 10. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D019 pp. 4,11

Evidence: evidence/rerun/pink/F-186.json

TR-PINK-F-187 / Authenticated startup state

IF

Invoke F-187 (Authenticated startup state) only with the source-defined inputs, scope, evidence and result dimension (state). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $S_{next} = transition(S_{current}, command, authority, evidence, ethics)$. The expression names a model or transition function. Recover its normative definition, inputs, state and failure behavior before implementing it.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

state

REMAINING REQUIREMENT

The expression names a model or transition function. Recover its normative definition, inputs, state and failure behavior before implementing it.

SOURCE REFERENCES

D019 pp. 4,11

Evidence: evidence/rerun/pending/F-187.json

TR-PINK-F-188 / Fault isolation set

IF

Invoke F-188 (Fault isolation set) only with the source-defined inputs, scope, evidence and result dimension (set). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $F_isolated = isolate(F_detected, affected_boundaries, receipts)$. The expression names a model or transition function. Recover its normative definition, inputs, state and failure behavior before implementing it.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

set

REMAINING REQUIREMENT

The expression names a model or transition function. Recover its normative definition, inputs, state and failure behavior before implementing it.

SOURCE REFERENCES

D019 pp. 4,11

Evidence: evidence/rerun/pending/F-188.json

TR-PINK-F-189 / Redundant service availability

IF

Invoke F-189 (Redundant service availability) only with the source-defined inputs, scope, evidence and result dimension (ratio). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $A_{\text{service}} = 1 - \text{product}(1 - A_i)$ for independent admitted channels. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

ratio

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D019 pp. 4,11

Evidence: evidence/rerun/pending/F-189.json

TR-PINK-F-190 / Propulsion-state coordination reference

IF

Invoke F-190 (Propulsion-state coordination reference) only with the source-defined inputs, scope, evidence and result dimension (state). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $S_{prop_next} = governed_state_update(S_{prop}, telemetry, limits, authority)$. The expression names a model or transition function. Recover its normative definition, inputs, state and failure behavior before implementing it.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

state

REMAINING REQUIREMENT

The expression names a model or transition function. Recover its normative definition, inputs, state and failure behavior before implementing it.

SOURCE REFERENCES

D019 pp. 5,11

Evidence: evidence/rerun/pending/F-190.json

TR-PINK-F-191 / High-energy emergency reserve

IF

Invoke F-191 with exactly these inputs: shutdown_available_low: Real, shutdown_required_high: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $R_{HE} = E_{safe_shutdown,L} - E_{shutdown_required,H}$. Current Bangel expression: shutdown_available_low - shutdown_required_high. Require every input to be known. Require shutdown_available_low ≥ 0.0 and shutdown_required_high ≥ 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"shutdown_available_low": "30", "shutdown_required_high": "20"}; expected 10. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D019 pp. 5,11

Evidence: evidence/rerun/pink/F-191.json

TR-PINK-F-192 / Non-weaponization gate

IF

Invoke F-192 (Non-weaponization gate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: G_ethics = peaceful_research AND no_targeting AND no_destructive_payload AND no_evasion_for_harm. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D019 pp. 5,12

Evidence: evidence/rerun/pending/F-192.json

TR-PINK-F-193 / Rocket-profile evidence and permit gate

IF

Invoke F-193 (Rocket-profile evidence and permit gate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $G_{rocket} = peaceful_scope \text{ AND } profile_evidence \text{ AND } safety \text{ AND } regulatory_hold_resolved \text{ AND } MJ_permit$. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D019 pp. 5,12

Evidence: evidence/rerun/pending/F-193.json

TR-PINK-F-194 / DRO founder lower marker

IF

Invoke F-194 with exactly these inputs: . Real values use finite decimal text; null remains unknown.

HOW

Source expression: $d_A = 5e-22$ m. Current Bangel expression: 0.0000000000000000000005. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {}; expected 0.000000000000000000000005. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 0 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

length

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D004 pp. 2,6

Evidence: evidence/rerun/pink/F-194.json

TR-PINK-F-195 / DRO alias conversion

IF

Invoke F-195 with exactly these inputs: . Real values use finite decimal text; null remains unknown.

HOW

Source expression: $d_B = 3e-12 \text{ nm} * 1e-9 \text{ m/nm} = 3e-21 \text{ m}$. Current Bangel expression: $0.000000000003 * 0.0000000001$. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {}; expected 0.00000000000000000003. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 0 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

length

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D004 pp. 2,6

Evidence: evidence/rerun/pink/F-195.json

TR-PINK-F-196 / DRO conservative R threshold

IF

Invoke F-196 with exactly these inputs: . Real values use finite decimal text; null remains unknown.

HOW

Source expression: $d_R = \max(d_A, d_B) = 3e-21 \text{ m}$. Current Bangel expression: `math.max(0.000000000000000000000005, 0.000000000000000000000003)`. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific `PINK_MISSING_*` HOLD; failed profile checks produce `PINK_DOMAIN`. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs `{}`; expected `0.000000000000000000000003`. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 0 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

length

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D004 pp. 2,7

Evidence: `evidence/rerun/pink/F-196.json`

TR-PINK-F-197 / DRO upper spherical reference

IF

Invoke F-197 with exactly these inputs: . Real values use finite decimal text; null remains unknown.

HOW

Source expression: $d_U = 0.15 \text{ nm} = 1.5e-10 \text{ m}$. Current Bangel expression: $0.15 * 0.000000001$. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {}; expected 0.00000000015. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 0 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

length

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D004 pp. 2,7

Evidence: evidence/rerun/pink/F-197.json

TR-PINK-F-198 / DRO declared interval

IF

Invoke F-198 with exactly these inputs: diameter: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: d in $[d_R, d_U]$. Current Bangel expression: $diameter \geq 0.000000000000000000000003$ and $diameter \leq 0.000000000015$. Require every input to be known. Require $diameter \geq 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"diameter": "0.0000000001"}; expected true. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 1 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

length

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D004 pp. 2,7

Evidence: evidence/rerun/pink/F-198.json

TR-PINK-F-199 / DRO reference radius

IF

Invoke F-199 with exactly these inputs: diameter: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $r_{DRO} = d/2$. Current Bangel expression: $diameter / 2.0$. Require every input to be known. Require $diameter \geq 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"diameter": "0.0000000001"}; expected 0.00000000005. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 1 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

length

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D004 pp. 2,7

Evidence: evidence/rerun/pink/F-199.json

TR-PINK-F-200 / DRO spherical reference volume

IF

Invoke F-200 (DRO spherical reference volume) only with the source-defined inputs, scope, evidence and result dimension (volume). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $V_{DRO} = 4 \cdot \pi \cdot r_{DRO}^3 / 3$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

volume

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D004 pp. 3,7

Evidence: evidence/rerun/pending/F-200.json

TR-PINK-F-201 / DRO interval ratio

IF

Invoke F-201 with exactly these inputs: . Real values use finite decimal text; null remains unknown.

HOW

Source expression: $\text{Gamma_D} = d_U/d_R$. Current Bangel expression: 0.00000000015 / 0.0000000000000000000003. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {}; expected 50000000000. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 0 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

ratio

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D004 pp. 3,7

Evidence: evidence/rerun/pink/F-201.json

TR-PINK-F-202 / DRO quantity count

IF

Invoke F-202 (DRO quantity count) only with the source-defined inputs, scope, evidence and result dimension (count). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $N_{DRO} = \text{floor}(Q_{\text{observed}}/q_{\text{unit}})$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

count

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D004 pp. 3,7

Evidence: evidence/rerun/pending/F-202.json

TR-PINK-F-203 / DRO remainder

IF

Invoke F-203 (DRO remainder) only with the source-defined inputs, scope, evidence and result dimension (quantity). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $Q_{rem} = Q_{observed} - N_{DRO} \cdot q_{unit}$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

quantity

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D003 pp. 2; D004 pp. 3,7

Evidence: evidence/rerun/pending/F-203.json

TR-PINK-F-204 / Pearl-node allocation count

IF

Invoke F-204 (Pearl-node allocation count) only with the source-defined inputs, scope, evidence and result dimension (count). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $N_P = \text{ceil}(N_{DRO}/C_P)$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

count

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D003 pp. 2; D004 pp. 3,7

Evidence: evidence/rerun/pending/F-204.json

TR-PINK-F-205 / DRO-Pearl handoff balance

IF

Invoke F-205 (DRO-Pearl handoff balance) only with the source-defined inputs, scope, evidence and result dimension (count). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $N_{DRO,in} = N_{DRO,pearl} + N_{DRO,held} + N_{DRO,escaped} + r_{DRO}$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

count

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D004 pp. 3,7

Evidence: evidence/rerun/pending/F-205.json

TR-PINK-F-206 / DRO R-state gate

IF

Invoke F-206 (DRO R-state gate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $G_R = \text{scale_interval_valid} \text{ AND } \text{source_bound} \text{ AND } \text{units_valid}$. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D004 pp. 3,7

Evidence: evidence/rerun/pending/F-206.json

TR-PINK-F-207 / DRO R1 gate

IF

Invoke F-207 (DRO R1 gate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $G_{R1} = G_R \text{ AND observed AND unresolved_items} > 0$. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D004 pp. 4,7

Evidence: evidence/rerun/pending/F-207.json

TR-PINK-F-208 / DRO R2 gate

IF

Invoke F-208 (DRO R2 gate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $G_{R2} = G_R \text{ AND observed AND all_required_evidence_pass}$. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D004 pp. 4,7

Evidence: evidence/rerun/pending/F-208.json

TR-PINK-F-209 / Optical wavelength

IF

Invoke F-209 with exactly these inputs: wave_speed: Real, frequency: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $\lambda = c/f$. Current Bangel expression: wave_speed / frequency. Require every input to be known. Require wave_speed > 0.0 and frequency > 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"wave_speed": "300", "frequency": "100"}; expected 3. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

length

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D004 pp. 4,7

Evidence: evidence/rerun/pink/F-209.json

TR-PINK-F-211 / Photon count estimate

IF

Invoke F-211 with exactly these inputs: power: Real, duration: Real, planck_constant: Real, frequency: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $N_{\gamma} = P \cdot \Delta t / (h \cdot f)$. Current Bangel expression: $\text{power} * \text{duration} / (\text{planck_constant} * \text{frequency})$. Require every input to be known. Require power ≥ 0.0 and duration ≥ 0.0 and planck_constant > 0.0 and frequency > 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"power": "6", "duration": "2", "planck_constant": "2", "frequency": "3"}; expected 2. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 4 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

count

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D004 pp. 4,7

Evidence: evidence/rerun/pink/F-211.json

TR-PINK-F-212 / Optical coupling evidence

IF

Invoke F-212 with exactly these inputs: coupling_efficiency: Real, photon_estimate: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $N_{couple} = \eta_c \cdot N_{gamma}$. Current Bangel expression: coupling_efficiency * photon_estimate. Require every input to be known. Require coupling_efficiency >= 0.0 and coupling_efficiency <= 1.0 and photon_estimate >= 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"coupling_efficiency": "0.25", "photon_estimate": "12"}; expected 3. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

count

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D004 pp. 4,7

Evidence: evidence/rerun/pink/F-212.json

TR-PINK-F-213 / Optical admissibility

IF

Invoke F-213 (Optical admissibility) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $G_{opt} = calibrated_band \text{ AND } measured_power \text{ AND } eta_c_evidenced \text{ AND } uncertainty_valid$. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D004 pp. 5,7

Evidence: evidence/rerun/pending/F-213.json

TR-PINK-F-214 / DRO collection rate

IF

Invoke F-214 with exactly these inputs: count_delta: Real, time_delta: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $R_{DRO} = \Delta N_{DRO} / \Delta t$. Current Bangel expression: count_delta / time_delta. Require every input to be known. Require time_delta > 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"count_delta": "-6", "time_delta": "2"}; expected -3. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

count/time

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D004 pp. 5,7

Evidence: evidence/rerun/pink/F-214.json

TR-PINK-F-215 / DRO scale uncertainty

IF

Invoke F-215 (DRO scale uncertainty) only with the source-defined inputs, scope, evidence and result dimension (length). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $U_d = k \cdot \sqrt{J \cdot \text{Sigma} \cdot J^T + u_{\text{model}}^2}$. Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

length

REMAINING REQUIREMENT

Implement the source-defined vector/matrix, integer-count, geometric or numerical operator through Bangel and native C#. Specify dimensions, decimal precision, bounds and negative/unknown cases; do not replace vectors with an unmarked scalar.

SOURCE REFERENCES

D004 pp. 5,7

Evidence: evidence/rerun/pending/F-215.json

TR-PINK-F-216 / DRO interval classification

IF

Invoke F-216 (DRO interval classification) only with the source-defined inputs, scope, evidence and result dimension (length). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $I_d = [d_{\text{hat}} - U_d, d_{\text{hat}} + U_d]$. Bind this formula ID to its typed value or invariant and source-specific tests. Existing language primitives are useful but do not constitute a complete formula contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

length

REMAINING REQUIREMENT

Bind this formula ID to its typed value or invariant and source-specific tests. Existing language primitives are useful but do not constitute a complete formula contract.

SOURCE REFERENCES

D004 pp. 5,7

Evidence: evidence/rerun/pending/F-216.json

TR-PINK-F-217 / DRO capacity slack

IF

Invoke F-217 with exactly these inputs: headroom_fraction: Real, capacity: Real, load: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $S_k = (1-h_k)C_k - L_k$. Current Bangel expression: $(1.0 - \text{headroom_fraction}) * \text{capacity} - \text{load}$. Require every input to be known. Require headroom_fraction ≥ 0.0 and headroom_fraction < 1.0 and capacity > 0.0 and load ≥ 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"headroom_fraction": "0.1", "capacity": "100", "load": "95"}; expected -5. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

quantity

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D003 pp. 2; D004 pp. 5,7

Evidence: evidence/rerun/pink/F-217.json

TR-PINK-F-218 / DRO overflow vector

IF

Invoke F-218 with exactly these inputs: headroom_fraction: Real, capacity: Real, load: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $E_k = \max(0, L_k(1-h_k)C_k)$. Current Bangel expression: `math.max(0.0, load - (1.0 - headroom_fraction) * capacity)`. Require every input to be known. Require `headroom_fraction >= 0.0` and `headroom_fraction < 1.0` and `capacity > 0.0` and `load >= 0.0`.

THEN

Emit the scoped calculation result. Missing inputs produce their specific `PINK_MISSING_*` HOLD; failed profile checks produce `PINK_DOMAIN`. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs `{"headroom_fraction": "0.1", "capacity": "100", "load": "95"}`; expected 5. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

quantity

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D003 pp. 2; D004 pp. 5,7

Evidence: `evidence/rerun/pink/F-218.json`

TR-PINK-F-219 / DRO ledger balance

IF

Invoke F-219 with exactly these inputs: incoming: Real, allocated: Real, retained: Real, transferred: Real, escaped: Real, stored_delta: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $r_Q = Q_{in} - Q_{alloc} - Q_{retained} - Q_{transferred} - Q_{escaped} - \Delta Q_{stored}$. Current Bangel expression: incoming - allocated - retained - transferred - escaped - stored_delta. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"incoming": "100", "allocated": "10", "retained": "20", "transferred": "30", "escaped": "5", "stored_delta": "35"}; expected 0. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 6 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

quantity

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D003 pp. 2; D004 pp. 5,7
Evidence: evidence/rerun/pink/F-219.json

TR-PINK-F-220 / DRO energy ledger

IF

Invoke F-220 with exactly these inputs: incoming: Real, stored: Real, start: Real, restart: Real, loss: Real, containment: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $r_E = E_{in} - E_{stored} - E_{start} - E_{restart} - E_{loss} - E_{containment}$. Current Bangel expression: incoming - stored - start - restart - loss - containment. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"incoming": "100", "stored": "40", "start": "20", "restart": "10", "loss": "20", "containment": "10"}; expected 0. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 6 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D002 pp. 2,3; D016 pp. 2,4
Evidence: evidence/rerun/pink/F-220.json

TR-PINK-F-221 / Available start energy lower bound

IF

Invoke F-221 with exactly these inputs: solar_low: Real, acoustic_low: Real, other_low: Real, loss_high: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $E_{avail,L} = E_{solar,L} + E_{acoustic,L} + E_{other,L} - E_{loss,H}$. Current Bangel expression: solar_low + acoustic_low + other_low - loss_high. Require every input to be known. Require solar_low >= 0.0 and acoustic_low >= 0.0 and other_low >= 0.0 and loss_high >= 0.0.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"solar_low": "10", "acoustic_low": "3", "other_low": "2", "loss_high": "4"}; expected 11. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 4 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D002 pp. 2,3; D016 pp. 2,4
Evidence: evidence/rerun/pink/F-221.json

TR-PINK-F-222 / Start gate

IF

Invoke F-222 (Start gate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $G_{start} = E_{avail}, L \geq M_E(E_{start}, H + E_{restart}, H)$ AND all_safety_gates. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D002 pp. 2,3; D016 pp. 2,4

Evidence: evidence/rerun/pending/F-222.json

TR-PINK-F-223 / Restart reserve

IF

Invoke F-223 with exactly these inputs: reserve_low: Real, critical_high: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $E_{\text{restart},L} = E_{\text{reserve},L} - E_{\text{critical},H}$. Current Bangel expression: reserve_low - critical_high. Require every input to be known. Require reserve_low ≥ 0.0 and critical_high ≥ 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"reserve_low": "30", "critical_high": "20"}; expected 10. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D002 pp. 2,3; D016 pp. 2,4
Evidence: evidence/rerun/pink/F-223.json

TR-PINK-F-224 / Solar contribution

IF

Invoke F-224 (Solar contribution) only with the source-defined inputs, scope, evidence and result dimension (energy). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $E_{\text{solar}} = \text{integral}(P_{\text{solar}}(t) \, dt)$. Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

SOURCE REFERENCES

D002 pp. 2,3; D016 pp. 2,4

Evidence: evidence/rerun/pending/F-224.json

TR-PINK-F-225 / Acoustic/noise contribution

IF

Invoke F-225 (Acoustic/noise contribution) only with the source-defined inputs, scope, evidence and result dimension (energy). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $E_{\text{acoustic}} = \text{integral}(\eta_a(t) I(t) A(t) dt)$. Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

SOURCE REFERENCES

D002 pp. 2,3; D016 pp. 2,4

Evidence: evidence/rerun/pending/F-225.json

TR-PINK-F-226 / Generic separation-work lower bound

IF

Invoke F-226 with exactly these inputs: separation_work: Real, free_energy_change: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $W_{sep} \geq \Delta G_{sep}$. Current Bangel expression: $separation_work \geq free_energy_change$. Require every input to be known. No additional domain predicates are declared by this scalar profile.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"separation_work": "12", "free_energy_change": "10"}; expected true. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 0 supplied domain cases passed.

SOURCE DIMENSION

energy

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D002 pp. 2,3; D016 pp. 2,4

Evidence: evidence/rerun/pink/F-226.json

TR-PINK-F-227 / Species availability

IF

Invoke F-227 with exactly these inputs: species_fraction: Real, source_amount: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $n_species = x_species * n_source$. Current Bangel expression: $species_fraction * source_amount$. Require every input to be known. Require $species_fraction \geq 0.0$ and $species_fraction \leq 1.0$ and $source_amount \geq 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"species_fraction": "0.25", "source_amount": "12"}; expected 3. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

amount

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D002 pp. 3; D016 pp. 3,4

Evidence: evidence/rerun/pink/F-227.json

TR-PINK-F-228 / Conversion efficiency

IF

Invoke F-228 with exactly these inputs: output_energy: Real, input_energy: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $\eta = E_{out}/E_{in}$, $0 \leq \eta \leq 1$. Current Bangel expression: output_energy / input_energy. Require every input to be known. Require output_energy >= 0.0 and input_energy > 0.0 and output_energy <= input_energy.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"output_energy": "8", "input_energy": "10"}; expected 0.8. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

ratio

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D002 pp. 3; D016 pp. 3,4

Evidence: evidence/rerun/pink/F-228.json

TR-PINK-F-229 / Controlled logical release

IF

Invoke F-229 (Controlled logical release) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $G_{\text{release}} = \text{authorization AND destination_capacity AND conservation AND safety}$. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D002 pp. 3; D016 pp. 3,4

Evidence: evidence/rerun/pending/F-229.json

TR-PINK-F-230 / DRO thermal gate

IF

Invoke F-230 with exactly these inputs: temperature_high: Real, allowable_temperature: Real, temperature_margin: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $T_H \leq T_{allow} - \Delta T_{margin}$. Current Bangel expression: $temperature_high \leq allowable_temperature - temperature_margin$. Require every input to be known. Require $temperature_high > 0.0$ and $allowable_temperature > 0.0$ and $temperature_margin \geq 0.0$.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"temperature_high": "300", "allowable_temperature": "320", "temperature_margin": "10"}; expected true. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 3 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

temperature

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D016 pp. 3,4

Evidence: evidence/rerun/pink/F-230.json

TR-PINK-F-231 / Semiconductor DRO charge balance

IF

Invoke F-231 (Semiconductor DRO charge balance) only with the source-defined inputs, scope, evidence and result dimension (charge). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $\Delta Q = \int (I_{\text{intake}} - I_{\text{leak}} - I_{\text{release}}) dt + r_Q$. Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

charge

REMAINING REQUIREMENT

Provide the sampled-signal input contract, domain/boundary, timestamps, quadrature/interpolation and error/missing-data policy. Retain each formula's units and source integrand.

SOURCE REFERENCES

D016 pp. 3,4

Evidence: evidence/rerun/pending/F-231.json

TR-PINK-F-232 / Semiconductor Pearl-node memory

IF

Invoke F-232 with exactly these inputs: objects: Real, lineage: Real, uncertainty: Real, receipts: Real, headroom: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $B_P = B_DRO + B_lineage + B_uncertainty + B_receipts + B_headroom$. Current Bangel expression: objects + lineage + uncertainty + receipts + headroom. Require every input to be known. Require objects ≥ 0.0 and lineage ≥ 0.0 and uncertainty ≥ 0.0 and receipts ≥ 0.0 and headroom ≥ 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"objects": "10", "lineage": "2", "uncertainty": "3", "receipts": "4", "headroom": "5"}; expected 24. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 5 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

bytes

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D016 pp. 3,4

Evidence: evidence/rerun/pink/F-232.json

TR-PINK-F-233 / Semiconductor wake-reserve gate

IF

Invoke F-233 with exactly these inputs: node_energy_low: Real, margin_factor: Real, wake_high: Real, restart_high: Real. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $E_{node,L} \geq M_E(E_{wake,H} + E_{restart,H})$. Current Bangel expression: $node_energy_low \geq margin_factor * (wake_high + restart_high)$. Require every input to be known. Require node_energy_low ≥ 0.0 and margin_factor ≥ 1.0 and wake_high ≥ 0.0 and restart_high ≥ 0.0 .

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"node_energy_low": "30", "margin_factor": "2", "wake_high": "10", "restart_high": "5"}; expected true. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 4 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D016 pp. 4

Evidence: evidence/rerun/pink/F-233.json

TR-PINK-F-234 / Semiconductor profile isolation

IF

Invoke F-234 (Semiconductor profile isolation) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $G_SC = profile == SC \text{ AND } no_LS_value_inheritance$. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D005 pp. 2,3

Evidence: evidence/rerun/pending/F-234.json

TR-PINK-F-235 / Lecanto byte-source digest

IF

Invoke F-235 (Lecanto byte-source digest) only with the source-defined inputs, scope, evidence and result dimension (digest). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $H_{src} = \text{SHA256}(\text{source_bytes})$. Define exact input bytes, image dimensions/channels and numerical normalization where applicable, then implement hashing or image residuals without discarding original provenance.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

digest

REMAINING REQUIREMENT

Define exact input bytes, image dimensions/channels and numerical normalization where applicable, then implement hashing or image residuals without discarding original provenance.

SOURCE REFERENCES

D005 pp. 2,3

Evidence: evidence/rerun/pending/F-235.json

TR-PINK-F-236 / Lecanto pixel residual

IF

Invoke F-236 (Lecanto pixel residual) only with the source-defined inputs, scope, evidence and result dimension (signal). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $D_{px} = (1/N) \sum ||I_{test}-I_{ref}||_2$. Define exact input bytes, image dimensions/channels and numerical normalization where applicable, then implement hashing or image residuals without discarding original provenance.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

signal

REMAINING REQUIREMENT

Define exact input bytes, image dimensions/channels and numerical normalization where applicable, then implement hashing or image residuals without discarding original provenance.

SOURCE REFERENCES

D005 pp. 2,3

Evidence: evidence/rerun/pending/F-236.json

TR-PINK-F-237 / Lecanto spectral residual

IF

Invoke F-237 (Lecanto spectral residual) only with the source-defined inputs, scope, evidence and result dimension (signal). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $D_{fft} = ||FFT(I_{test})-FFT(I_{ref})||_2$. Define exact input bytes, image dimensions/channels and numerical normalization where applicable, then implement hashing or image residuals without discarding original provenance.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

signal

REMAINING REQUIREMENT

Define exact input bytes, image dimensions/channels and numerical normalization where applicable, then implement hashing or image residuals without discarding original provenance.

SOURCE REFERENCES

D005 pp. 2,3

Evidence: evidence/rerun/pending/F-237.json

TR-PINK-F-238 / Lecanto provenance completeness

IF

Invoke F-238 with exactly these inputs: complete_links: Int, required_links: Int. Real values use finite decimal text; null remains unknown.

HOW

Source expression: $P_{prov} = \frac{complete_required_links}{required_links}$. Current Bangel expression: complete_links / required_links. Require every input to be known. Require required_links > 0 and complete_links >= 0 and complete_links <= required_links.

THEN

Emit the scoped calculation result. Missing inputs produce their specific PINK_MISSING_* HOLD; failed profile checks produce PINK_DOMAIN. A false numeric predicate can occur in a PASS calculation receipt; it is not permission.

CURRENT EVIDENCE

Fixture inputs {"complete_links": 3, "required_links": 4}; expected 0.75. Result matched through Bangel, admitted JP, the Bangel API, with validated receipt outputs. 2 missing-input cases and 1 supplied domain cases passed.

SOURCE DIMENSION

ratio

REMAINING REQUIREMENT

Complete the source-defined measurement/evidence contract, units and calibration bindings. Native C# and Hagar formula-ID bindings remain unverified in this rerun.

SOURCE REFERENCES

D005 pp. 2,3

Evidence: evidence/rerun/pink/F-238.json

TR-PINK-F-239 / Lecanto intent hypothesis

IF

Invoke F-239 (Lecanto intent hypothesis) only with the source-defined inputs, scope, evidence and result dimension (hypothesis). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $H_{\text{intent}} = f(\text{words}, \text{context}, \text{declared_purpose}, \text{provenance})$. The expression names a model or transition function. Recover its normative definition, inputs, state and failure behavior before implementing it.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

hypothesis

REMAINING REQUIREMENT

The expression names a model or transition function. Recover its normative definition, inputs, state and failure behavior before implementing it.

SOURCE REFERENCES

D005 pp. 2,3

Evidence: evidence/rerun/pending/F-239.json

TR-PINK-F-240 / Lecanto transformation gate

IF

Invoke F-240 (Lecanto transformation gate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $G_{edit} = source_preserved \text{ AND } modification_disclosed \text{ AND } purpose_allowed \text{ AND } safety_pass$. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D005 pp. 3

Evidence: evidence/rerun/pending/F-240.json

TR-PINK-F-241 / Lecanto reject gate

IF

Invoke F-241 (Lecanto reject gate) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $G_{reject} = provenance_{fail} \text{ OR } harmful_{purpose} \text{ OR } undeclared_{transform}$. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D005 pp. 3

Evidence: evidence/rerun/pending/F-241.json

TR-PINK-F-242 / R8 command admissibility

IF

Invoke F-242 (R8 command admissibility) only with the source-defined inputs, scope, evidence and result dimension (logical). A complete executable parameter schema has not been bound to this ID.

HOW

Preserve the source relation exactly: $G_{R8} = DRO_valid \wedge Pearl_node_valid \wedge Lecanto_when_image \wedge MK_pass \wedge JO_pass \wedge ethics \wedge MJ_permit$. Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

THEN

Keep this formula OPEN. The current paper host rejects this ID with PAPER_PROFILE_UNIMPLEMENTED. The Teal assertion gate holds when method/proof is false. This expected refusal is not a completed implementation.

CURRENT EVIDENCE

Fresh refusal and hold evidence is recorded individually; no scalar result, transition, permit or physical effect is fabricated.

SOURCE DIMENSION

logical

REMAINING REQUIREMENT

Define and bind required evidence, validation rules, state/receipt transitions and authority scope. Caller-supplied Boolean assertions alone do not complete this contract.

SOURCE REFERENCES

D005 pp. 3

Evidence: evidence/rerun/pending/F-242.json

TR-PINK-GATEWAY / Pink gateway through Teal

IF

The recovered gateway profile receives its exact declared Boolean evidence assertions; every field must be known.

HOW

```
{ "inputs": { "purpose_known": "Bool", "semantics_pass": "Bool", "physics_pass": "Bool", "proof_pass": "Bool", "safety_pass": "Bool", "resources_reconciled": "Bool", "permit_pass": "Bool" }, "checks": [ "purpose_known", "semantics_pass", "physics_pass", "proof_pass", "safety_pass", "resources_reconciled", "permit_pass" ], "body": "emit state = \"R2\"\\nemit allocation = 48383829.0 / 100000000.0\\nemit reserve = 51616171.0 / 100000000.0", "notes": "Software gate evaluation over supplied assertions. It does not authenticate evidence or permissions and is not the complete Pink declaration compiler." }
```

THEN

Treat the emitted gateway state and the Teal PASS_EVIDENCE value as supplied-assertion results. They authenticate neither the observations nor an MJ permit.

CURRENT EVIDENCE

The gateway fixture, each missing Boolean input, both language paths and both in-process APIs were run. Teal all-true, each-false and each-missing conditions were also run independently.

REMAINING REQUIREMENT

Bind assertions to independently checked evidence and an actual authority contract before treating them as authenticated facts.

SOURCE REFERENCES

Pink GATEWAY; Teal IF-HOW-THEN

Evidence: evidence/rerun/pink/GATEWAY.json

Fundamental core logic

287 individual papers. Source references, current evidence and open requirements accompany every item.

Documentary rerun complete for recovered scope. Executable implementation remains partial.

Each item retains its own identity, condition, method, outcome and evidence state. An individual paper or a passing assertion does not close a missing formula contract.

Bangel 58153a770206e2a3b500671aa4ca50e20c9c3a7d
Associated core 0d89fdf7f7914b9fdb5e62533613bfab41d34014

TR-CORE-IDENTITY / Bangel and member identities

IF

A source, IR or API object declares its language and version.

HOW

Preserve Bangel .bangel / Elsa compiler / Joanna runtime / JP representation / MJ boundary, and preserve historical Bangel contracts in their separate target.

THEN

Reject mismatched identities or use only an explicit compatibility profile. Do not infer grammar equivalence from shared lineage.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

bangel:language/python/src/bangel/identity.py; bangel:language/python/src/bangel/compiler.py;
associated-core:reference/src/bangel/identity.py; associated-core:reference/src/bangel/compiler.py

TR-CORE-UNKNOWN / Known zero and typed unknown

IF

A value is absent, disputed or explicitly zero.

HOW

Carry missingness in the declared type; preserve zero as a known numeric value. Propagate unknown through arithmetic and hold required unknown conditions.

THEN

A missing measurement remains missing. No default numeric zero may become observed evidence.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

bangel:language/python/src/bangel/values.py; bangel:language/python/src/bangel/strict_runtime.py;
bangel:language/python/src/bangel/ir_types.py; associated-core:reference/src/bangel/values.py;
associated-core:reference/src/bangel/strict_runtime.py; associated-core:reference/src/bangel/ir_types.py

TR-CORE-UNITS / Dimensions and measurement uncertainty

IF

Typed quantities or measurements participate in an operation.

HOW

Check compatible dimensions and explicit conversion rules. Preserve absolute uncertainty; reject unsupported measurement propagation rather than inventing its policy.

THEN

Return the supported typed quantity or the precise diagnostic/HOLD.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

bangel:language/python/src/bangel/units.py; bangel:language/python/src/bangel/values.py;
bangel:language/python/src/bangel/ir_types.py; associated-core:reference/src/bangel/units.py;
associated-core:reference/src/bangel/values.py; associated-core:reference/src/bangel/ir_types.py

TR-CORE-MASS / Mass floor and signed mass change

IF

A mass, mass delta or sub-floor R2 claim is supplied.

HOW

Keep nonnegative mass separate from signed mass delta, and apply the source profile's 23 mg floor and challenge-receipt obligations where that profile defines them.

THEN

Reject negative mass while preserving valid signed deltas; a scalar 23 mg reference does not complete F-004.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

bangel:language/python/src/bangel/evaluator.py; bangel:language/python/src/bangel/values.py;
bangel:language/python/src/bangel/ir_types.py; associated-core:reference/src/bangel/evaluator.py;
associated-core:reference/src/bangel/values.py; associated-core:reference/src/bangel/ir_types.py

TR-CORE-GRAMMAR / Grammar and source recovery

IF

Strict source reaches the compiler.

HOW

Tokenize and parse the frozen grammar, retain source spans and recover semantics before lowering. Distinguish legacy and general source profiles.

THEN

Return a typed source model or source-located diagnostics; parsing success does not authorize execution.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

bangel:language/python/src/bangel/frontend/lexer.py; bangel:language/python/src/bangel/frontend/semantics.py; bangel:language/python/src/bangel/frontend/parser.py; associated-core:reference/src/bangel/frontend/lexer.py; associated-core:reference/src/bangel/frontend/semantics.py; associated-core:reference/src/bangel/frontend/parser.py

TR-CORE-BINDINGS / Names, scopes and bindings

IF

Declarations, references and assignments enter semantic analysis.

HOW

Check duplicate/shadowed names, visibility after declaration, annotation requirements and immutable versus mutable bindings.

THEN

Unresolved or invalid bindings fail semantic validation before typed IR is emitted.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

bangel:language/python/src/bangel/semantics.py; bangel:language/python/src/bangel/frontend/semantics.py;
associated-core:reference/src/bangel/semantics.py; associated-core:reference/src/bangel/frontend/semantics.py

TR-CORE-EFFECTS / Effects and bounded calls

IF

A function, module or loop declares work.

HOW

Validate declared/inferred effects, bounded loop behavior and permitted call structure; carry admitted resource limits into execution.

THEN

Reject unsupported effect or recursion/resource behavior rather than treating it as an implicit host capability.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

bangel:language/python/src/bangel/compiler.py; bangel:language/python/src/bangel/strict_runtime.py;
bangel:language/python/src/bangel/frontend/semantics.py; associated-core:reference/src/bangel/compiler.py;
associated-core:reference/src/bangel/strict_runtime.py; associated-core:reference/src/bangel/frontend/semantics.py

TR-CORE-LOWERING / Elsa lowering into JP

IF

A source/project passes semantic validation.

HOW

Lower symbols, types, expressions, modules and source provenance into digest-bound JP-IR using the declared registry.

THEN

Produce a verifiable representation; independent admission must still check it.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

bangel:language/python/src/bangel/compiler.py; bangel:language/python/src/bangel/frontend/lower.py;
associated-core:reference/src/bangel/compiler.py; associated-core:reference/src/bangel/frontend/lower.py

TR-CORE-ADMISSION / Independent JP admission

IF

An IR object arrives from any caller.

HOW

Check closed schema, version identities, types, units, provenance, registry and cross-field consistency before execution. Rehashing a malformed object must not make it valid.

THEN

Reject mismatched or forged structure with an IR diagnostic; only admitted IR reaches Joanna.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

bangel:language/python/src/bangel/ir_contract.py; bangel:language/python/src/bangel/ir_registry.py;
bangel:language/python/src/bangel/ir.py; bangel:language/python/src/bangel/ir_types.py;
bangel:language/python/src/bangel/ir_crossfields.py; associated-core:reference/src/bangel/ir_contract.py;
associated-core:reference/src/bangel/ir_registry.py; associated-core:reference/src/bangel/ir.py;
associated-core:reference/src/bangel/ir_types.py; associated-core:reference/src/bangel/ir_crossfields.py

TR-CORE-RUNTIME / Joanna execution and hold behavior

IF

A verified program is submitted with bounded resources.

HOW

Execute admitted instructions and propagate typed values; distinguish a policy HOLD from a transport/tool error. Inspect receipt status even if a CLI exits zero.

THEN

Emit bounded outputs and a receipt with explicit status and effect flags.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

bangel:components/thermoelectric-reference/src/mjps/runtime.py; bangel:language/python/src/bangel/evaluator.py;
bangel:language/python/src/bangel/strict_runtime.py; bangel:language/python/src/bangel/runtime.py;
associated-core:reference/src/bangel/evaluator.py; associated-core:reference/src/bangel/strict_runtime.py;
associated-core:reference/src/bangel/runtime.py

TR-CORE-RECEIPTS / Receipt binding and replay

IF

A receipt is presented for inspection, comparison or replay.

HOW

Verify schema, roots, source/program linkage, resource usage and cross-linked evidence. Replay must bind the same program and compare the complete outcome.

THEN

Reject tampering, incorrect program linkage or a replay mismatch. A digest is integrity evidence, not authentication by itself.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

bangel:language/python/src/bangel/receipts.py; bangel:language/python/src/bangel/inspector.py;
bangel:language/python/src/bangel/receipt_contract.py; associated-core:reference/src/bangel/receipts.py;
associated-core:reference/src/bangel/inspector.py; associated-core:reference/src/bangel/receipt_contract.py;
associated-core:products/water/legacy/quantum-security-python/src/mjos_qs/receipts.py

TR-CORE-NODES / R lifecycle, nodes and variance

IF

A model enters R/R1, prediction nodes and an R2/evidence stage.

HOW

Keep lifecycle order and source-specific node rules explicit. The language topology model, Pink node gain and water-risk node decay are distinct equations; do not replace them with one generic damping rule.

THEN

Retain each model's bounded result, provenance and missingness. A traversal marker is not proof of physical observation.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

bangel:language/python/src/bangel/topology.py; bangel:language/python/src/bangel/state.py;
associated-core:reference/src/bangel/topology.py; associated-core:reference/src/bangel/state.py

TR-CORE-GIN-INTERVAL / GIN interval arithmetic

IF

Temporal endpoints are submitted for arithmetic or comparison.

HOW

Validate interval shape, integer bounds and clock identity; compute only admitted interval operations and preserve outward bounds.

THEN

Known zero duration stays known; unknown or incomparable values do not become a numeric latency saving.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

bangel:components/thermoelectric-reference/src/mjps/gin.py; bangel:language/python/src/bangel/gin.py

TR-CORE-GIN-CLOCK / Admitted clock transformation

IF

Two times use different clock domains.

HOW

Require an admitted transformation with calibration references, validity window and error interval. Normalize with exact outward rounding.

THEN

Reject missing/stale/unbound transforms; uncertainty must not silently shrink.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

bangel:language/python/src/bangel/gin_clock.py

TR-CORE-GIN-STATES / Typed temporal states and evidence

IF

Known, bounded, unknown, inapplicable, disputed or incomparable temporal evidence is supplied.

HOW

Preserve nominal state, lineage and evidence atoms. Only the permitted states participate in interval arithmetic; empty conflicting intersections remain disputed.

THEN

Return typed results or HOLD. The broader GIN lifecycle and MJ host remain distinct open work.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

bangel:language/python/src/bangel/gin_models.py

TR-CORE-API-SCHEMA / API request and response contracts

IF

A caller submits an API frame.

HOW

Require exact API/stack identities, closed fields and supported operations; reject duplicate keys, nonfinite values, capability tokens and invalid source shapes. Validate the returned receipt binding.

THEN

Return a structured result or diagnostic with the matching request ID. Transport success is not automatically an evidence PASS.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

bangel:language/python/src/bangel/api.py; bangel:language/python/src/bangel/client.py; associated-core:reference/src/bangel/api.py; associated-core:reference/src/bangel/client.py; associated-core:products/water/legacy/hagar-python/src/mjos_hagar/api.py

TR-CORE-API-LIMITS / API process and resource boundaries

IF

A service request declares limits or cancellation.

HOW

Allow only bounded attenuation of defaults; distinguish the trusted in-process facade from the isolated/stdio host that enforces wall time and process handling.

THEN

Report cancellation or resource refusal explicitly. In-process fixture success does not establish hostile-host isolation.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

bangel:language/python/src/bangel/api.py; bangel:language/python/src/bangel/client.py; associated-core:reference/src/bangel/api.py; associated-core:reference/src/bangel/client.py; associated-core:products/water/legacy/hagar-python/src/mjos_hagar/api.py

TR-CORE-SDK / Service adapters and native subset

IF

C++, Rust, R or a managed client requests language work.

HOW

Retain the exact service protocol and value representation. Separate adapters calling the Python service from the smaller native decimal kernel and independently managed .NET stack.

THEN

State the actual execution host and supported subset. No automatic whole-language optimization or complete cross-language parity follows.

CURRENT EVIDENCE

This requirement paper is source-grounded. Native .NET, C++/Rust/R host checks and physical execution were not rerun.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

adapters native dotnet

TR-CORE-HAGAR-INPUT / Hagar probe admission

IF

Exactly three independently named sensor slots and prior controller state are submitted.

HOW

Reject duplicate identities and stale sequences; exclude missing, invalid, stale or uncalibrated probes; require at least two usable probes after robust filtering.

THEN

Return ADVISE only for the bounded model; otherwise HOLD preserves previous state and explicit missing salinity/variance.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

associated-core:products/water/bangel/hagar.bangel

TR-CORE-HAGAR-STATS / Hagar robust salinity and population variance

IF

Two or three probes survive input qualification.

HOW

Use the median/MAD threshold $\max(0.25, 4.5 * \text{MAD})$; recompute accepted count, mean and squared deviations. Divide variance by the accepted population count.

THEN

For the supplied demo, mean 35.01 and variance 0.0014 match. This variance is distinct from a between-node difference.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

associated-core:products/water/bangel/hagar.bangel

TR-CORE-HAGAR-ADVICE / Hagar pressure and speed bounds

IF

Valid probes and a valid configuration allow an advisory calculation.

HOW

Compute the inherited NaCl-equivalent osmotic estimate; add margin/variance guard, reduce the pressure step with uncertainty, and clamp pressure and speed changes.

THEN

Return bounded suggestions with `authorized_to_actuate=false`. The simulator equation is not a membrane-design validation.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

associated-core:products/water/bangel/hagar.bangel

TR-CORE-WATER-RISK / Water protection risk and persistence

IF

Risk values, trusted telemetry facts and up to two prior accepted scores are supplied.

HOW

Compute $0.35 \times \text{entropy} + 0.25 \times \text{authentication} + 0.40 \times \text{traffic}$. Select ELEVATED at score ≥ 0.80 or three scores ≥ 0.55 ; integrity/key compromise has immediate containment precedence.

THEN

NORMAL/ELEVATED/HOLD/CONTAINMENT remain distinct. Node one is $0.1 \times \text{score}$ and each following node divides by three.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

associated-core:products/water/bangel/protection.bangel

TR-CORE-WATER-RELEASE / Water release-evidence conjunction

IF

Water release evidence is assessed.

HOW

Require authenticated/allowed telemetry and the applicable sequence, policy, calibration, quality, permit, operator and interlock terms. Keep a supplied fact distinct from its authentication.

THEN

release_evidence_complete records the supplied conjunction; physical_release_authorized and founder_root_touched remain false.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

associated-core:products/water/bangel/protection.bangel

TR-CORE-WATER-GATEWAY / Authenticated telemetry gateway

IF

A Water-Telemetry/1 packet reaches the C# host.

HOW

Check HMAC, identity, firmware/configuration roots, positive monotonic sequence and freshness before state advancement. The host owns risk history and ignores caller-supplied history.

THEN

Reject replay or policy mismatch; record accepted frames before returning. HMAC is the current implementation, not a completed post-quantum transport.

CURRENT EVIDENCE

This requirement paper is source-grounded. Native .NET, C++/Rust/R host checks and physical execution were not rerun.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

associated-core:products/water/dotnet/Water.Core/AuthenticatedGateway.cs

TR-CORE-WATER-RESTART / Journal and restart evidence

IF

The water gateway restarts from a durable journal.

HOW

Verify links, HMAC, counters and the externally retained final root; reject a partial final line. Keep the journal and trusted external checkpoint as distinct evidence.

THEN

Fail closed on detected corruption/rollback. Losing both local history and its trusted checkpoint cannot be detected by the local chain alone.

CURRENT EVIDENCE

This requirement paper is source-grounded. Native .NET, C++/Rust/R host checks and physical execution were not rerun.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

associated-core:products/water/dotnet/Water.Core/AuthenticatedGateway.cs

TR-CORE-EGO-ENERGY / MJ-EGO-REV energy ledgers

IF

A vehicle-model energy, battery, thermal or mechanical input is supplied.

HOW

Reconcile input, stored, load and loss terms with source-defined bounds and missingness. Keep the P2 direct mechanical path and bidirectional motor-generator as separate modeled paths.

THEN

Return a simulation/accounting decision and residual. Source example values and physical vehicle performance are distinct.

CURRENT EVIDENCE

This requirement paper is source-grounded. Native .NET, C++/Rust/R host checks and physical execution were not rerun.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

associated-core:products/ego-rev/bangel/ego.bangel

TR-CORE-EGO-STATE / MJ-EGO-REV transition evidence

IF

A candidate vehicle state transition is requested.

HOW

Apply the declared 13-state evidence model and journal linkage, including required transition evidence and held/missing conditions.

THEN

Produce an offline decision; no vehicle actuator or road/bench qualification is established by these records.

CURRENT EVIDENCE

This requirement paper is source-grounded. Native .NET, C++/Rust/R host checks and physical execution were not rerun.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

associated-core:products/ego-rev/bangel/ego.bangel

TR-CORE-MJ-BOUNDARY / MJ root and permit boundary

IF

A family result proposes an external or resource effect.

HOW

Keep proposed root admission, family compilation, CAPO handoff, resource lease and current proof gates distinct. Current general-language MJ metadata does not implement the complete proposed root host.

THEN

A calculation receipt cannot mint capacity, transfer a lease to a peer, or grant physical authority. Unbound host contracts remain open.

CURRENT EVIDENCE

This requirement paper is source-grounded. Native .NET, C++/Rust/R host checks and physical execution were not rerun.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

bangel:specs/roles/ROLE-CONTRACT-RECONCILIATION.md

TR-CORE-TEAL-BRIDGE / Pink-to-Teal evidence bridge

IF

A Pink source/profile is submitted to the Teal review sequence.

HOW

Resolve its original ID, inputs, domain, output and evidence. Execute available profiles; preserve each unimplemented formula as an expected refusal. Apply IF/HOW/THEN as an explicit supplied-assertion gate.

THEN

Emit an individual documentary verdict and evidence link. PASS_EVIDENCE is not an MJ permit or a full measurement-contract completion.

CURRENT EVIDENCE

Fresh related language/paper/water checks are in the evidence ledger. The test count is suite evidence, not proof of every branch in this requirement.

REMAINING REQUIREMENT

Use the source and recorded case evidence to close remaining per-branch, native-host and full-contract coverage gaps.

SOURCE REFERENCES

bangel:papers/python/src/bangel_papers/host.py

TR-MOD-BANGEL-1EA7E9D427 / Bangel / components/thermoelectric-reference/src/jp/__init__.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 9-line source is preserved with SHA-256 d1b4d83e0724d8e1187077b1bf67f32a655ffa83f52ff34111098fb40a56ad28. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:components/thermoelectric-reference/src/jp/__init__.py

TR-MOD-BANGEL-73568028E6 / Bangel / components/thermoelectric-reference/src/jp/canonical.py

IF

This Receipt / evidence module is imported or its declared interface is invoked. Declared surface includes: decimal_text(value: Decimal); to_primitive(value: Any); _primitive_json_bytes(value: Any); canonical_json_bytes(value: Any); sha256_hex(value: Any)

HOW

Preserve exact serialization, digest binding, linkage and inspection/replay behavior without promoting integrity metadata into authority. The complete terminology-edited 77-line source is preserved with SHA-256 999a5da8039137e8f1de8108904469c2f59f17f68220227695c6cb99ebabd8c5. 6 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:components/thermoelectric-reference/src/jp/canonical.py

TR-MOD-BANGEL-8BFB07F668 / Bangel / components/thermoelectric-reference/src/mjps/_init_.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 27-line source is preserved with SHA-256 4c02561c825310c46e35a7d25ee205f91bd1f2838651ef10c005a61d46c1f24f. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:components/thermoelectric-reference/src/mjps/_init_.py

TR-MOD-BANGEL-E35924FCC7 / Bangel / components/thermoelectric-reference/src/mjps/__main__.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 4-line source is preserved with SHA-256 76fa916e93e0ae1a6c1bb51dcc0bcf289c014e9f760a47165f8a84401ccf41d7. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:components/thermoelectric-reference/src/mjps/__main__.py

TR-MOD-BANGEL-893FDF6D2F / Bangel / components/thermoelectric-reference/src/mjps/adapters.py

IF

This API / SDK module is imported or its declared interface is invoked. Declared surface includes: to_dict(self); describe(self); observe(self); describe(self); observe(self)

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 47-line source is preserved with SHA-256 e8441697a296294b624c55116965d9e29fbfd160477c8c8f68581d844fb799af. 5 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:components/thermoelectric-reference/src/mjps/adapters.py

TR-MOD-BANGEL-6CC2115FE9 / Bangel / components/thermoelectric-reference/src/mjps/bangel.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `_fail(message: str, *, line: int | None=None); _parse_number(token: str, *, name: str, line: int); _parse_optional_temperature(token: str, *, name: str, line: int); _validate_ir_decimal_text(value: Any, *, name: str, nullable: bool=False); _identifier(token: str, *, name: str, line: int)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 906-line source is preserved with SHA-256 `a4b20a954cba3dd7989bdb7d766b0b1a649b05eae9260e5eb895f7d40b1e048d`. 13 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

`bangel:components/thermoelectric-reference/src/mjps/bangel.py`

TR-MOD-BANGEL-4FD788F2B8 / Bangel / components/thermoelectric-reference/src/mjps/canonical.py

IF

This Receipt / evidence module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Preserve exact serialization, digest binding, linkage and inspection/replay behavior without promoting integrity metadata into authority. The complete terminology-edited 15-line source is preserved with SHA-256 88f7a39fe79d3b47318187fcb2b3dea8fa4e668b45b72c318ed789c2631a7854. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:components/thermoelectric-reference/src/mjps/canonical.py

TR-MOD-BANGEL-6B9E7669C2 / Bangel / components/thermoelectric-reference/src/mjps/cli.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `_render(value: Any); _write_or_print(value: Any, output: str | None, *, force: bool); build_parser(); main(argv: list[str] | None=None)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 96-line source is preserved with SHA-256 138d9af92201238e7c15971da407cd5f2f8bc6fe406f8d2732fe23aa967238b2. 4 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:components/thermoelectric-reference/src/mjps/cli.py

TR-MOD-BANGEL-8F2607357D / Bangel / components/thermoelectric-reference/src/mjps/domain.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: fixed_decimal_context(function: Callable[P, T]); wrapped(*args: P.args, **kwargs: P.kwargs); decimal(value: Any, *, name: str='value'); require_identifier(value: str, *, name: str); __post_init__(self)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 331-line source is preserved with SHA-256 e193f7439d7db3d4ca256327c4689821ed3c235553074016a48fee3d411a08f8. 18 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:components/thermoelectric-reference/src/mjps/domain.py

TR-MOD-BANGEL-A1FFA67593 / Bangel / components/thermoelectric-reference/src/mjps/errors.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 23-line source is preserved with SHA-256 05d51ee6e9738d8f2113b8d98f36dcf7a91d209310f6580de75230d98d4b09d3. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:components/thermoelectric-reference/src/mjps/errors.py

TR-MOD-BANGEL-B023BB9027 / Bangel / components/thermoelectric-reference/src/mjps/gin.py

IF

This GIN module is imported or its declared interface is invoked. Declared surface includes: expected_to_anticipated(self); anticipated_to_delivered(self); expected_to_delivered(self); to_dict(self); observation_variance(observation: ThermalObservation)

HOW

Preserve interval bounds, clock/evidence identity and typed temporal states; do not infer physical energy or authority from a temporal result. The complete terminology-edited 72-line source is preserved with SHA-256 fc48ff6ee0d3e3386985d7ebf16587166a240ff3b7a2f88c0a12edc87ea3b708. 5 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:components/thermoelectric-reference/src/mjps/gin.py

TR-MOD-BANGEL-4E4DEBB1D4 / Bangel / components/thermoelectric-reference/src/mjps/optimizer.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: enumerate_candidates(module: ThermoelectricModule, observation: ThermalObservation, demand: MissionDemand); optimize_fleet(modules: tuple[ThermoelectricModule, ...], observations: tuple[ThermalObservation, ...], demand: MissionDemand, *, max_combinations: int=MAX_COMBINATIONS)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 222-line source is preserved with SHA-256 cdf840098c00d8823c293a40521c26899f027546ff3f8e6d164df11b83a876bd. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:components/thermoelectric-reference/src/mjps/optimizer.py

TR-MOD-BANGEL-203DF302D0 / Bangel / components/thermoelectric-reference/src/mjps/physics.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `_append_reason(reasons: list[str], reason: str)`; `validate_envelope(module: ThermoelectricModule, observation: ThermalObservation)`; `_kernel_at(module: ThermoelectricModule, th: Decimal, tc: Decimal, current_a: Decimal)`; `coupled_kernel(module: ThermoelectricModule, observation: ThermalObservation, current_a: Decimal)`; `_temperature_corners(module: ThermoelectricModule, observation: ThermalObservation)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 409-line source is preserved with SHA-256 `c1e0ee73d26b494b4ca4cbd3c88fbfc38cecc2d573b22cf3248f212628e3fc03`. 10 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:components/thermoelectric-reference/src/mjps/physics.py

TR-MOD-BANGEL-97815B5B72 / Bangel / components/thermoelectric-reference/src/mjps/runtime.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `_module_from_dict(value: dict[str, Any]); _observation_from_dict(value: dict[str, Any]); _demand_from_dict(value: dict[str, Any]); execute(self, ir: dict[str, Any]); record(state: str, status: str, details: dict[str, Any])`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 344-line source is preserved with SHA-256 151134b920378b8224c31aee684075026374c9e47de3c48073e3cf6a7882c897. 5 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:components/thermoelectric-reference/src/mjps/runtime.py

TR-MOD-BANGEL-2FA63DFCB9 / Bangel / components/thermoelectric-reference/src/mjps/safety.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `__init__(self); state(self); history(self); transition(self, after: AdvisoryState, reason: str); close_from_receipt(cls, receipt: dict[str, object])`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 105-line source is preserved with SHA-256 84f980f1064264eef1293c222bdef8da0f9937dd980bf527fb155b60aa31f7d. 5 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:components/thermoelectric-reference/src/mjps/safety.py

TR-MOD-BANGEL-9E05B894FB / Bangel / language/dotnet/Bangel.Admission/AdmissionDecimal.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: private AdmissionDecimal(BigInteger coefficient, long exponent); internal static AdmissionDecimal Zero { get; } = new(BigInteger.Zero, 0);; internal static AdmissionDecimal Parse(string validCanonicalText); public static AdmissionDecimal operator -(AdmissionDecimal value) => Round(-value.coefficient, value.exponent);; public static AdmissionDecimal operator +(AdmissionDecimal left, AdmissionDecimal right) => Add(left, right, false);

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 189-line source is preserved with SHA-256 0de3f188de1faa40363c9fe655aafd7ad76417f433da712ce2f9a9bfee6436b6. 13 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Admission/AdmissionDecimal.cs

TR-MOD-BANGEL-1A6FC6F2E7 / Bangel / language/dotnet/Bangel.Admission/ContractVerifier.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: internal sealed class ContractVerifier(JsonObject root, CancellationToken cancellationToken); private static readonly HashSet<string> ReferenceKinds = new("let derive var measure evidence parameter capture loop pattern refinement function intrinsic record enum_variant type".Split(' '), StringComparer.Ordinal);; private readonly Dictionary<string, JsonObject> definitions = new(StringComparer.Ordinal);; private readonly Dictionary<string, HashSet<string>> units = new(StringComparer.Ordinal);; private readonly Dictionary<JsonNode, (HashSet<string> References, HashSet<string> Conversions)> ... [continued in source]

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 282-line source is preserved with SHA-256 ca08f0443270c78a0f9ce5a0349ef08d29574f17606ec0345a4d98318d91586a. 17 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Admission/ContractVerifier.cs

TR-MOD-BANGEL-E47F884546 / Bangel / language/dotnet/Bangel.Admission/Contracts.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: public sealed record AdmissionSpan(int Line, int Column = 1, int? EndColumn = null); public JsonElement ToJson() => JsonSerializer.SerializeToElement(new { line = Line, column = Column, end_column = EndColumn });; public AdmissionException(string code, string message, AdmissionSpan? span = null, JsonElement? details = null); internal AdmittedIr(string irjson, string programRoot, string program); internal static void Require(bool condition, string code, string message)

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 95-line source is preserved with SHA-256 19e6cbcb69034bb54ea7d0ba542ca5ba5fa1a6bd68637e0b65da9e5b6bd74839. 28 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Admission/Contracts.cs

TR-MOD-BANGEL-5EDD494169 / Bangel / language/dotnet/Bangel.Admission/CrossFields.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: internal sealed partial class CrossFields(JsonObject root, CancellationToken cancellationToken); private readonly Dictionary<string, JsonObject> modules = new(StringComparer.Ordinal);; private readonly Dictionary<string, JsonObject> definitions = new(StringComparer.Ordinal);; private readonly Dictionary<string, JsonObject> functions = new(StringComparer.Ordinal);; private readonly Dictionary<string, Dictionary<string, Symbol>> exports = new(StringComparer.Ordinal);

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 407-line source is preserved with SHA-256 51d35223fb58e17aff263411030e61d62d9d2c0db5d2464b30dd3a47e10a66c8. 31 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Admission/CrossFields.cs

TR-MOD-BANGEL-70C52632D4 / Bangel / language/dotnet/Bangel.Admission/IrAdmission.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: public static AdmittedIr Verify(string irJson, CancellationToken cancellationToken = default); private static JsonObject ReadCanonical(string source, CancellationToken cancellationToken); private static void VerifyEnvelopedIdentity(JsonObject root)

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 140-line source is preserved with SHA-256 f46dbd5ebd1ddad901515677ff3535de9dc2362b9889e1a5d763dc57b1954d01. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Admission/IrAdmission.cs

TR-MOD-BANGEL-4B8EFFE8B5 / Bangel / language/dotnet/Bangel.Admission/Registry.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: private static readonly JsonObject Document = Load();; private static readonly IReadOnlyDictionary<string, JsonObject> Instructions = Objects(Document["instruction_entries"]).ToDictionary(entry => S(entry["kind"]), StringComparer.Ordinal);; private static readonly IReadOnlyDictionary<string, JsonObject> Values = Objects(Document["value_entries"]).ToDictionary(entry => S(entry["kind"]), StringComparer.Ordinal);; private static JsonObject Load(); internal static void Instruction(JsonObject instruction, bool strict)

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 187-line source is preserved with SHA-256 3f1ede2a4be854838cfe7f9875e003098849ec03ca06b71c2a3d1817018651df. 12 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Admission/Registry.cs

TR-MOD-BANGEL-DCDC1D07D0 / Bangel / language/dotnet/Bangel.Admission/TypeVerifier.Numeric.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: private static readonly Regex NumberPattern = new(@"\A-?(?:0|[1-9][0-9]*)?(?:\.[0-9]+)?(?:E[+-][1-9][0-9]*)?\z", RegexOptions.NonBacktracking); private readonly record struct SourceNumber(bool Negative, bool Zero); private SourceNumber Numeric(JsonNode? node)

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 66-line source is preserved with SHA-256 f5aede2c16b281391546feb2b150e55045d49decc882472fc153071fec935e5f. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Admission/TypeVerifier.Numeric.cs

TR-MOD-BANGEL-184FE82900 / Bangel / language/dotnet/Bangel.Admission/TypeVerifier.Operations.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: private static void Comparison(JsonNode left, JsonNode right, string op); private static JsonNode BinaryType(string op, JsonNode left, JsonNode right, IReadOnlyList<JsonObject>? operands = null); private static JsonNode IntrinsicType(string target, IReadOnlyList<JsonObject> arguments)

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 207-line source is preserved with SHA-256 712661627635a7ce1c9943772d6f0cbe12c93bb57675f38202190fdd50824ed6. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Admission/TypeVerifier.Operations.cs

TR-MOD-BANGEL-E5EBA825E7 / Bangel / language/dotnet/Bangel.Admission/TypeVerifier.Units.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: private static readonly Regex TermPattern = new(@"\A(1|[A-Za-z]+)(?:\^(-?[1-9][0-9]*)?)?\z", RegexOptions.NonBacktracking);; private static readonly Regex FixedScalePattern = new(@"\A(?:10*|0\.\d*)\z", RegexOptions.NonBacktracking);; private readonly record struct Signature(BigInteger Mass, BigInteger Length, BigInteger Time,; internal static Signature Combine(Signature left, Signature right, bool divide) => new(; internal Signature Multiply(BigInteger n) => new(Mass * n, Length * n, Time * n, Current * n, Temperature * n, Power * n);

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 160-line source is preserved with SHA-256 96f103a8574a21d272146003a60bd468609cf763e19674ff544c564b72998a65. 13 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Admission/TypeVerifier.Units.cs

TR-MOD-BANGEL-BC28E08877 / Bangel / language/dotnet/Bangel.Admission/TypeVerifier.Values.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: internal void VerifyValueTypes(JsonObject expression); internal static UnicodeScalarComparer Instance { get; } = new();; public int Compare(string? left, string? right)

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 223-line source is preserved with SHA-256 ff8ead63cd540cad13f6cb30a87e2ef4471704ed619513948d76319041bf93cc. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Admission/TypeVerifier.Values.cs

TR-MOD-BANGEL-10BBAA7740 / Bangel / language/dotnet/Bangel.Admission/TypeVerifier.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: internal sealed partial class TypeVerifier(; private static readonly Regex NamePattern = new(@"\A[A-Za-z_][A-Za-z_0-9]*(?:\.[A-Za-z_][A-Za-z_0-9]*)*\z", RegexOptions.NonBacktracking);; private static readonly Regex IntegerPattern = new(@"\A-?(?:0|[1-9][0-9]*)\z", RegexOptions.NonBacktracking);; private static void Check(bool condition, string message, string code = "IR_TYPE"); private static JsonObject Object(JsonNode? node) => node as JsonObject

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 146-line source is preserved with SHA-256 b16e62e6a30f30ef97ca57432de4eb1112e84cfd108a8cde078bdbf33b68aeb. 24 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Admission/TypeVerifier.cs

TR-MOD-BANGEL-A9589D640E / Bangel / language/dotnet/Bangel.Compiler/ElsaCompiler.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: public CompilerException(string code, string message, SyntaxSpan? span = null, object? details = null) : base(message); internal ManagedProjectCompilation(Admittedlr compilation, string projectRoot, string entry, IEnumerable<string> modules); private static readonly JsonSerializerOptions Serialization = new() { MaxDepth = 1024 };; public static SemanticModel Check(string sourceName, string source, CancellationToken cancellationToken = default); public static ProjectSemanticModel CheckProject(IReadOnlyDictionary<string, string> sources, CancellationToken cancellationToken = default)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 204-line source is preserved with SHA-256 8f5ee14b7d80aec82ddd501d04ba985d9dadd53c417884b2ffbf804847655b6. 20 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Compiler/ElsaCompiler.cs

TR-MOD-BANGEL-B36F26105F / Bangel / language/dotnet/Bangel.Compiler/Lowering.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: internal sealed record LoweredExpression(string Kind, object? Value, LoweredExpression[] Operands,; internal Dictionary<string, object?> ToIr(); internal sealed record LoweredStatement(string Kind, string? Name, LoweredExpression? Expression,; internal sealed record LoweredSource(string Name, IReadOnlyList<string> Effects, LoweredStatement[] Statements,; private readonly Dictionary<ExpressionSyntax, SemanticType> expressionTypes = new(ReferenceEqualityComparer.Instance);

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 284-line source is preserved with SHA-256 f112dcc842985b9cffb958169144c81a5d8953bc4b8d26f23d1566c5a8b1e4c9. 27 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Compiler/Lowering.cs

TR-MOD-BANGEL-482C52E92C / Bangel / language/dotnet/Bangel.Numerics/BangelDecimal.cs

IF

This Numeric / typed values module is imported or its declared interface is invoked. Declared surface includes: public sealed class BangelNumericException(BangelNumericError error, string message); public static BangelDecimal Zero { get; } = new(BigInteger.Zero, 0);; public static BangelDecimal One { get; } = new(BigInteger.One, 0);; private BangelDecimal(BigInteger coefficient, int exponent, bool negativeZero = false); public static BangelDecimal Parse(string text) => ParseBounded(text, MaximumLiteralCharacters, MaximumLiteralExponent);

HOW

Use the exact numeric and dimensional rules of this module; keep typed unknown, signed values and source-specific bounds distinct. The complete terminology-edited 397-line source is preserved with SHA-256 300e160e880099f0f7067d201ee039a776a551c6c3097b6e33d7343df3549e41. 44 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Numerics/BangelDecimal.cs

TR-MOD-BANGEL-918A155C3B / Bangel / language/dotnet/Bangel.Runtime/Builtins.cs

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: private object? Aggregate(object?[] values, JsonNode type, bool mean = false); private object? Builtin(string target, object?[] values, JsonNode type); private object? LegacyBuiltin(string name, object?[] args); private static Quantity QuantityAggregate(Quantity[] values, bool mean)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 148-line source is preserved with SHA-256 8c19e0ddf9caaf0527329f03bcb0b6b7571298f6e9e1d8d5fb8633e898956797. 4 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Runtime/Builtins.cs

TR-MOD-BANGEL-57691984B4 / Bangel / language/dotnet/Bangel.Runtime/Contracts.cs

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: internal void Validate(); public RuntimeException(string code, string message, string? spanJson = null, string? detailsJson = null, Exception? innerException = null); public static string NormalizeJson(string json) => Text(JsonNode.Parse(json,; internal static readonly IComparer<string> KeyOrder = Comparer<string>.Create((a, b) =>; internal static string Digest(object? value) => Convert.ToHexStringLower(SHA256.HashData(Bytes(value))));

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 117-line source is preserved with SHA-256 f7b2dfda33b23e42a9b0432e6ebd3a898af4b2a85dce57536a547537b96129f0. 11 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Runtime/Contracts.cs

TR-MOD-BANGEL-FA76B31298 / Bangel / language/dotnet/Bangel.Runtime/Execution.cs

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: private void Block(JsonArray instructions, Scope scope, string? owner = null); internal string Execute(); private static void VerifyReceiptDimensions(object? value)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 148-line source is preserved with SHA-256 783bf15717185b9cd11e1c785862692f0466840cb0ecde2da7adb884e7965dc2. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Runtime/Execution.cs

TR-MOD-BANGEL-69CD886751 / Bangel / language/dotnet/Bangel.Runtime/JoannaRuntime.cs

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: public static string Execute(string admittedIr, RuntimeLimits? limits = null, CancellationToken cancellationToken = default); public static string ExecuteWithHostBindings(string admittedIr,; public static string ExecuteWithRealHostBindings(string admittedIr,; private static string ExecuteHostCore(string admittedIr,; private static string ExecuteCore(string admittedIr, IReadOnlyDictionary<string, Func<ReadOnlyList<object?>, object?>>? bindings,

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 410-line source is preserved with SHA-256 9a45b0daf0a61c25211d85f3d35cdcf6b17ee25f8d3188b9101c7af878b42f1e. 40 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Runtime/JoannaRuntime.cs

TR-MOD-BANGEL-61212BE10F / Bangel / language/dotnet/Bangel.Runtime/Values.cs

IF

This Numeric / typed values module is imported or its declared interface is invoked. Declared surface includes: internal sealed record Unknown(JsonNode ValueType, string Reason, string[] Provenance);; internal sealed record Failure(string Code, string Message);; internal sealed record Result(string Variant, object? Value);; internal sealed record Nominal(string Kind, string Identity, Dictionary<string, object?> Fields, string? Variant);; internal sealed class Scope(Scope? parent = null)

HOW

Use the exact numeric and dimensional rules of this module; keep typed unknown, signed values and source-specific bounds distinct. The complete terminology-edited 92-line source is preserved with SHA-256 9665810b1018cd0bbdf59a0f0c916e6c0b4ac62a914c0f0cf0045ffabba3299a. 21 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Runtime/Values.cs

TR-MOD-BANGEL-00FFAB8AAB / Bangel / language/dotnet/Bangel.Sdk/CSharpBackend.cs

IF

This API / SDK module is imported or its declared interface is invoked. Declared surface includes: public static string Generate(Compilation compilation)

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 17-line source is preserved with SHA-256 e8321d3448903a42630f7cc7d418466feebb1443a9566c303230510e4d51c486. 1 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Sdk/CSharpBackend.cs

TR-MOD-BANGEL-E24091E165 / Bangel / language/dotnet/Bangel.Sdk/Contracts.cs

IF

This API / SDK module is imported or its declared interface is invoked. Declared surface includes: public sealed record SourceText(string Name, string Text);; public sealed record SourceSpan(int Line, int Column, int? EndColumn);; public sealed record Diagnostic(string Code, string Message, SourceSpan? Span, JsonElement Details);; public sealed class BangelException(Diagnostic diagnostic) : Exception(diagnostic.Message); public sealed class ProtocolException(string message) : IOException(message);

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 131-line source is preserved with SHA-256 15c9593908fc71b176ac5ca76560090e3a91bb09a6acdbdaf907d82c02a178ea. 29 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Sdk/Contracts.cs

TR-MOD-BANGEL-0CD16E89F2 / Bangel / language/dotnet/Bangel.Sdk/IElsaCompiler.cs

IF

This API / SDK module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 9-line source is preserved with SHA-256 ceed333fdc0c3fe6101a8805cb9f0951b77eb4da036ea7f5fd57bc24b5ea2de5. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Sdk/IElsaCompiler.cs

TR-MOD-BANGEL-8FE042E8E4 / Bangel / language/dotnet/Bangel.Sdk/ManagedCompiler.cs

IF

This API / SDK module is imported or its declared interface is invoked. Declared surface includes: public sealed class ManagedCompiler(TimeSpan? timeout = null) : IElsaCompiler; private readonly TimeSpan timeout = timeout ?? TimeSpan.FromSeconds(15);; public Task<CheckResult> CheckAsync(SourceText source, CancellationToken cancellationToken = default); public Task<Compilation> CompileAsync(SourceText source, CancellationToken cancellationToken = default); public Task<ProjectBuild> BuildAsync(BangelProject project, CancellationToken cancellationToken = default)

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 75-line source is preserved with SHA-256 078095369b166e53588ed3a277e8bfb2837dc37a84e242f43a694e566b9e9f51. 8 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Sdk/ManagedCompiler.cs

TR-MOD-BANGEL-CC6CF6701D / Bangel / language/dotnet/Bangel.Sdk/ManagedSyntax.cs

IF

This API / SDK module is imported or its declared interface is invoked. Declared surface includes: public static SourceFile Parse(SourceText source, CancellationToken cancellationToken = default)

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 25-line source is preserved with SHA-256 ce528842f5e8c872d0bad59559eab6f04434c1efdf89ba18c8b9c761cd69ded2. 1 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Sdk/ManagedSyntax.cs

TR-MOD-BANGEL-12FA8BE5AC / Bangel / language/dotnet/Bangel.Sdk/ReferenceCompiler.cs

IF

This API / SDK module is imported or its declared interface is invoked. Declared surface includes: public sealed class ReferenceCompiler(string pythonExecutable = "python3", TimeSpan? timeout = null) : IElsaCompiler; private readonly TimeSpan timeout = timeout ?? TimeSpan.FromSeconds(15);; private static readonly JsonSerializerOptions JsonOptions = new() { MaxDepth = 128 };; private static readonly JsonDocumentOptions DocumentOptions = new() { MaxDepth = 128 };; public async Task<CheckResult> CheckAsync(SourceText source, CancellationToken cancellationToken = default)

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 234-line source is preserved with SHA-256 18a7e6552965a7740aec0335c5bd5546ba67902c1b1d9e5a45a8c3b2b1dc843c. 21 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Sdk/ReferenceCompiler.cs

TR-MOD-BANGEL-23A1EED3AA / Bangel / language/dotnet/Bangel.Semantics/Analyzer.Binding.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private (string Kind, string Target) ResolveCallablePath(IReadOnlyList<string> path, Scope current, SyntaxSpan span); private SemanticType? ResolveSymbolicValuePath(IReadOnlyList<string> path, Scope current, SyntaxSpan span); private Symbol ResolveSymbolPath(IReadOnlyList<string> path, Scope current, SyntaxSpan span, string context); private Symbol ResolveValue(string name, Scope current, SyntaxSpan span); private Scope Define(Scope current, Symbol symbol)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 394-line source is preserved with SHA-256 377d0c78d11baaa44d80c6abd6977647ac9e88c985987c8908b985e44454e868. 24 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Semantics/Analyzer.Binding.cs

TR-MOD-BANGEL-C7BE4C6A02 / Bangel / language/dotnet/Bangel.Semantics/Analyzer.Data.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private TypedExpression InferIndex(IndexExpression expression, Scope scope, string? currentFunction); private TypedExpression InferField(FieldExpression expression, Scope scope, string? currentFunction); private TypedExpression InferResult(ResultConstructor expression, Scope scope, SemanticType? expected, string? currentFunction); private TypedExpression InferFailure(FailureConstructor expression, Scope scope, string? currentFunction); private void AnalyzeMatch(MatchStatement statement, SemanticType matchedType, Scope scope, string? currentFunction, bool inFunction)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 81-line source is preserved with SHA-256 48283c579bfd421f4a9d4df5b9827f2f91746c831f156ba9f7f7c7aaaa5640f2. 5 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Semantics/Analyzer.Data.cs

TR-MOD-BANGEL-A6E7EC451F / Bangel / language/dotnet/Bangel.Semantics/Analyzer.Expressions.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private static readonly object NoConstant = new();; private static TypedExpression Typed(ExpressionSyntax expression, SemanticType type, object? constant); private static object? Constant(TypedExpression expression) => expression.HasConstant ? expression.Constant : NoConstant;; private TypedExpression Infer(ExpressionSyntax expression, Scope scope, SemanticType? expected = null, string? currentFunction = null); private TypedExpression InferVector(VectorLiteral expression, Scope scope, SemanticType? expected, string? currentFunction)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 219-line source is preserved with SHA-256 a1bcc1c0f14b0dbc068369b1548297e45b6a4c6d61dba59ad9908b8c7d222656. 12 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Semantics/Analyzer.Expressions.cs

TR-MOD-BANGEL-AD66FED003 / Bangel / language/dotnet/Bangel.Semantics/Analyzer.Intrinsics.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private TypedExpression InferCall(CallExpression expression, Scope scope, SemanticType? expected, string? currentFunction); private TypedExpression InferIntrinsic(string target, CallExpression expression, Scope scope, SemanticType? expected, string? currentFunction); private TypedExpression InferCoreIntrinsic(string name, CallExpression expression, Scope scope, string? currentFunction); private TypedExpression InferStandardIntrinsic(string target, CallExpression expression, IReadOnlyList<TypedExpression> arguments, SemanticType? expected); private TypedExpression InferVectorIntrinsic(string ... [continued in source]

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 171-line source is preserved with SHA-256 93691f666f9796ac37d89a6222240edc0bc91b2c90d9438a801124afef368c54. 7 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Semantics/Analyzer.Intrinsics.cs

TR-MOD-BANGEL-F7241E9297 / Bangel / language/dotnet/Bangel.Semantics/Analyzer.Numerics.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private static readonly Dictionary<string, ResolvedUnit> Units = new(StringComparer.Ordinal); private ResolvedUnit UnitFromSyntax(UnitExpression expression); private static ResolvedUnit CanonicalUnit(IReadOnlyList<BigInteger> dimension, BangelDecimal? scale = null); private static ResolvedUnit CombinedUnit(ResolvedUnit left, ResolvedUnit right, bool divide); private static bool IsNumericConstant(object? value) => value is BigInteger or BangelDecimal;

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 101-line source is preserved with SHA-256 8b9da93feff72e83594a16c7ad764783030b58898dffade40b7f67457a997f37. 12 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Semantics/Analyzer.Numerics.cs

TR-MOD-BANGEL-AC6329011A / Bangel / language/dotnet/Bangel.Semantics/Analyzer.Statements.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private Scope AnalyzeStatement(StatementSyntax statement, Scope scope, string? currentFunction, bool inFunction = false); private static bool NegativeNumericLiteral(ExpressionSyntax expression)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 98-line source is preserved with SHA-256 82168cc1de1d1e39a90069fe88e8108a60cfd6db76b359d1ff2eb2c8b29c87b1. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Semantics/Analyzer.Statements.cs

TR-MOD-BANGEL-B99443E4A3 / Bangel / language/dotnet/Bangel.Semantics/Analyzer.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private Scope scope = new();; private readonly Dictionary<string, RecordSpec> records = new(StringComparer.Ordinal);; private readonly Dictionary<string, EnumSpec> enums = new(StringComparer.Ordinal);; private readonly Dictionary<string, FunctionSpec> functions = new(StringComparer.Ordinal);; private readonly Dictionary<string, ModuleInterface> interfaces = new(StringComparer.Ordinal);

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 278-line source is preserved with SHA-256 e7f645b38ffddbaaf31ec209eba8a0e867af27726030213c06eee9800ebbf106. 34 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Semantics/Analyzer.cs

TR-MOD-BANGEL-B553916861 / Bangel / language/dotnet/Bangel.Semantics/BangelSemantics.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: public static SemanticModel Analyze(SourceFile source,; public static ProjectSemanticModel AnalyzeProject(IReadOnlyList<SourceFile> sources,; private static SemanticModel AnalyzeCore(SourceFile source,; private static int CompareModuleNames(IReadOnlyList<string> left, IReadOnlyList<string> right); private sealed class VisitFrame(string name)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 172-line source is preserved with SHA-256 faba2e276e715c402107836493fba760e3f6def9ed00387b6863ad2ed994d8ea. 5 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Semantics/BangelSemantics.cs

TR-MOD-BANGEL-5A78C18AD5 / Bangel / language/dotnet/Bangel.Semantics/Models.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: public ResolvedUnit(string text, IReadOnlyList<BigInteger> dimension, BangelDecimal scale); public JsonElement ToJson() => SemanticJson.Element(this);; public bool Equals(ResolvedUnit? other) => other is not null && Text == other.Text && public override bool Equals(object? obj) => obj is ResolvedUnit unit && Equals(unit);; public override int GetHashCode()

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 449-line source is preserved with SHA-256 f694efff44ae07b4553fb87786b59524f8d7e817ade644ca8d56a64c940f4f43. 56 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Semantics/Models.cs

TR-MOD-BANGEL-2378F60486 / Bangel / language/dotnet/Bangel.Semantics/SemanticException.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: public SemanticException(string code, string message, SyntaxSpan? span = null,; public JsonElement ToJson() => SemanticJson.Element(this);

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 21-line source is preserved with SHA-256 0c615b478b40d03d1bd96b0c36219432a5cf5326e411b84210a31515c6e5d772. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Semantics/SemanticException.cs

TR-MOD-BANGEL-361E158AEB / Bangel / language/dotnet/Bangel.Semantics/SemanticNumbers.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private readonly record struct Exact(BigInteger Coefficient, int Exponent, bool NegativeZero = false); internal static BangelDecimal Parse(string text); internal static BangelDecimal Round28(BangelDecimal value) ==>; internal static BangelDecimal Round34(BangelDecimal value) ==> value.Round();; internal static BangelDecimal Round34(string text)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 338-line source is preserved with SHA-256 4be7db7fbd240b4d3975a47e762857acdbb8562415e0c365a0d1124e69b94a8e. 31 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Semantics/SemanticNumbers.cs

TR-MOD-BANGEL-EAD30D9D01 / Bangel / language/dotnet/Bangel.Syntax/Ast.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: public UnitTerm(string symbol, BigInteger exponent, SyntaxSpan span); internal override void WriteFields(Utf8JsonWriter writer); public UnitExpression(IReadOnlyList<UnitTerm> terms, IReadOnlyList<string> operators, SyntaxSpan span); internal override void WriteFields(Utf8JsonWriter writer); public ScalarType(string name, SyntaxSpan span)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 1029-line source is preserved with SHA-256 0464d2fd4b0a8c9918fe576a577c7d0109d46b7c86163de3ca30ae11b3927c3b. 104 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Syntax/Ast.cs

TR-MOD-BANGEL-3320DDC3D7 / Bangel / language/dotnet/Bangel.Syntax/BangelSyntax.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: public static SourceFile Parse(string source, string? sourceName = null, CancellationToken cancellationToken = default); public static IReadOnlyList<SyntaxToken> Tokenize(string source, CancellationToken cancellationToken = default)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 34-line source is preserved with SHA-256 c7fbe0efcbb39493c3f1b1547c11619d76694abc9318774690e234f682abb8e6. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Syntax/BangelSyntax.cs

TR-MOD-BANGEL-CAD501F3A7 / Bangel / language/dotnet/Bangel.Syntax/Lexer.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private static readonly Regex Number = new(@"G(?:0|[1-9][0-9]*)?(?:\.[0-9]+(?:[eE][+-]?[0-9]+)?|[eE][+-]?[0-9]+)?", RegexOptions.CultureInvariant);; private static readonly UTF8Encoding StrictUtf8 = new(false, true);; internal static string Normalize(string source); internal static IReadOnlyList<SyntaxToken> Lex(string source, CancellationToken cancellationToken); private static bool IsIdentifierStart(char character) => char.IsAsciiLetter(character) || character == '_';

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 215-line source is preserved with SHA-256 14391c7b9a1cca0cded63158f0585820df6af2699909b9edfb7d59b238923a59. 13 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Syntax/Lexer.cs

TR-MOD-BANGEL-5E2539FFC1 / Bangel / language/dotnet/Bangel.Syntax/Parser.Expressions.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private ExpressionSyntax Expression(); private ExpressionSyntax OrExpression(); private ExpressionSyntax AndExpression(); private ExpressionSyntax EqualityExpression(); private ExpressionSyntax ComparisonExpression()

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 185-line source is preserved with SHA-256 eed503f9aa5c41ac72f6e5ed9da749295507836da6f4a00d4c57b37ed1f239e9. 15 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Syntax/Parser.Expressions.cs

TR-MOD-BANGEL-D2F2137621 / Bangel / language/dotnet/Bangel.Syntax/Parser.Types.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private TypeSyntax? OptionalTypeAnnotation() => Match("COLON") ? Type() : null;; private TypeSyntax TypeAnnotation(string requiredCode) { Expect("COLON", requiredCode); return Type(); }; private TypeSyntax Type(); private UnitExpression UnitExpression(); private UnitTerm UnitTerm()

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 90-line source is preserved with SHA-256 c1a2d6043f69896dbb79e0ad1a63135a8d6832fb64279840af28031fff2dfd9. 6 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Syntax/Parser.Types.cs

TR-MOD-BANGEL-29CAF0F01A / Bangel / language/dotnet/Bangel.Syntax/Parser.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: internal sealed partial class Parser(IReadOnlyList<SyntaxToken> tokens, string? sourceName, CancellationToken cancellationToken); private static readonly HashSet<string> Reserved = new(StringComparer.Ordinal); internal SourceFile Parse(); private SyntaxSpan ParseHeader(); private IReadOnlyList<string> Effects(bool module)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 300-line source is preserved with SHA-256 bf792015aaaaadb9a293f4fe913f8af90e720c07b7e4e6e5e6e30a885d307f2a. 39 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Syntax/Parser.cs

TR-MOD-BANGEL-E0E8EDCFE7 / Bangel / language/dotnet/Bangel.Syntax/SyntaxContracts.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: public sealed record SyntaxSpan(int Line, int Column = 1, int? EndColumn = null); public JsonElement ToJson() => SyntaxJson.Element(this);; public SyntaxException(string code, string message, SyntaxSpan? span = null) : base(message); public sealed record SyntaxToken(string Kind, string Text, SyntaxSpan Span, bool LeadingSpace = false); public JsonElement ToJson()

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 110-line source is preserved with SHA-256 6037cad94a429bdd31828b75bd725004884f960f690b9f68ed3e9c83a2801d2c. 11 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/dotnet/Bangel.Syntax/SyntaxContracts.cs

TR-MOD-BANGEL-86AA8059AD / Bangel / language/python/sdk/python/bangel_sdk.py

IF

This API / SDK module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 4-line source is preserved with SHA-256 d694a1dabc2e3a82cf669458b9007fb636286e44320bb13af50e4e74226bae93. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/sdk/python/bangel_sdk.py

TR-MOD-BANGEL-059BAD78FC / Bangel / language/python/src/bangel/__init__.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `__getattr__(name); __dir__()`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 25-line source is preserved with SHA-256 `fe580f664de82f3d866e03c1622378dab3dda28bf71554ba7b5dd47d9e5e5d21`. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/__init__.py

TR-MOD-BANGEL-F4BE3594DA / Bangel / language/python/src/bangel/__main__.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 4-line source is preserved with SHA-256 76fa916e93e0ae1a6c1bb51dcc0bcf289c014e9f760a47165f8a84401ccf41d7. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/__main__.py

TR-MOD-BANGEL-847FB8DCC3 / Bangel / language/python/src/bangel/api.py

IF

This API / SDK module is imported or its declared interface is invoked. Declared surface includes: fail(code, message); exact(value, keys, label); valid_id(value); make_request(operation, input=None, *, request_id='request-1', limits=None, compatibility=None); _safe_json(value: Any, code: str)

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 447-line source is preserved with SHA-256 358d35e8f4a1b401016cc91e7ba28f6de90d1668ee6924fef4f72b30658ea656. 29 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/api.py

TR-MOD-BANGEL-F1C364C420 / Bangel / language/python/src/bangel/ast.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: to_ir(self)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 57-line source is preserved with SHA-256 e2077ccbf68358df08581fa9acdac86a19777e37bd0416686fe6b33f12c03a44. 1 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/ast.py

TR-MOD-BANGEL-177A670880 / Bangel / language/python/src/bangel/canonical.py

IF

This Receipt / evidence module is imported or its declared interface is invoked. Declared surface includes: `_normalize(value: Any); canonical_bytes(value: Any); digest(value: Any)`

HOW

Preserve exact serialization, digest binding, linkage and inspection/replay behavior without promoting integrity metadata into authority. The complete terminology-edited 45-line source is preserved with SHA-256 `aaca8bfae08caaf2d4bb3eca220e00cc79bf9a9ccd7ac9f79b801f48b50c63a8`. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

`bangel:language/python/src/bangel/canonical.py`

TR-MOD-BANGEL-A5210671DC / Bangel / language/python/src/bangel/cli.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `_json(value: object); build_parser(); main(argv: Sequence[str] | None=None)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 175-line source is preserved with SHA-256 63289e51aaa5c5d731570e4c2554fe614bea777e4ffa41bf851213fa7e145726. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/cli.py

TR-MOD-BANGEL-5A17011B80 / Bangel / language/python/src/bangel/client.py

IF

This API / SDK module is imported or its declared interface is invoked. Declared surface includes: `__init__(self, argv: Sequence[str], *, timeout: float=15.0, max_frame_bytes: int=MAX_FRAME_BYTES); _fail(self, error: Exception); _read(self); _write(self); request(self, request: dict[str, Any], *, timeout: float | None=None)`

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 142-line source is preserved with SHA-256 2c12f9cc00ca76863fdf75a96b8cc247a85e90d7582568f9cb2610252d8e140e. 21 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/client.py

TR-MOD-BANGEL-8E33ED178E / Bangel / language/python/src/bangel/compiler.py

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: to_dict(self); to_bytes(self); from_bytes(cls, data: bytes); to_dict(self); to_dict(self)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 352-line source is preserved with SHA-256 cb37e327273ee7f4b36db1a884b0a0a987e96ff7366fd59a83fe034e889b71c8. 18 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/compiler.py

TR-MOD-BANGEL-A182F713E0 / Bangel / language/python/src/bangel/diagnostics.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: to_dict(self); __init__(self, code: str, message: str, span: SourceSpan | None=None, details: Mapping[str, object] | None=None); to_dict(self)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 44-line source is preserved with SHA-256 7ef0d23c2166d9cec359b478632060ef3aa687d0ee008d003414bc158573ed93. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/diagnostics.py

TR-MOD-BANGEL-587A79561B / Bangel / language/python/src/bangel/evaluator.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `__post_init__(self); consume(self); _truth(value: Any); _quantity(value: Any); _vector(value: Any, name: str)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 404-line source is preserved with SHA-256 `ea060ed710796064de23ae2be73919e89c2a2cf3567824dbb8b6ace23e7fa61b`. 11 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

`bangel:language/python/src/bangel/evaluator.py`

TR-MOD-BANGEL-B9B97556B8 / Bangel / language/python/src/bangel/expression.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `__init__(self, text: str, line: int); parse(self); _peek(self); _take(self); _expression(self, minimum: int)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 108-line source is preserved with SHA-256 7dd1db4946aa102cb947cce05586db009ad8075520f8781d76fb3afb9b79afe1. 6 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/expression.py

TR-MOD-BANGEL-D30C83D29D / Bangel / language/python/src/bangel/formatter.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `_shape(value)`; `_syntax_marks(tree, tokens: tuple[Token, ...])`; `_spacing(previous: Token, token: Token, unit_gaps, unary)`; `format_source(source: str)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 158-line source is preserved with SHA-256 9cd0fca967cff6133d8c4708c05f683f9fb6b55f0b46b4a8315620a5fb5a6361. 4 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/formatter.py

TR-MOD-BANGEL-A7FEDEE97F / Bangel / language/python/src/bangel/frontend/__init__.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 36-line source is preserved with SHA-256 8d2df6895ecc4204fc144e834008c4d29b59c2c2b624bc24fc626a586dc9375f. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/frontend/__init__.py

TR-MOD-BANGEL-FF02107D45 / Bangel / language/python/src/bangel/frontend/ast.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `_encode(value: Any); to_dict(self); text(self)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 469-line source is preserved with SHA-256 5f7accd99d007a6a67d2f3fcd5452a8825fc3effeef73ffd544cff996a083315. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/frontend/ast.py

TR-MOD-BANGEL-9864199BB8 / Bangel / language/python/src/bangel/frontend/lexer.py

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes:
_normalized_text(source: str); _without_comment(line: str); _string_token(line: str, start: int, line_number: int);
lex(source: str)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 272-line source is preserved with SHA-256
dce2b6380313631ac51fb7b66ba8b88bbb1f1297d23af94dcc27504ecccdad7d. 4 extracted
function/declaration entries are separately indexed, including exact Python bodies and guards where
available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module
inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host
behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R
compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/frontend/lexer.py

TR-MOD-BANGEL-06022C980A / Bangel / language/python/src/bangel/frontend/lower.py

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: typed_ast_mapping(); _span_key(span); _semantic_key(owner: tuple[str, ...], name: str); from_model(cls, model: SemanticModel); type_of(self, node: object)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 775-line source is preserved with SHA-256 5d6fc9811eecb0c556da868f94d2cd3e1e2471c396474c776c1a66b344df1b0a. 20 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/frontend/lower.py

TR-MOD-BANGEL-C7C2377EBD / Bangel / language/python/src/bangel/frontend/parser.py

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes:
__init__(self, tokens: tuple[Token, ...], source_name: str | None); parse(self); _parse_header(self); _effects(self, *, module: bool); _imports(self)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 1066-line source is preserved with SHA-256 7a12c8054b59162475eddf2ca827a7b7e36d5123cc8c0891c5ac78c7c5b56504. 59 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/frontend/parser.py

TR-MOD-BANGEL-C35042085E / Bangel / language/python/src/bangel/frontend/semantics.py

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: `_diag(code: str, message: str, span: SourceSpan | None, **details: object); to_dict(self); render(self); to_dict(self); to_dict(self)`

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 2895-line source is preserved with SHA-256 `f0587630482b135b9f9ce33c857f4571c8281936ddec79d5d63c05f4f5501ab3`. 106 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/frontend/semantics.py

TR-MOD-BANGEL-FEC81208B9 / Bangel / language/python/src/bangel/frontend/tokens.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: to_dict(self)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 44-line source is preserved with SHA-256 8424aef18c8a1bcb0d17fced8c386282ec05294cb1043b4b42dd8ea7890f7c27. 1 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/frontend/tokens.py

TR-MOD-BANGEL-0E7BC757FD / Bangel / language/python/src/bangel/gates.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: passkey_preflight_report(*, tests_passed: int, package_root: str | None=None)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 32-line source is preserved with SHA-256 374cfc4e3db7c43ce06e69a93697a8a711aee68d4f359e1929e2acd6c5522dea. 1 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/gates.py

TR-MOD-BANGEL-570D7338F6 / Bangel / language/python/src/bangel/geometry.py

IF

This Numeric / typed values module is imported or its declared interface is invoked. Declared surface includes: `__post_init__(self); to_dict(self); __post_init__(self); to_dict(self); __post_init__(self)`

HOW

Use the exact numeric and dimensional rules of this module; keep typed unknown, signed values and source-specific bounds distinct. The complete terminology-edited 71-line source is preserved with SHA-256 11c0fa2234c5bcc9ee6a49305b0602cd01648dcd0d80f98de2674ffe085a553a. 6 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/geometry.py

TR-MOD-BANGEL-D940E65582 / Bangel / language/python/src/bangel/gin.py

IF

This GIN module is imported or its declared interface is invoked. Declared surface includes: `__init__(self, code: str, message: str); _integer(value, name); read_request(path); unique(pairs); nonfinite(value)`

HOW

Preserve interval bounds, clock/evidence identity and typed temporal states; do not infer physical energy or authority from a temporal result. The complete terminology-edited 211-line source is preserved with SHA-256 40a493a4ee666f24c77bf541941b2d744d3a904073842ab0e451559f8c68b226. 8 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/gin.py

TR-MOD-BANGEL-FEB1B66C30 / Bangel / language/python/src/bangel/gin_clock.py

IF

This GIN module is imported or its declared interface is invoked. Declared surface includes:
transform_source(transform)

HOW

Preserve interval bounds, clock/evidence identity and typed temporal states; do not infer physical energy or authority from a temporal result. The complete terminology-edited 168-line source is preserved with SHA-256 57dbf450217c43554d1e2a7c3086572256163ca7fd5d109ffd0e468c43459e27. 1 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/gin_clock.py

TR-MOD-BANGEL-17DE9A28E1 / Bangel / language/python/src/bangel/gin_models.py

IF

This GIN module is imported or its declared interface is invoked. Declared surface includes: `_shape(value, required, optional=(), *, code='GIN_INPUT_SHAPE');` `_array(value, name);` `_text(value, *, identifier=False, nonempty=True, code='GIN_TEXT_INVALID');` `_instance(kind, fields);` `__init__(self)`

HOW

Preserve interval bounds, clock/evidence identity and typed temporal states; do not infer physical energy or authority from a temporal result. The complete terminology-edited 296-line source is preserved with SHA-256 7c6e780d8070f80c49da4ffb4679cb6c85b4d0c7c654bda9f22b27e82eb55d05. 17 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/gin_models.py

TR-MOD-BANGEL-AA5883C64A / Bangel / language/python/src/bangel/identity.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 73-line source is preserved with SHA-256 30c103beaecb6593738612cbb8d502ea1024e7cd070cb800887836ea0116fc0c. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/identity.py

TR-MOD-BANGEL-270D96A7CD / Bangel / language/python/src/bangel/inspector.py

IF

This Receipt / evidence module is imported or its declared interface is invoked. Declared surface includes: inspect_receipt(receipt: dict[str, Any]); query_receipt(receipt: dict[str, Any], path: str); compare_receipts(left: dict[str, Any], right: dict[str, Any]); replay_receipt(compilation: dict[str, Any], receipt: dict[str, Any])

HOW

Preserve exact serialization, digest binding, linkage and inspection/replay behavior without promoting integrity metadata into authority. The complete terminology-edited 75-line source is preserved with SHA-256 83327ff6da9f722454b6efb26343d0b2343ce25a4a29dcefeb9080ad08af5421. 4 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/inspector.py

TR-MOD-BANGEL-784843E7F3 / Bangel / language/python/src/bangel/ir.py

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes:
_verify_provenance(value: Any, *, span: Any, source_name: str); _verify_expression(expression: Any, *, strict: bool=False, source_name: str=""); _verify_instruction(instruction: Any, *, strict: bool, source_name: str);
verify_nested(value: Any); to_dict(self)

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 437-line source is preserved with SHA-256 fc4810a726cb40d7dcbb39e1e21b25947a386c15db8ec8c166604ab45b0e15e6. 12 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/ir.py

TR-MOD-BANGEL-8367890CEA / Bangel / language/python/src/bangel/ir_contract.py

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes:
fail(code: str, message: str); check(condition: bool, code: str, message: str); exact(value: Any, keys: set[str], code='IR_SCHEMA'); text(value: Any, pattern: str | None=None, *, nullable=False, code='IR_SCHEMA'); integer(value: Any, low=0, high=MAX_POSITION, code='IR_SCHEMA')

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 480-line source is preserved with SHA-256 3e2aa8ab4476678543aac22333e6910d71d26bcbbdf23db5fe96cfa2772be5f7. 24 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/ir_contract.py

TR-MOD-BANGEL-AA77B0CE70 / Bangel / language/python/src/bangel/ir_crossfields.py

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: `_require(condition: bool, message: str); _fits(actual: dict, expected: dict); _unique(items: list, label: str); _position(value); _source_order(items, label)`

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 598-line source is preserved with SHA-256 102f1a961b07bd1e939e431cdbdd521b47fb818d8afaa4bdb311840439df033e. 23 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/ir_crossfields.py

TR-MOD-BANGEL-64EDB64C3A / Bangel / language/python/src/bangel/ir_registry.py

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes:
to_dict(self); _failure(diagnostic: str, behavior: str); _instruction(kind: str, *, lanes: tuple[str, ...], operands: tuple[str, ...], result_type: str, strict_effects: tuple[tuple[str, ...], ...]=(('pure',)), details: tuple[tuple[str, ...], ...]=((,)), expression: str='required', name: str | dict[str, str]='required', strict_type: str='required', invariants: tuple[str, ...], failures: tuple[dict[str, str], ...], legacy: bool=False); _value(kind: str, *, lanes: tuple[str, ...], operands: tuple[str, ...], minimum: int, maximum: int | None, result_type: str, value_field: str, type_kinds: ...
[continued in source]

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 771-line source is preserved with SHA-256 b6820cfc7e8a852fbf55ec5d825ef8d8ca6d868a1ac0a2bb58b5e6737c66e1ec. 12 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/ir_registry.py

TR-MOD-BANGEL-1E910AAF93 / Bangel / language/python/src/bangel/ir_types.py

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: `_fail(message, code='IR_TYPE');` `_check(condition, message, code='IR_TYPE');` `_keys(value, required, optional=());` `unit_work_budget(limit=MAX_UNIT_TOTAL_WORK);` `_charge_unit_work(work)`

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 541-line source is preserved with SHA-256 120540f65e500825e97f0468f7d0605d702ebec6bf124ae08d35382ae98ac761. 28 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/ir_types.py

TR-MOD-BANGEL-28C5F372A0 / Bangel / language/python/src/bangel/legacy.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: parse_legacy_01(source: str)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 50-line source is preserved with SHA-256 3f93881bd05900a63b40eeb3757443217e7af9794e4c755ba5e3aa20000b5b5a. 1 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/legacy.py

TR-MOD-BANGEL-87A33E3912 / Bangel / language/python/src/bangel/lexer.py

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes:
lex_expression(text: str, line: int, start_column: int=1)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 45-line source is preserved with SHA-256 0a289c1fe38ed0d88fba53c6513b4d9c26994c1ba1ba22cb4d230e9a88f05120. 1 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/lexer.py

TR-MOD-BANGEL-83A76C6170 / Bangel / language/python/src/bangel/linter.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `_finding(code: str, message: str, span: SourceSpan | None, severity: str); lint_source(source_name: str, source: str)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 43-line source is preserved with SHA-256 0c5a6c34ce4c6b3f351c76c194c61b60d889d3d11578b175ac1f0b3e6b4e2119. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/linter.py

TR-MOD-BANGEL-61C1E32918 / Bangel / language/python/src/bangel/numerics.py

IF

This Numeric / typed values module is imported or its declared interface is invoked. Declared surface includes: `_series(values: Iterable[Quantity], name: str, minimum: int=1); vector_add(left: Iterable[Quantity], right: Iterable[Quantity]); finite_difference(xs: Iterable[Quantity], ys: Iterable[Quantity]); trapezoid(xs: Iterable[Quantity], ys: Iterable[Quantity]); covariance(left: Iterable[Quantity], right: Iterable[Quantity])`

HOW

Use the exact numeric and dimensional rules of this module; keep typed unknown, signed values and source-specific bounds distinct. The complete terminology-edited 64-line source is preserved with SHA-256 52bc4b602879fce4b4d00ddcdf6ef0cea456c2171d0a0fb1e178009df9430cd8. 5 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/numerics.py

TR-MOD-BANGEL-1CF454AD9C / Bangel / language/python/src/bangel/parser.py

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes:
_statement(line: SourceLine); parse_program(source: str)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 151-line source is preserved with SHA-256 fdb6c6e4f5b6fa707ad6a2a5dddc071756780e3e26d1103d09b189fb3818b2d3. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/parser.py

TR-MOD-BANGEL-4783113695 / Bangel / language/python/src/bangel/project.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: to_dict(self); verify(self); build(self, manifest: dict[str, Any], directory: Path); build_file(self, manifest_path: Path)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 87-line source is preserved with SHA-256 6bf86cbff03636f3bde4ed9a2e9d004a51c7befd669d30ef30e552220c33fc0a. 4 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/project.py

TR-MOD-BANGEL-4857E51294 / Bangel / language/python/src/bangel/receipt_contract.py

IF

This Receipt / evidence module is imported or its declared interface is invoked. Declared surface includes: `check(condition, message, code='RECEIPT_SHAPE');` `exact(value, keys, code='RECEIPT_SHAPE');` `text(value, pattern=None, *, empty=False, code='RECEIPT_SHAPE');` `integer(value, lower=0, upper=2 ** 63 - 1, code='RECEIPT_LIMITS');` `preflight(root)`

HOW

Preserve exact serialization, digest binding, linkage and inspection/replay behavior without promoting integrity metadata into authority. The complete terminology-edited 311-line source is preserved with SHA-256 3db7064ad4d9ef9d64ca2f1e079c82f7d371c6882cc54255eab6e88df1a71c84. 12 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/receipt_contract.py

TR-MOD-BANGEL-07550ED0EC / Bangel / language/python/src/bangel/receipts.py

IF

This Receipt / evidence module is imported or its declared interface is invoked. Declared surface includes: bind_receipt(basis: dict[str, Any]); verify_receipt(receipt: dict[str, Any]); receipt_from_bytes(data: bytes); object_pairs(pairs); forbidden_number(_)

HOW

Preserve exact serialization, digest binding, linkage and inspection/replay behavior without promoting integrity metadata into authority. The complete terminology-edited 71-line source is preserved with SHA-256 e9bd994e21831dc8290b3a0e62850986ba0b731d59b2fce25fbd3bb4cac3557f. 5 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/receipts.py

TR-MOD-BANGEL-ACD6A79DDE / Bangel / language/python/src/bangel/runtime.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: to_dict(self); verify(self); __init__(self, *, instruction_limit: int=4096, event_limit: int=8192, function_depth: int=64, evaluation_limit: int=16384, allocation_limit: int=1000000, output_limit: int=1048576, receipt_limit: int=4194304); execute(self, compilation: dict[str, Any], *, cancelled: Callable[[], bool] | None=None); encode_value(value: Any)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 297-line source is preserved with SHA-256 7bb8853d17fd02064ad52368b7a56fe7c2d8fffb816b37da5b26b696439ce6d7. 7 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/runtime.py

TR-MOD-BANGEL-5C93415BC3 / Bangel / language/python/src/bangel/scheduler.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `__init__(self, *, max_jobs: int=256, runtime: JoannaRuntime | None=None); run(self, jobs: Iterable[ScheduledJob], *, cancelled: Callable[[], bool] | None=None)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 156-line source is preserved with SHA-256 `d8f06e0e522f794ff021549a60a44f992f2c463d9b16330e719d7e2a15c264fd`. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/scheduler.py

TR-MOD-BANGEL-59B668D0CA / Bangel / language/python/src/bangel/semantics.py

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: `_names(expression: Expression); _calls(expression: Expression); analyze(program: Program)`

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 114-line source is preserved with SHA-256 `ffa40408f6da15e3021fa2270c1d992a41229799d54f2eb75b83c9702b7ae20a`. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

`bangel:language/python/src/bangel/semantics.py`

TR-MOD-BANGEL-A789D581A8 / Bangel / language/python/src/bangel/source.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `normalize_source(source: str); logical_lines(source: str)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 54-line source is preserved with SHA-256 `e8b3264372b13e3faa03faf9744cad70cfa1d4778836146b4e913f43a8cc7071`. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

`bangel:language/python/src/bangel/source.py`

TR-MOD-BANGEL-FC6A7C24C7 / Bangel / language/python/src/bangel/state.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: enter(self, stage: Stage, instruction: int | None, action: str); complete(self)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 59-line source is preserved with SHA-256 514a3d408c1e5ea4585a23ab3e8bb6f20dddb35f50cecf510b5408761154a76e. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/state.py

TR-MOD-BANGEL-8AB0498964 / Bangel / language/python/src/bangel/strict_runtime.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `get(self, name: str); set(self, name: str, value: Any); _underlying(value_type); _unknown(value_type, values); _decimal_text(value: Decimal)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 584-line source is preserved with SHA-256 `f791522e9f7a112d3dd1af08f3a522ea5958901771b114cdd27c30bd02ca3255`. 23 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

`bangel:language/python/src/bangel/strict_runtime.py`

TR-MOD-BANGEL-817CBE552A / Bangel / language/python/src/bangel/tokens.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 26-line source is preserved with SHA-256 de69106936311c4d0d828f3a6fa7e90220832bf49fd1ca4870dfc3a0d9d0a054. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/tokens.py

TR-MOD-BANGEL-00780CBDB9 / Bangel / language/python/src/bangel/topology.py

IF

This Numeric / typed values module is imported or its declared interface is invoked. Declared surface includes: canonical_stage(node: str); __post_init__(self); to_dict(self); add_node(self, node: str); add_edge(self, source: str, target: str, mode: str)

HOW

Use the exact numeric and dimensional rules of this module; keep typed unknown, signed values and source-specific bounds distinct. The complete terminology-edited 67-line source is preserved with SHA-256 79573438fa84903045c7d6256155af8d820f68b37ecae3ba3096f62af374bd5b. 6 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/topology.py

TR-MOD-BANGEL-A7CB4D2CB7 / Bangel / language/python/src/bangel/units.py

IF

This Numeric / typed values module is imported or its declared interface is invoked. Declared surface includes: require_unit(symbol: str); combine_dimensions(left: Dimension, right: Dimension, sign: int); dimension_text(dimension: Dimension)

HOW

Use the exact numeric and dimensional rules of this module; keep typed unknown, signed values and source-specific bounds distinct. The complete terminology-edited 59-line source is preserved with SHA-256 624b47631a708b7af681cbbb13e95bd45f81c1da224618bf5f3578c6f1ed7aa9. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/units.py

TR-MOD-BANGEL-F3BBF177F5 / Bangel / language/python/src/bangel/values.py

IF

This Numeric / typed values module is imported or its declared interface is invoked. Declared surface includes: `__post_init__(self); known(cls, magnitude: Decimal, unit_symbol: str='1'); unknown(cls, unit_symbol: str='1'); mass_delta(cls, magnitude: Decimal, unit_symbol: str='mg'); is_unknown(self)`

HOW

Use the exact numeric and dimensional rules of this module; keep typed unknown, signed values and source-specific bounds distinct. The complete terminology-edited 183-line source is preserved with SHA-256 b9169eb0a6ffc95881ff1803417cbd2a77fbc817549d02df10641670e91ee8e7. 14 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:language/python/src/bangel/values.py

TR-MOD-BANGEL-C2BEA4B440 / Bangel / papers/python/src/bangel_papers/__init__.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 5-line source is preserved with SHA-256 82908bdcecc09b9e837d7bec78f338b11dc942faa50db92cffabb1379cc88f82. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:papers/python/src/bangel_papers/__init__.py

TR-MOD-BANGEL-F6C068357C / Bangel / papers/python/src/bangel_papers/__main__.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 3-line source is preserved with SHA-256 935a1c1166b0c1ea35a82256345000bf2c73ded718d77773bc27a71ecce28f7d. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:papers/python/src/bangel_papers/__main__.py

TR-MOD-BANGEL-ACCB2FEA10 / Bangel / papers/python/src/bangel_papers/cli.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: main(argv=None)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 58-line source is preserved with SHA-256 aa975d206c1e0e786bf58d2dd158c85d8a25d99b684fb1c2acd12ae0c5e09892. 1 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

bangel:papers/python/src/bangel_papers/cli.py

TR-MOD-BANGEL-A07B2B9231 / Bangel / papers/python/src/bangel_papers/host.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `_color(color); _data(color, name); profiles(color, *, include_documentary=False); records(color); search(color, term, *, exact=False)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 134-line source is preserved with SHA-256 `a79e58e7631d77125c6b783f218b99d74a74c1ced9abf8881a978a9e94560ef5`. 13 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

`bangel:papers/python/src/bangel_papers/host.py`

TR-MOD-ASSOCIATED-2D34EB712B / Associated core / adapters/cpp/bangel.hpp

IF

This API / SDK module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 129-line source is preserved with SHA-256 2eb6361b9214b9be933988575e0dfc8cafbaaed2525969973af76dbb0e0bd42b. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:adapters/cpp/bangel.hpp

TR-MOD-ASSOCIATED-347C25035F / Associated core / adapters/r/jpservice/R/service.R

IF

This API / SDK module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 37-line source is preserved with SHA-256 eb6150f24a0f35736408913d39a09e98249992b42d34bf32dc5318c2b75fe5d8. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:adapters/r/jpservice/R/service.R

TR-MOD-ASSOCIATED-7CC1A116E2 / Associated core / adapters/r/jpservice/src/bangel.h

IF

This API / SDK module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 129-line source is preserved with SHA-256 6cc39d5845ce2406da9adb494154bf0a45e83e6c0c608778ac3e70cdf7a24189. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:adapters/r/jpservice/src/bangel.h

TR-MOD-ASSOCIATED-BB58843D4D / Associated core / adapters/r/jpservice/src/service.cpp

IF

This API / SDK module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 41-line source is preserved with SHA-256 8df71952cbbf3b21840452c9112a00e9241706708f4839d280069ca0fde9d813. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:adapters/r/jpservice/src/service.cpp

TR-MOD-ASSOCIATED-B0F7439D7A / Associated core / adapters/rust/src/lib.rs

IF

This API / SDK module is imported or its declared interface is invoked. Declared surface includes: impl fmt::Display for ProtocolError {fn fmt(&self,f:&mut fmt::Formatter<'_>)->fmt::Result {write!(f,"{}",self.0)}}; impl From<std::io::Error> for ProtocolError {fn from(e:std::io::Error)->Self {Self(e.to_string())}}; fn ensure(b:bool,msg:&str)->Result<()> {if b {Ok(())}else{Err(ProtocolError(msg.into()))}}; pub fn object()->Self {Self::Object(BTreeMap::new())}; pub fn get(&self,k:&str)->Result<&Self> {match self {Self::Object(m)=>m.get(k).ok_or_else(||ProtocolError(format!("missing field {k}"))),_=>Err(ProtocolError("expected object".into()))}}

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 85-line source is preserved with SHA-256 e8ea0c8a47a570b96988027b829f4a42e06e3e640ac178f3effcb7320bab316f. 33 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:adapters/rust/src/lib.rs

TR-MOD-ASSOCIATED-F259947A1F / Associated core / adapters/rust/src/main.rs

IF

This API / SDK module is imported or its declared interface is invoked. Declared surface includes: `fn main(){if let Err(e)=run(){eprintln!("{e}");std::process::exit(1);}}; fn run()->Result<(),Box<dyn std::error::Error>>{let argv:Vec<String>=std::env::args().skip(1).collect();for line in io::stdin().lock().lines(){let text=line;if argv.iter().any(|s|s=="--parse"){println!("{}",bangel_api::parse(text.as_bytes()).is_ok());continue;}let request=bangel_api::parse(text.as_bytes());if argv.first().is_some_and(|s|s=="--validate"){let ... [continued in source]`

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 3-line source is preserved with SHA-256 0bd801b07d7ad59a2a3902668a68f2ca610f1c6288f65e905267cd1475215756. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:adapters/rust/src/main.rs

TR-MOD-ASSOCIATED-B302368041 / Associated core / dotnet/Bangel.Admission/AdmissionDecimal.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: private AdmissionDecimal(BigInteger coefficient, long exponent); internal static AdmissionDecimal Zero { get; } = new(BigInteger.Zero, 0);; internal static AdmissionDecimal Parse(string validCanonicalText); public static AdmissionDecimal operator -(AdmissionDecimal value) => Round(-value.coefficient, value.exponent);; public static AdmissionDecimal operator +(AdmissionDecimal left, AdmissionDecimal right) => Add(left, right, false);

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 189-line source is preserved with SHA-256 0de3f188de1faa40363c9fe655aafd7ad76417f433da712ce2f9a9bfee6436b6. 13 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Admission/AdmissionDecimal.cs

TR-MOD-ASSOCIATED-5D051F009A / Associated core / dotnet/Bangel.Admission/ContractVerifier.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: internal sealed class ContractVerifier(JsonObject root, CancellationToken cancellationToken); private static readonly HashSet<string> ReferenceKinds = new("let derive var measure evidence parameter capture loop pattern refinement function intrinsic record enum_variant type".Split(' '), StringComparer.Ordinal);; private readonly Dictionary<string, JsonObject> definitions = new(StringComparer.Ordinal);; private readonly Dictionary<string, HashSet<string>> units = new(StringComparer.Ordinal);; private readonly Dictionary<JsonNode, (HashSet<string> References, HashSet<string> Conversions)> ... [continued in source]

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 282-line source is preserved with SHA-256 ca08f0443270c78a0f9ce5a0349ef08d29574f17606ec0345a4d98318d91586a. 17 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Admission/ContractVerifier.cs

TR-MOD-ASSOCIATED-9C61773248 / Associated core / dotnet/Bangel.Admission/Contracts.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: public sealed record AdmissionSpan(int Line, int Column = 1, int? EndColumn = null); public JsonElement ToJson() => JsonSerializer.SerializeToElement(new { line = Line, column = Column, end_column = EndColumn });; public AdmissionException(string code, string message, AdmissionSpan? span = null, JsonElement? details = null); internal AdmittedIr(string irjson, string programRoot, string program); internal static void Require(bool condition, string code, string message)

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 95-line source is preserved with SHA-256 19e6cbcb69034bb54ea7d0ba542ca5ba5fa1a6bd68637e0b65da9e5b6bd74839. 28 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Admission/Contracts.cs

TR-MOD-ASSOCIATED-4AFB895BDC / Associated core / dotnet/Bangel.Admission/CrossFields.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: internal sealed partial class CrossFields(JsonObject root, CancellationToken cancellationToken); private readonly Dictionary<string, JsonObject> modules = new(StringComparer.Ordinal);; private readonly Dictionary<string, JsonObject> definitions = new(StringComparer.Ordinal);; private readonly Dictionary<string, JsonObject> functions = new(StringComparer.Ordinal);; private readonly Dictionary<string, Dictionary<string, Symbol>> exports = new(StringComparer.Ordinal);

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 407-line source is preserved with SHA-256 51d35223fb58e17aff263411030e61d62d9d2c0db5d2464b30dd3a47e10a66c8. 31 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Admission/CrossFields.cs

TR-MOD-ASSOCIATED-F30FD18428 / Associated core / dotnet/Bangel.Admission/IrAdmission.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: public static AdmittedIr Verify(string irJson, CancellationToken cancellationToken = default); private static JsonObject ReadCanonical(string source, CancellationToken cancellationToken); private static void VerifyEnvelopeIdentity(JsonObject root)

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 140-line source is preserved with SHA-256 e9711077b39ffa8e531430c6d83dbcd3bf0463d4f7ab824a878692254ce9fbaf. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Admission/IrAdmission.cs

TR-MOD-ASSOCIATED-80112CD1A0 / Associated core / dotnet/Bangel.Admission/Registry.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: private static readonly JsonObject Document = Load();; private static readonly IReadOnlyDictionary<string, JsonObject> Instructions = Objects(Document["instruction_entries"]).ToDictionary(entry => S(entry["kind"]), StringComparer.Ordinal);; private static readonly IReadOnlyDictionary<string, JsonObject> Values = Objects(Document["value_entries"]).ToDictionary(entry => S(entry["kind"]), StringComparer.Ordinal);; private static JsonObject Load(); internal static void Instruction(JsonObject instruction, bool strict)

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 187-line source is preserved with SHA-256 e6c1523a8c9f3fdf0f0c0e8adfbbc92a11883269c8ab2b1344a77fa7086a5a2c. 12 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Admission/Registry.cs

TR-MOD-ASSOCIATED-D4CEA99EFD / Associated core / dotnet/Bangel.Admission/TypeVerifier.Numeric.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: private static readonly Regex NumberPattern = new(@"\A-?(?:0|[1-9][0-9]*)?(?:\.[0-9]+)?(?:E[+-][1-9][0-9]*)?\z", RegexOptions.NonBacktracking); private readonly record struct SourceNumber(bool Negative, bool Zero); private SourceNumber Numeric(JsonNode? node)

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 66-line source is preserved with SHA-256 f5aede2c16b281391546feb2b150e55045d49decc882472fc153071fec935e5f. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Admission/TypeVerifier.Numeric.cs

TR-MOD-ASSOCIATED-03775A629E / Associated core / dotnet/Bangel.Admission/TypeVerifier.Operations.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: private static void Comparison(JsonNode left, JsonNode right, string op); private static JsonNode BinaryType(string op, JsonNode left, JsonNode right, IReadOnlyList<JsonObject>? operands = null); private static JsonNode IntrinsicType(string target, IReadOnlyList<JsonObject> arguments)

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 207-line source is preserved with SHA-256 712661627635a7ce1c9943772d6f0cbe12c93bb57675f38202190fdd50824ed6. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Admission/TypeVerifier.Operations.cs

TR-MOD-ASSOCIATED-100C1211F0 / Associated core / dotnet/Bangel.Admission/TypeVerifier.Units.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: private static readonly Regex TermPattern = new(@"\A(1|[A-Za-z]+)(?:\^(-?[1-9][0-9]*)?)?z", RegexOptions.NonBacktracking);; private static readonly Regex FixedScalePattern = new(@"\A(?:10*|0\.\d*)z", RegexOptions.NonBacktracking);; private readonly record struct Signature(BigInteger Mass, BigInteger Length, BigInteger Time,; internal static Signature Combine(Signature left, Signature right, bool divide) => new(; internal Signature Multiply(BigInteger n) => new(Mass * n, Length * n, Time * n, Current * n, Temperature * n, Power * n);

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 160-line source is preserved with SHA-256 96f103a8574a21d272146003a60bd468609cf763e19674ff544c564b72998a65. 13 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Admission/TypeVerifier.Units.cs

TR-MOD-ASSOCIATED-F9FADBA448 / Associated core / dotnet/Bangel.Admission/TypeVerifier.Values.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: internal void VerifyValueTypes(JsonObject expression); internal static UnicodeScalarComparer Instance { get; } = new();; public int Compare(string? left, string? right)

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 223-line source is preserved with SHA-256 ff8ead63cd540cad13f6cb30a87e2ef4471704ed619513948d76319041bf93cc. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Admission/TypeVerifier.Values.cs

TR-MOD-ASSOCIATED-75D2CFA3B1 / Associated core / dotnet/Bangel.Admission/TypeVerifier.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: internal sealed partial class TypeVerifier(; private static readonly Regex NamePattern = new(@"\A[A-Za-z_][A-Za-z_0-9]*(?:\.[A-Za-z_][A-Za-z_0-9]*)*\z", RegexOptions.NonBacktracking);; private static readonly Regex IntegerPattern = new(@"\A-?(?:0|[1-9][0-9]*)\z", RegexOptions.NonBacktracking);; private static void Check(bool condition, string message, string code = "IR_TYPE"); private static JsonObject Object(JsonNode? node) => node as JsonObject

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 146-line source is preserved with SHA-256 b16e62e6a30f30ef97ca57432de4eb1112e84cfd108a8cde078bdbf33b68aeb. 24 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Admission/TypeVerifier.cs

TR-MOD-ASSOCIATED-3EBBB55E06 / Associated core / dotnet/Bangel.Cli/Program.cs

IF

This Runtime / supporting core module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 125-line source is preserved with SHA-256 8bd02b2cf8396339f19c5f6f79f9924051db90e3b2c904c22a08492db6e391f4. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Cli/Program.cs

TR-MOD-ASSOCIATED-E55F2B6EEF / Associated core / dotnet/Bangel.Compiler/BangelCompiler.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: public CompilerException(string code, string message, SyntaxSpan? span = null, object? details = null) : base(message); internal ManagedProjectCompilation(Admittedlr compilation, string projectRoot, string entry, IEnumerable<string> modules); private static readonly JsonSerializerOptions Serialization = new() { MaxDepth = 1024 };; public static SemanticModel Check(string sourceName, string source, CancellationToken cancellationToken = default); public static ProjectSemanticModel CheckProject(IReadOnlyDictionary<string, string> sources, CancellationToken cancellationToken = default)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 204-line source is preserved with SHA-256 7d35981ec843ccc8ac764295f0f731bb47afa90bb63e831866cb7c7bf3de402e. 20 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Compiler/BangelCompiler.cs

TR-MOD-ASSOCIATED-BA6A90BAC6 / Associated core / dotnet/Bangel.Compiler/Lowering.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: internal sealed record LoweredExpression(string Kind, object? Value, LoweredExpression[] Operands,; internal Dictionary<string, object?> Tolr(); internal sealed record LoweredStatement(string Kind, string? Name, LoweredExpression? Expression,; internal sealed record LoweredSource(string Name, IReadOnlyList<string> Effects, LoweredStatement[] Statements,; private readonly Dictionary<ExpressionSyntax, SemanticType> expressionTypes = new(ReferenceEqualityComparer.Instance);

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 284-line source is preserved with SHA-256 f112dcc842985b9cffb958169144c81a5d8953bc4b8d26f23d1566c5a8b1e4c9. 27 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Compiler/Lowering.cs

TR-MOD-ASSOCIATED-C4E8434F6A / Associated core / dotnet/Bangel.Hosting.Contracts.cs

IF

This API / SDK module is imported or its declared interface is invoked. Declared surface includes: public sealed record HostParameter(string Name, HostPrimitive Type);; public HostFunction(string name, IEnumerable<HostParameter> parameters, HostPrimitive returnType, string implementationId); public HostFunction(string name, IEnumerable<HostParameter> parameters, HostPrimitive returnType, string implementationId, HostProfile profile); internal JsonObject Node() => new(); public HostManifest(IEnumerable<HostFunction> functions)

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 209-line source is preserved with SHA-256 cd1e7a7e00b99eb70cda56faf2a96c7be4bb1d1aaccb79c5fb8a0ef666af7600. 30 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Hosting.Contracts.cs

TR-MOD-ASSOCIATED-C3440A5577 / Associated core / dotnet/Bangel.Hosting/HostCompiler.cs

IF

This API / SDK module is imported or its declared interface is invoked. Declared surface includes: public HostCompiler(ReferenceCompiler referenceCompiler) : this((IBangelCompiler)referenceCompiler) { }; public HostCompiler(IBangelCompiler compiler) => this.compiler = compiler ?? throw new ArgumentNullException(nameof(compiler));; public Task<HostCompilation> CompileAsync(SourceText source, HostManifest manifest, CancellationToken cancellationToken = default) =>; public async Task<HostCompilation> BuildAsync(BangelProject project, HostManifest manifest, CancellationToken cancellationToken = default)

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 53-line source is preserved with SHA-256 51cd8d8859df03e6438cc5b00364258fcde19c0e694b2e7ce7ca1ccd2456b0b5. 4 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Hosting/HostCompiler.cs

TR-MOD-ASSOCIATED-031F2CAB36 / Associated core / dotnet/Bangel.Hosting/HostExecutor.cs

IF

This API / SDK module is imported or its declared interface is invoked. Declared surface includes: public static HostReceipt Run(HostCompilation compilation, IEnumerable<HostRegistration> registrations,; public static HostReceipt Replay(HostCompilation compilation, IEnumerable<HostRegistration> registrations, HostReceipt expected,; public static HostReceipt ReadReceipt(string json); private static JsonObject ReadEnvelope(string json); private static void CheckUnique(JsonElement element)

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 285-line source is preserved with SHA-256 3a40a42baf884f8d40bcd70ec491e9de26d4976debe5383cb9c9cc47d7efda9. 11 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Hosting/HostExecutor.cs

TR-MOD-ASSOCIATED-BB338BB536 / Associated core / dotnet/Bangel.Numerics/BangelDecimal.cs

IF

This Numeric / typed values module is imported or its declared interface is invoked. Declared surface includes: public sealed class BangelNumericException(BangelNumericError error, string message); public static BangelDecimal Zero { get; } = new(BigInteger.Zero, 0);; public static BangelDecimal One { get; } = new(BigInteger.One, 0);; private BangelDecimal(BigInteger coefficient, int exponent, bool negativeZero = false); public static BangelDecimal Parse(string text) => ParseBounded(text, MaximumLiteralCharacters, MaximumLiteralExponent);

HOW

Use the exact numeric and dimensional rules of this module; keep typed unknown, signed values and source-specific bounds distinct. The complete terminology-edited 397-line source is preserved with SHA-256 300e160e880099f0f7067d201ee039a776a551c6c3097b6e33d7343df3549e41. 44 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Numerics/BangelDecimal.cs

TR-MOD-ASSOCIATED-470CDB67D0 / Associated core / dotnet/Bangel.Runtime/Builtins.cs

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: private object? Aggregate(object?[] values, JsonNode type, bool mean = false); private object? Builtin(string target, object?[] values, JsonNode type); private object? LegacyBuiltin(string name, object?[] args); private static Quantity QuantityAggregate(Quantity[] values, bool mean)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 148-line source is preserved with SHA-256 8c19e0ddf9caaf0527329f03bcb0b6b7571298f6e9e1d8d5fb8633e898956797. 4 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Runtime/Builtins.cs

TR-MOD-ASSOCIATED-32C7F4E611 / Associated core / dotnet/Bangel.Runtime/Contracts.cs

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: internal void Validate(); public RuntimeException(string code, string message, string? spanJson = null, string? detailsJson = null, Exception? innerException = null); public static string NormalizeJson(string json) => Text(JsonNode.Parse(json,; internal static readonly IComparer<string> KeyOrder = Comparer<string>.Create((a, b) =>; internal static string Digest(object? value) => Convert.ToHexStringLower(SHA256.HashData(Bytes(value)));

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 117-line source is preserved with SHA-256 f7b2dfda33b23e42a9b0432e6ebd3a898af4b2a85dce57536a547537b96129f0. 11 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Runtime/Contracts.cs

TR-MOD-ASSOCIATED-0421D2D62A / Associated core / dotnet/Bangel.Runtime/BangelRuntime.cs

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: public static string Execute(string admittedlr, RuntimeLimits? limits = null, CancellationToken cancellationToken = default); public static string ExecuteWithHostBindings(string admittedlr,; public static string ExecuteWithRealHostBindings(string admittedlr,; private static string ExecuteHostCore(string admittedlr,; private static string ExecuteCore(string admittedlr, IReadOnlyDictionary<string, Func<IReadOnlyList<object?>, object?>>? bindings,

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 410-line source is preserved with SHA-256 4869d4e97e3553a1f8224757e0f0fa0bc8d8d883f39a82bcd29fa50eae1ec8cd. 40 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Runtime/BangelRuntime.cs

TR-MOD-ASSOCIATED-5261ECE5A2 / Associated core / dotnet/Bangel.Runtime/Execution.cs

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: private void Block(JsonArray instructions, Scope scope, string? owner = null); internal string Execute(); private static void VerifyReceiptDimensions(object? value)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 148-line source is preserved with SHA-256 c8dc6662f5f6e23f8bb9be32d1ce445dfd75b13ef820bff5841872108058765c. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Runtime/Execution.cs

TR-MOD-ASSOCIATED-7214E35236 / Associated core / dotnet/Bangel.Runtime/Values.cs

IF

This Numeric / typed values module is imported or its declared interface is invoked. Declared surface includes: internal sealed record Unknown(JsonNode ValueType, string Reason, string[] Provenance);; internal sealed record Failure(string Code, string Message);; internal sealed record Result(string Variant, object? Value);; internal sealed record Nominal(string Kind, string Identity, Dictionary<string, object?> Fields, string? Variant);; internal sealed class Scope(Scope? parent = null)

HOW

Use the exact numeric and dimensional rules of this module; keep typed unknown, signed values and source-specific bounds distinct. The complete terminology-edited 92-line source is preserved with SHA-256 9665810b1018cd0bbdf59a0f0c916e6c0b4ac62a914c0f0cf0045ffabba3299a. 21 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Runtime/Values.cs

TR-MOD-ASSOCIATED-780A9A45C7 / Associated core / dotnet/Bangel.Sdk/CSharpBackend.cs

IF

This API / SDK module is imported or its declared interface is invoked. Declared surface includes: public static string Generate(Compilation compilation)

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 17-line source is preserved with SHA-256 8432f0e00917ad035b86f914b29b7dd53e077f28680b6d3c286be6eb4a7d7929. 1 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Sdk/CSharpBackend.cs

TR-MOD-ASSOCIATED-1F4A70EA5D / Associated core / dotnet/Bangel.Sdk/Contracts.cs

IF

This API / SDK module is imported or its declared interface is invoked. Declared surface includes: public sealed record SourceText(string Name, string Text);; public sealed record SourceSpan(int Line, int Column, int? EndColumn);; public sealed record Diagnostic(string Code, string Message, SourceSpan? Span, JsonElement Details);; public sealed class BangelException(Diagnostic diagnostic) : Exception(diagnostic.Message); public sealed class ProtocolException(string message) : IOException(message);

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 131-line source is preserved with SHA-256 15c9593908fc71b176ac5ca76560090e3a91bb09a6acdbdaf907d82c02a178ea. 29 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Sdk/Contracts.cs

TR-MOD-ASSOCIATED-9DBB0B5A5F / Associated core / dotnet/Bangel.Sdk/IBangelCompiler.cs

IF

This API / SDK module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 9-line source is preserved with SHA-256 0bbf2b130611fef92164443ea637e9ea9cfe61a11bb3dd5e44477055eb43587d. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Sdk/IBangelCompiler.cs

TR-MOD-ASSOCIATED-4312E5FD37 / Associated core / dotnet/Bangel.Sdk/ManagedCompiler.cs

IF

This API / SDK module is imported or its declared interface is invoked. Declared surface includes: public sealed class ManagedCompiler(TimeSpan? timeout = null) : IBangelCompiler; private readonly TimeSpan timeout = timeout ?? TimeSpan.FromSeconds(15);; public Task<CheckResult> CheckAsync(SourceText source, CancellationToken cancellationToken = default); public Task<Compilation> CompileAsync(SourceText source, CancellationToken cancellationToken = default); public Task<ProjectBuild> BuildAsync(BangelProject project, CancellationToken cancellationToken = default)

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 75-line source is preserved with SHA-256 964044f202652a4aa5510d15009190ef9ddccd9ff125b4846ef7a058f1c67dc2. 8 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Sdk/ManagedCompiler.cs

TR-MOD-ASSOCIATED-971A60D116 / Associated core / dotnet/Bangel.Sdk/ManagedSyntax.cs

IF

This API / SDK module is imported or its declared interface is invoked. Declared surface includes: public static SourceFile Parse(SourceText source, CancellationToken cancellationToken = default)

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 25-line source is preserved with SHA-256 ce528842f5e8c872d0bad59559eab6f04434c1efdf89ba18c8b9c761cd69ded2. 1 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Sdk/ManagedSyntax.cs

TR-MOD-ASSOCIATED-16CF3AC7CC / Associated core / dotnet/Bangel.Sdk/ReferenceCompiler.cs

IF

This API / SDK module is imported or its declared interface is invoked. Declared surface includes: public sealed class ReferenceCompiler(string pythonExecutable = "python3", TimeSpan? timeout = null) : IBangelCompiler; private readonly TimeSpan timeout = timeout ?? TimeSpan.FromSeconds(15);; private static readonly JsonSerializerOptions JsonOptions = new() { MaxDepth = 128 };; private static readonly JsonDocumentOptions DocumentOptions = new() { MaxDepth = 128 };; public async Task<CheckResult> CheckAsync(SourceText source, CancellationToken cancellationToken = default)

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 234-line source is preserved with SHA-256 fdfca637d9fa0a36cada8361b67abd52efaf7f1dc70dc1c5baa68e54e390d27f. 21 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Sdk/ReferenceCompiler.cs

TR-MOD-ASSOCIATED-7462B22DF2 / Associated core / dotnet/Bangel.Semantics/Analyzer.Binding.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private (string Kind, string Target) ResolveCallablePath(IReadOnlyList<string> path, Scope current, SyntaxSpan span); private SemanticType? ResolveSymbolicValuePath(IReadOnlyList<string> path, Scope current, SyntaxSpan span); private Symbol ResolveSymbolPath(IReadOnlyList<string> path, Scope current, SyntaxSpan span, string context); private Symbol ResolveValue(string name, Scope current, SyntaxSpan span); private Scope Define(Scope current, Symbol symbol)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 394-line source is preserved with SHA-256 377d0c78d11baaa44d80c6abd6977647ac9e88c985987c8908b985e44454e868. 24 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Semantics/Analyzer.Binding.cs

TR-MOD-ASSOCIATED-BEC77123CE / Associated core / dotnet/Bangel.Semantics/Analyzer.Data.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private TypedExpression InferIndex(IndexExpression expression, Scope scope, string? currentFunction); private TypedExpression InferField(FieldExpression expression, Scope scope, string? currentFunction); private TypedExpression InferResult(ResultConstructor expression, Scope scope, SemanticType? expected, string? currentFunction); private TypedExpression InferFailure(FailureConstructor expression, Scope scope, string? currentFunction); private void AnalyzeMatch(MatchStatement statement, SemanticType matchedType, Scope scope, string? currentFunction, bool inFunction)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 81-line source is preserved with SHA-256 48283c579bfd421f4a9d4df5b9827f2f91746c831f156ba9f7f7c7aaaa5640f2. 5 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Semantics/Analyzer.Data.cs

TR-MOD-ASSOCIATED-27A792FEFC / Associated core / dotnet/Bangel.Semantics/Analyzer.Expressions.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private static readonly object NoConstant = new();; private static TypedExpression Typed(ExpressionSyntax expression, SemanticType type, object? constant); private static object? Constant(TypedExpression expression) => expression.HasConstant ? expression.Constant : NoConstant;; private TypedExpression Infer(ExpressionSyntax expression, Scope scope, SemanticType? expected = null, string? currentFunction = null); private TypedExpression InferVector(VectorLiteral expression, Scope scope, SemanticType? expected, string? currentFunction)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 219-line source is preserved with SHA-256 a1bcc1c0f14b0dbc068369b1548297e45b6a4c6d61dba59ad9908b8c7d222656. 12 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Semantics/Analyzer.Expressions.cs

TR-MOD-ASSOCIATED-3F9B7AB97E / Associated core / dotnet/Bangel.Semantics/Analyzer.Intrinsics.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private TypedExpression InferCall(CallExpression expression, Scope scope, SemanticType? expected, string? currentFunction); private TypedExpression InferIntrinsic(string target, CallExpression expression, Scope scope, SemanticType? expected, string? currentFunction); private TypedExpression InferCoreIntrinsic(string name, CallExpression expression, Scope scope, string? currentFunction); private TypedExpression InferStandardIntrinsic(string target, CallExpression expression, IReadOnlyList<TypedExpression> arguments, SemanticType? expected); private TypedExpression InferVectorIntrinsic(string ... [continued in source]

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 171-line source is preserved with SHA-256 93691f666f9796ac37d89a6222240edc0bc91b2c90d9438a801124afef368c54. 7 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Semantics/Analyzer.Intrinsics.cs

TR-MOD-ASSOCIATED-9A87D250FC / Associated core / dotnet/Bangel.Semantics/Analyzer.Numerics.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private static readonly Dictionary<string, ResolvedUnit> Units = new(StringComparer.Ordinal); private ResolvedUnit UnitFromSyntax(UnitExpression expression); private static ResolvedUnit CanonicalUnit(IReadOnlyList<BigInteger> dimension, BangelDecimal? scale = null); private static ResolvedUnit CombinedUnit(ResolvedUnit left, ResolvedUnit right, bool divide); private static bool IsNumericConstant(object? value) => value is BigInteger or BangelDecimal;

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 101-line source is preserved with SHA-256 8b9da93feff72e83594a16c7ad764783030b58898dffade40b7f67457a997f37. 12 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Semantics/Analyzer.Numerics.cs

TR-MOD-ASSOCIATED-E56C2B0040 / Associated core / dotnet/Bangel.Semantics/Analyzer.Statements.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private Scope AnalyzeStatement(StatementSyntax statement, Scope scope, string? currentFunction, bool inFunction = false); private static bool NegativeNumericLiteral(ExpressionSyntax expression)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 98-line source is preserved with SHA-256 82168cc1de1d1e39a90069fe88e8108a60cfd6db76b359d1ff2eb2c8b29c87b1. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Semantics/Analyzer.Statements.cs

TR-MOD-ASSOCIATED-E1BD047B38 / Associated core / dotnet/Bangel.Semantics/Analyzer.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private Scope scope = new();; private readonly Dictionary<string, RecordSpec> records = new(StringComparer.Ordinal);; private readonly Dictionary<string, EnumSpec> enums = new(StringComparer.Ordinal);; private readonly Dictionary<string, FunctionSpec> functions = new(StringComparer.Ordinal);; private readonly Dictionary<string, ModuleInterface> interfaces = new(StringComparer.Ordinal);

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 278-line source is preserved with SHA-256 e7f645b38ffddbaaf31ec209eba8a0e867af27726030213c06eee9800ebbf106. 34 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Semantics/Analyzer.cs

TR-MOD-ASSOCIATED-719797F21D / Associated core / dotnet/Bangel.Semantics/BangelSemantics.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: public static SemanticModel Analyze(SourceFile source,; public static ProjectSemanticModel AnalyzeProject(IReadOnlyList<SourceFile> sources,; private static SemanticModel AnalyzeCore(SourceFile source,; private static int CompareModuleNames(IReadOnlyList<string> left, IReadOnlyList<string> right); private sealed class VisitFrame(string name)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 172-line source is preserved with SHA-256 faba2e276e715c402107836493fba760e3f6def9ed00387b6863ad2ed994d8ea. 5 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Semantics/BangelSemantics.cs

TR-MOD-ASSOCIATED-41EB984BB6 / Associated core / dotnet/Bangel.Semantics/Models.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: public ResolvedUnit(string text, IReadOnlyList<BigInteger> dimension, BangelDecimal scale); public JsonElement ToJson() => SemanticJson.Element(this);; public bool Equals(ResolvedUnit? other) => other is not null && Text == other.Text &&; public override bool Equals(object? obj) => obj is ResolvedUnit unit && Equals(unit);; public override int GetHashCode()

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 449-line source is preserved with SHA-256 f694efff44ae07b4553fb87786b59524f8d7e817ade644ca8d56a64c940f4f43. 56 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Semantics/Models.cs

TR-MOD-ASSOCIATED-4497121293 / Associated core / dotnet/Bangel.Semantics/SemanticException.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: public SemanticException(string code, string message, SyntaxSpan? span = null,; public JsonElement ToJson() => SemanticJson.Element(this);

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 21-line source is preserved with SHA-256 0c615b478b40d03d1bd96b0c36219432a5cf5326e411b84210a31515c6e5d772. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Semantics/SemanticException.cs

TR-MOD-ASSOCIATED-6C1EB22938 / Associated core / dotnet/Bangel.Semantics/SemanticNumbers.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private readonly record struct Exact(BigInteger Coefficient, int Exponent, bool NegativeZero = false); internal static BangelDecimal Parse(string text); internal static BangelDecimal Round28(BangelDecimal value) ==>; internal static BangelDecimal Round34(BangelDecimal value) ==> value.Round();; internal static BangelDecimal Round34(string text)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 338-line source is preserved with SHA-256 4be7db7fbd240b4d3975a47e762857acdbb8562415e0c365a0d1124e69b94a8e. 31 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Semantics/SemanticNumbers.cs

TR-MOD-ASSOCIATED-97E53667D5 / Associated core / dotnet/Bangel.Syntax/Ast.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: public UnitTerm(string symbol, BigInteger exponent, SyntaxSpan span); internal override void WriteFields(Utf8JsonWriter writer); public UnitExpression(IReadOnlyList<UnitTerm> terms, IReadOnlyList<string> operators, SyntaxSpan span); internal override void WriteFields(Utf8JsonWriter writer); public ScalarType(string name, SyntaxSpan span)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 1029-line source is preserved with SHA-256 0464d2fd4b0a8c9918fe576a577c7d0109d46b7c86163de3ca30ae11b3927c3b. 104 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Syntax/Ast.cs

TR-MOD-ASSOCIATED-3FA64E353B / Associated core / dotnet/Bangel.Syntax/BangelSyntax.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: public static SourceFile Parse(string source, string? sourceName = null, CancellationToken cancellationToken = default); public static IReadOnlyList<SyntaxToken> Tokenize(string source, CancellationToken cancellationToken = default)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 34-line source is preserved with SHA-256 c7fbe0efcbb39493c3f1b1547c11619d76694abc9318774690e234f682abb8e6. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Syntax/BangelSyntax.cs

TR-MOD-ASSOCIATED-A6637A8BB1 / Associated core / dotnet/Bangel.Syntax/Lexer.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private static readonly Regex Number = new(@"G(?:0|[1-9][0-9]*)?(?:\.[0-9]+(?:[eE][+-]?[0-9]+)?|[eE][+-]?[0-9]+)?", RegexOptions.CultureInvariant);; private static readonly UTF8Encoding StrictUtf8 = new(false, true);; internal static string Normalize(string source); internal static IReadOnlyList<SyntaxToken> Lex(string source, CancellationToken cancellationToken); private static bool IsIdentifierStart(char character) => char.IsAsciiLetter(character) || character == '_';

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 215-line source is preserved with SHA-256 14391c7b9a1cca0cded63158f0585820df6af2699909b9edfb7d59b238923a59. 13 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Syntax/Lexer.cs

TR-MOD-ASSOCIATED-E80B5E734F / Associated core / dotnet/Bangel.Syntax/Parser.Expressions.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private ExpressionSyntax Expression(); private ExpressionSyntax OrExpression(); private ExpressionSyntax AndExpression(); private ExpressionSyntax EqualityExpression(); private ExpressionSyntax ComparisonExpression()

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 185-line source is preserved with SHA-256 eed503f9aa5c41ac72f6e5ed9da749295507836da6f4a00d4c57b37ed1f239e9. 15 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Syntax/Parser.Expressions.cs

TR-MOD-ASSOCIATED-D9A1EDC02A / Associated core / dotnet/Bangel.Syntax/Parser.Types.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: private TypeSyntax? OptionalTypeAnnotation() => Match("COLON") ? Type() : null;; private TypeSyntax TypeAnnotation(string requiredCode) { Expect("COLON", requiredCode); return Type(); }; private TypeSyntax Type(); private UnitExpression UnitExpression(); private UnitTerm UnitTerm()

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 90-line source is preserved with SHA-256 c1a2d6043f69896dbb79e0ad1a63135a8d6832fb64279840afb28031ffff2dfd9. 6 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Syntax/Parser.Types.cs

TR-MOD-ASSOCIATED-494433100D / Associated core / dotnet/Bangel.Syntax/Parser.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: internal sealed partial class Parser(IReadOnlyList<SyntaxToken> tokens, string? sourceName, CancellationToken cancellationToken); private static readonly HashSet<string> Reserved = new(StringComparer.Ordinal); internal SourceFile Parse(); private SyntaxSpan ParseHeader(); private IReadOnlyList<string> Effects(bool module)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 300-line source is preserved with SHA-256 bf792015aaaaadb9a293f4fe913f8af90e720c07b7e4e6e5e6e30a885d307f2a. 39 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Syntax/Parser.cs

TR-MOD-ASSOCIATED-0A82471C1E / Associated core / dotnet/Bangel.Syntax/SyntaxContracts.cs

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: public sealed record SyntaxSpan(int Line, int Column = 1, int? EndColumn = null); public JsonElement ToJson() => SyntaxJson.Element(this);; public SyntaxException(string code, string message, SyntaxSpan? span = null) : base(message); public sealed record SyntaxToken(string Kind, string Text, SyntaxSpan Span, bool LeadingSpace = false); public JsonElement ToJson()

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 110-line source is preserved with SHA-256 6037cad94a429bdd31828b75bd725004884f960f690b9f68ed3e9c83a2801d2c. 11 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Syntax/SyntaxContracts.cs

TR-MOD-ASSOCIATED-3D00207C65 / Associated core / dotnet/Bangel.Translation/CSharpTranslator.Collections.cs

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: private sealed record ArrayBinding(ITSymbol ElementType, string[] Elements);; private readonly Dictionary<ISymbol, ArrayBinding> arrays = new(SymbolEqualityComparer.Default);; private void ArrayDeclaration(LocalDeclarationStatementSyntax statement, bool checkedContext, int indent, int depth); private ArrayBinding? TryArray(IdentifierNameSyntax identifier) =>; private void RejectArrayWrite(AssignmentExpressionSyntax assignment)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 151-line source is preserved with SHA-256 bf0a7c9840390e34633ba15fbdd12a1fbee7aab9bf25028b9d7cf9ee3a732f52. 8 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Translation/CSharpTranslator.Collections.cs

TR-MOD-ASSOCIATED-F538E19789 / Associated core / dotnet/Bangel.Translation/CSharpTranslator.ControlFlow.cs

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: private sealed record FunctionBinding(LocalFunctionStatementSyntax Syntax, IMethodSymbol Symbol, string Name);; private readonly Dictionary<IMethodSymbol, FunctionBinding> functions = new(SymbolEqualityComparer.Default);; private readonly HashSet<ISymbol> activeIndices = new(SymbolEqualityComparer.Default);; public void Program(CompilationUnitSyntax root); private bool PrimitiveSyntax(TypeSyntax type) => type is PredefinedTypeSyntax predefined &&

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 232-line source is preserved with SHA-256 dbac1c4ea664ab219066e94134e56e1ef4bde808830015e95e1595671519f1a6. 14 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Translation/CSharpTranslator.ControlFlow.cs

TR-MOD-ASSOCIATED-754D8DAA59 / Associated core / dotnet/Bangel.Translation/CSharpTranslator.Data.cs

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: private sealed record DataField(ParameterSyntax Syntax, ITypeSymbol Type, IPropertySymbol Symbol, string Name);; private sealed record DataBinding(MemberDeclarationSyntax Syntax, INamedTypeSymbol Symbol, string Name, bool IsEnum); private readonly Dictionary<ITypeSymbol, DataBinding> dataTypes = new(SymbolEqualityComparer.Default);; private readonly Dictionary<ISymbol, (DataBinding Owner, string Name)> dataMembers = new(SymbolEqualityComparer.Default);; private void PrepareData(CompilationUnitSyntax root)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 206-line source is preserved with SHA-256 ed918aee9a327aea7b01085a78774d62568a47580e3de4f74d73c84d5964eb80. 14 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Translation/CSharpTranslator.Data.cs

TR-MOD-ASSOCIATED-58F636DA89 / Associated core / dotnet/Bangel.Translation/CSharpTranslator.NumericWidths.cs

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: private bool IsAdmittedInteger(SpecialType? type) => type == SpecialType.System_Int64 ||; private readonly HashSet<IMethodSymbol> int32HelperUsers = new(SymbolEqualityComparer.Default);; private string Int32Check(string expression); private void ValidateInt32CallDepth(); private void EmitInt32Helper()

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 69-line source is preserved with SHA-256 8cb0c5b3eb07939dbfe546fe8263d6f5fc04cb8d03464672067c8624678b7871. 6 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Translation/CSharpTranslator.NumericWidths.cs

TR-MOD-ASSOCIATED-0C6407F529 / Associated core / dotnet/Bangel.Translation/CSharpTranslator.cs

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: public static void Emit(string name, long value) => Write(name, value);; public static void Emit(string name, bool value) => Write(name, value);; public static void Emit(string name, string value) => Write(name, value);; private static readonly Lazy<MetadataReference[]> References = new(() =>); private static readonly HashSet<string> Reserved = new(StringComparer.Ordinal)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 388-line source is preserved with SHA-256 8555b40584fc10efa670ac8b77e9439ea193d16b09eb04baef2426c7939a6879. 25 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Translation/CSharpTranslator.cs

TR-MOD-ASSOCIATED-9F2253E1F6 / Associated core / dotnet/Bangel.Translation/TranslationException.cs

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: public TranslationException(string code, string message, int line = 1, int column = 1)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 17-line source is preserved with SHA-256 ccef8981145af60f5795aa15e2971bda5870b7f5ce13a8685a3c8bce6473cb3d. 1 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Translation/TranslationException.cs

TR-MOD-ASSOCIATED-EA57468C94 / Associated core / dotnet/Bangel.Translation/TranslationProfile.cs

IF

This Runtime / supporting core module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 10-line source is preserved with SHA-256 9c4cfe0333e802581134d9e296f10ee3eb72af9fa5c9a1de0cd66c906c981d2f. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:dotnet/Bangel.Translation/TranslationProfile.cs

TR-MOD-ASSOCIATED-57973024EF / Associated core / native/include/jp_native.h

IF

This Numeric / typed values module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the exact numeric and dimensional rules of this module; keep typed unknown, signed values and source-specific bounds distinct. The complete terminology-edited 29-line source is preserved with SHA-256 14c4f0d1d04c247e2cd53416b3c3df902efefc74fd56eba3ea8ac0910b679a68. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:native/include/jp_native.h

TR-MOD-ASSOCIATED-578197E5E3 / Associated core / native/include/jp_native.hpp

IF

This Numeric / typed values module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the exact numeric and dimensional rules of this module; keep typed unknown, signed values and source-specific bounds distinct. The complete terminology-edited 33-line source is preserved with SHA-256 4c9391ead36ae7947e4c9450b905a4d82dd35b6e6ad8ff497cdb0609483db396. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:native/include/jp_native.hpp

TR-MOD-ASSOCIATED-3E7237FECF / Associated core / native/r/jpdecimal/R/decimal.R

IF

This Numeric / typed values module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the exact numeric and dimensional rules of this module; keep typed unknown, signed values and source-specific bounds distinct. The complete terminology-edited 10-line source is preserved with SHA-256 6f93d8a7ba56a4a733ecc86c228ce247b1d93c289a27b64dbcdcdbe3bd94d775. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:native/r/jpdecimal/R/decimal.R

TR-MOD-ASSOCIATED-903B486D40 / Associated core / native/r/jpdecimal/src/decimal.cpp

IF

This Numeric / typed values module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the exact numeric and dimensional rules of this module; keep typed unknown, signed values and source-specific bounds distinct. The complete terminology-edited 24-line source is preserved with SHA-256 328dd340c793a5374b3300a491b0fab48a782f79eb3735049d3a3002f863a5e2. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:native/r/jpdecimal/src/decimal.cpp

TR-MOD-ASSOCIATED-74C65554B4 / Associated core / native/src/jp_native.cpp

IF

This Numeric / typed values module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the exact numeric and dimensional rules of this module; keep typed unknown, signed values and source-specific bounds distinct. The complete terminology-edited 77-line source is preserved with SHA-256 44fc225a0cfd01c0f3d742edd8d9f9dcf28d18acd79df84ef387b762f12db58e. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:native/src/jp_native.cpp

TR-MOD-ASSOCIATED-B657991E54 / Associated core / products/ego-rev/bangel/ego.bangel

IF

This MJ-EGO-REV module is imported or its declared interface is invoked. Declared surface includes: function missing() -> Value; function known(v: Value) -> Bool; function number(v: Value) -> Real; function base(decision: Text, reason: Text) -> Outcome; function at(values: Vector[Value], index: Int) -> Value

HOW

Apply the energy ledger or transition logic shown in this module, preserving missing values and offline effect boundaries. The complete terminology-edited 411-line source is preserved with SHA-256 2c5426aeb7d63ab852e0c9b56b97d462902086aba9b020eb99bd2c5775de400f. 15 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/ego-rev/bangel/ego.bangel

TR-MOD-ASSOCIATED-F094D4E8F0 / Associated core / products/ego-rev/dotnet/Ego.Cli/Engines.cs

IF

This MJ-EGO-REV module is imported or its declared interface is invoked. Declared surface includes: public static Outcome Native(string operation, JsonElement input) => operation switch; public static string Expression(string operation, JsonElement input); public static string Source(IReadOnlyList<(string Operation, JsonElement Input)> cases); public static (Outcome[] Results, string Source, string Ir, string Receipt) Bangel(); public static bool Equivalent(Outcome left, Outcome right)

HOW

Apply the energy ledger or transition logic shown in this module, preserving missing values and offline effect boundaries. The complete terminology-edited 112-line source is preserved with SHA-256 7b9168dd288aab46321eb1d3bb0cd2b7a368c23a2f0bfce86dea1f10f050a08. 5 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/ego-rev/dotnet/Ego.Cli/Engines.cs

TR-MOD-ASSOCIATED-C9DA065EE5 / Associated core / products/ego-rev/dotnet/Ego.Cli/Program.cs

IF

This MJ-EGO-REV module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Apply the energy ledger or transition logic shown in this module, preserving missing values and offline effect boundaries. The complete terminology-edited 73-line source is preserved with SHA-256 40ab2167d305136a4cf01fcb52ce255a23408fda5e39cda2d24dfa8075d9f4c6. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/ego-rev/dotnet/Ego.Cli/Program.cs

TR-MOD-ASSOCIATED-421EE1CE17 / Associated core / products/ego-rev/dotnet/Ego.Core/Model.cs

IF

This MJ-EGO-REV module is imported or its declared interface is invoked. Declared surface includes: public sealed record Outcome(string Decision, string Reason, decimal? ExternalJ = null,; public sealed record EnergyEntry(string Id, string Role, string SourceClass, decimal? Joules,; public sealed record EnergyInput(EnergyEntry[] Entries, decimal ToleranceJ, decimal MaxUncertaintyJ,; public sealed record BatteryInput(decimal? InitialJ, decimal? CapacityJ, decimal? GridJ,; public sealed record ThermalInput(decimal? InitialJ, decimal? CapacityJ, decimal? CapturedJ,

HOW

Apply the energy ledger or transition logic shown in this module, preserving missing values and offline effect boundaries. The complete terminology-edited 145-line source is preserved with SHA-256 a9bbf5a57224278a01787b5b70db5a691405f4b7203e9a046ad1f6bab1f63a23. 20 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/ego-rev/dotnet/Ego.Core/Model.cs

TR-MOD-ASSOCIATED-5DC2AD902B / Associated core / products/ego-rev/dotnet/Ego.Core/Receipts.cs

IF

This MJ-EGO-REV module is imported or its declared interface is invoked. Declared surface includes: public sealed record AuditRecord(long Sequence, string PreviousRoot, JsonElement Payload, string Root);; public static string Genesis => new('0',64);; public static AuditRecord[] Append(IReadOnlyList<AuditRecord> records, string expectedPriorRoot, JsonElement payload); public static bool Verify(IReadOnlyList<AuditRecord>? records, string expectedRoot)

HOW

Apply the energy ledger or transition logic shown in this module, preserving missing values and offline effect boundaries. The complete terminology-edited 61-line source is preserved with SHA-256 bf949cb51350d54039b5665222199633d8ee7d7aafcd91d09c167cb7d33b9bbb. 4 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/ego-rev/dotnet/Ego.Core/Receipts.cs

TR-MOD-ASSOCIATED-F15020706D / Associated core / products/ego-rev/dotnet/Ego.Core/Transitions.cs

IF

This MJ-EGO-REV module is imported or its declared interface is invoked. Declared surface includes: public static IReadOnlyList<string> Modes { get; } = Array.AsReadOnly(Edges.Keys.ToArray());; public static bool Allowed(string from, string to) => Edges.ContainsKey(from) && Edges.ContainsKey(to) &&; public static Outcome Evaluate(TransitionInput x)

HOW

Apply the energy ledger or transition logic shown in this module, preserving missing values and offline effect boundaries. The complete terminology-edited 60-line source is preserved with SHA-256 47446015bc2e3c4277ff5117972e48e7fb3ad5f3167d40fb15b4ff9d423b4507. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/ego-rev/dotnet/Ego.Core/Transitions.cs

TR-MOD-ASSOCIATED-DF0EAD70B5 / Associated core / products/water/bangel/hagar.bangel

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: function usable(probe: Probe, cfg: Config) -> Bool; function number_of(probe: Probe) -> Real; function median3(a: Real, b: Real, c: Real) -> Real; function clip(x: Real, lower: Real, upper: Real) -> Real; export function valid_config(cfg: Config) -> Bool

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 176-line source is preserved with SHA-256 684b1fdd4e2050b62eafa7c59b11c03aabca301d2246c4962e1c56b66434bc7b. 6 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/bangel/hagar.bangel

TR-MOD-ASSOCIATED-D6736DDDDC / Associated core / products/water/bangel/protection.bangel

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: export function evaluate(entropy: Real, authentication: Real, traffic: Real, risks_known: Bool, signals_known: Bool, integrity_failure: Bool, key_compromise: Bool, recent_scores: Vector[Real], gates: Gates) -> Decision

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 91-line source is preserved with SHA-256 f74c607d3ce684f6c9751af779eb5c4ee8e86c226686ea3c602cf12e584e5bd9. 1 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/bangel/protection.bangel

TR-MOD-ASSOCIATED-D8DB0D1E47 / Associated core / products/water/dotnet/Water.Cli/Program.cs

IF

This Hagar / water protection module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 32-line source is preserved with SHA-256 4be42f5198fe4ffc8b21b96555ec3496417e28515a91445a53a36f6961d3205f. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/dotnet/Water.Cli/Program.cs

TR-MOD-ASSOCIATED-DE112F6DC0 / Associated core / products/water/dotnet/Water.Core/AuthenticatedGateway.cs

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: public sealed record TelemetryBody(string Schema,string Facility,string Train,string Device,; public sealed record TelemetryPacket(TelemetryBody Body,string AuthenticationTag));; public sealed record GatewayReceipt(long Index,string PreviousRoot,long TelemetrySequence,; public sealed record GatewayResult(HagarResult Advisory,ProtectionResult Protection,GatewayReceipt Receipt));; public static readonly JsonSerializerOptions Options=new()

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 166-line source is preserved with SHA-256 aa7b9940baf2770d762d8739c8e97503ffd4232ce7c1544339fd9fc011fd3575. 13 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/dotnet/Water.Core/AuthenticatedGateway.cs

TR-MOD-ASSOCIATED-CDF354A6CD / Associated core / products/water/dotnet/Water.Core/Demo.cs

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: public static HagarInput HagarInput(long sequence=1) => new(); public static ProtectionInput ProtectionInput() => new(0.1,0.1,0.1,[],false,false,true,true,true,true,true,true,false,false,true);; public static object Simulate(int steps)

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 26-line source is preserved with SHA-256 496a32717b1dd31db8ab89498ab22ff73e6138a9b011a4984cc13a7ca8887af1. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/dotnet/Water.Core/Demo.cs

TR-MOD-ASSOCIATED-CE16B3D52D / Associated core / products/water/dotnet/Water.Core/Hagar.cs

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: public sealed record Sensor(string Id, double? Value, string Unit, double Uncertainty,; public sealed record HagarConfig(double MinPressure = 45, double MaxPressure = 75,; public sealed record HagarInput(Sensor[] Sensors, long Sequence, long PreviousSequence,; public sealed record HagarResult(string Decision, string Reason, double PressureBar, double PumpSpeedPct,; public static bool ValidConfig(HagarConfig c) => Finite(c.MinPressure,c.MaxPressure,c.PressureStep,

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 68-line source is preserved with SHA-256 aaa48ac618cc7622dd0970a8a5e3fb0eadf70d6eb8339d81353e58c3361a0605. 6 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/dotnet/Water.Core/Hagar.cs

TR-MOD-ASSOCIATED-FB09EB3347 / Associated core / products/water/dotnet/Water.Core/Protection.cs

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: public sealed record ProtectionInput(double? EntropyRisk, double? AuthenticationRisk, double? TrafficRisk,; public sealed record ProtectionResult(string Decision,string Reason,double? Score,double[] Nodes,; public static ProtectionResult Evaluate(ProtectionInput x)

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 40-line source is preserved with SHA-256 5eb433b50d11e875fbc9e0d5a541894e9f2f1c3c69bd70c96f49179ae0f127e1. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/dotnet/Water.Core/Protection.cs

TR-MOD-ASSOCIATED-301E1543FA / Associated core / products/water/legacy/hagar-python/src/mjos_hagar/__init__.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 18-line source is preserved with SHA-256 dfe70a2e830d00f9f2e04e87d9e888d7797345a16817df9f27a1032764eaf9f5. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/legacy/hagar-python/src/mjos_hagar/__init__.py

TR-MOD-ASSOCIATED-37E45EC085 / Associated core / products/water/legacy/hagar-python/src/mjos_hagar/api.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: `_send(self, status: int, body: dict[str, object]); _body(self); do_GET(self); do_POST(self); log_message(self, format: str, *args: object)`

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 67-line source is preserved with SHA-256 9e3dae0e8560663372a409d7cda3d5db47fb7fefc1de5c5775e58e8bfa4b92a5. 6 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/legacy/hagar-python/src/mjos_hagar/api.py

TR-MOD-ASSOCIATED-05D791A177 / Associated core / products/water/legacy/hagar-python/src/mjos_hagar/cli.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: main()

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 45-line source is preserved with SHA-256 07789400f091c242df1296797b9f0a30427aca507428b0c4316f3b2d2dc2b2d2. 1 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/legacy/hagar-python/src/mjos_hagar/cli.py

TR-MOD-ASSOCIATED-4624469026 / Associated core / products/water/legacy/hagar-python/src/mjos_hagar/controller.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: `_clip(value: float, lower: float, upper: float); _rate_limit(value: float, previous: float, maximum_step: float); estimate_osmotic_pressure_bar(salinity_psu: float, temperature_c: float); __init__(self, config: ControlConfig); recommend(self, frame: QadcFrame, state: ControllerState, temperature_c: float, salinity_history_psu: list[float] | None=None, *, permit_valid: bool=False, quality_verified: bool=False, anti_rollback_valid: bool=False, operator_authorized: bool=False, safety_interlocks_clear: bool=False)`

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 145-line source is preserved with SHA-256 `d348f97e54d0f295470bf4e8ec20d3f67c564cc123a77243e18a509db8a55a57`. 5 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/legacy/hagar-python/src/mjos_hagar/controller.py

TR-MOD-ASSOCIATED-A21536AFD2 / Associated core / products/water/legacy/hagar-python/src/mjos_hagar/grid.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: aggregate_receipts(receipts: list[NodeReceipt])

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 29-line source is preserved with SHA-256 420ec1f90cf84739576e25b22a9ba2fa40aec31371382a9fdf328f3c7926458b. 1 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/legacy/hagar-python/src/mjos_hagar/grid.py

TR-MOD-ASSOCIATED-1E90930051 / Associated core / products/water/legacy/hagar-python/src/mjos_hagar/optimizer.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: `_hash_policy(guard: float, damping: float, score: float)`; `tune_offline(qrng: MJosQrngClient, salinity_trace: list[float], candidates: int=64)`; `policy_as_json(policy: FrozenPolicy)`

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 77-line source is preserved with SHA-256 328b88391e2d63c4baf9ec324c625b0df180682c2471e9dc718d25f182e98718. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/legacy/hagar-python/src/mjos_hagar/optimizer.py

TR-MOD-ASSOCIATED-4CC57E81F0 / Associated core / products/water/legacy/hagar-python/src/mjos_hagar/qft.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: classical_qft_reference(samples: list[float]); observe_oscillation(samples: list[float])

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 45-line source is preserved with SHA-256 279867a9eacc8d43a939c485e9eb20a7435215c5b0edf36bd8edb09763667ac2. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/legacy/hagar-python/src/mjos_hagar/qft.py

TR-MOD-ASSOCIATED-CA125C3922 / Associated core / products/water/legacy/hagar-python/src/mjos_hagar/qrng.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: sample(self, count: int); sample(self, count: int); __init__(self, seed: int=7); sample(self, count: int); public_dict(self, reveal_bytes: bool=False)

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 112-line source is preserved with SHA-256 720beb3846896d19a026aae1c91628a654e5c3e2e2c183c8283eca907ad39592. 9 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/legacy/hagar-python/src/mjos_hagar/qrng.py

TR-MOD-ASSOCIATED-8E89AAC8EC / Associated core / products/water/legacy/hagar-python/src/mjos_hagar/salinity.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: `_as_psu(reading: SensorReading); fuse_salinity(frame: QadcFrame, config: ControlConfig)`

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 70-line source is preserved with SHA-256 2400442beb1418397454057d9b4c98b3e026c5969f1a4f083d364f41c386071d. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/legacy/hagar-python/src/mjos_hagar/salinity.py

TR-MOD-ASSOCIATED-A3ED84B5E7 / Associated core / products/water/legacy/hagar-python/src/mjos_hagar/schemas.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: `__post_init__(self); as_dict(self)`

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 112-line source is preserved with SHA-256 692023cb50440ae5cab34e21be492a44fc4c105aee9b383de8534fcd0098a7a2. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/legacy/hagar-python/src/mjos_hagar/schemas.py

TR-MOD-ASSOCIATED-7BE94D60E0 / Associated core / products/water/legacy/hagar-python/src/mjos_hagar/simulator.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: demo_config(); synthetic_frame(step: int, salinity_psu: float); run_simulation(steps: int=64, base_salinity_psu: float=35.0)

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 89-line source is preserved with SHA-256 66bfed41d3729ba974a7db596147d9e4bba82707f307dcb8165f43eae34739b3. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/legacy/hagar-python/src/mjos_hagar/simulator.py

TR-MOD-ASSOCIATED-47ABC38508 / Associated core / products/water/legacy/quantum-security-python/src/mjos_qs/__init__.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 15-line source is preserved with SHA-256 582cf529afb792c75cd160f9ee8d2f1cc61895889fb0e0e037d2f70f72b9cf6f. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/legacy/quantum-security-python/src/mjos_qs/__init__.py

TR-MOD-ASSOCIATED-BAF427CAF3 / Associated core / products/water/legacy/quantum-security-python/src/mjos_qs/adaptive_crypto.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: `__init__(self, ledger: ReceiptLedger | None=None); adapt(self, decision: ElsaDecision, *, authorized_recovery: bool=False)`

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 65-line source is preserved with SHA-256 110a61ff7bdb2f4f32cb0eb11b52487902ab3f6179358707cae6b033147b8317. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/legacy/quantum-security-python/src/mjos_qs/adaptive_crypto.py

TR-MOD-ASSOCIATED-DE3B451F1C / Associated core / products/water/legacy/quantum-security-python/src/mjos_qs/entropy.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: `_bits(data: bytes); health_tests(data: bytes, *, repetition_cutoff: int=34, window: int=256, low_ones: int=80, high_ones: int=176); __init__(self); generation(self); refill(self, packet: HardwareNoisePacket | None=None, *, independently_validated_external_bits: int=0)`

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 108-line source is preserved with SHA-256 `a0f6e36a07309a600b8503449b222f0f4a3a11645d448d667e031744475c0608`. 6 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

`associated-core:products/water/legacy/quantum-security-python/src/mjos_qs/entropy.py`

TR-MOD-ASSOCIATED-B2EADA8BD8 / Associated core / products/water/legacy/quantum-security-python/src/mjos_qs/hardware.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: `__init__(self, device_id: str, transport_key: bytes); sample(self, *, source_ready: bool=True, tamper: bool=False, force_noise: bytes | None=None); __init__(self, expected_device_id: str, transport_key: bytes, allowed_firmware: set[str] | None=None); verify(self, packet: HardwareNoisePacket)`

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 77-line source is preserved with SHA-256 `d2b4bfa46bc7562c8a2f0a69b3b3f75bcac06395b184bd602d80eb237dd068fa`. 4 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/legacy/quantum-security-python/src/mjos_qs/hardware.py

TR-MOD-ASSOCIATED-880365D3BB / Associated core / products/water/legacy/quantum-security-python/src/mjos_qs/homomorphic.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: `_lcm(a: int, b: int); _egcd(a: int, b: int); _inverse(a: int, n: int); _is_probable_prime(n: int, rounds: int=24); _prime(bits: int)`

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 162-line source is preserved with SHA-256 `7ecfc1337230cffc0464181390dd44d2d1cfc52b8a3b23275071b60896e66db6`. 19 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/legacy/quantum-security-python/src/mjos_qs/homomorphic.py

TR-MOD-ASSOCIATED-A5619A145F / Associated core / products/water/legacy/quantum-security-python/src/mjos_qs/kernel.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: `__init__(self, bridge: ElsaHardwareBridge); ingest(self, packet: HardwareNoisePacket, *, auth_risk: float, traffic_anomaly: float, integrity_failure: bool=False, key_compromise_signal: bool=False)`

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 60-line source is preserved with SHA-256 1386b23651410b5d8f071beb17ac549178a8470fcd475e1bc285b878c31efa39. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/legacy/quantum-security-python/src/mjos_qs/kernel.py

TR-MOD-ASSOCIATED-BBECC04D94 / Associated core / products/water/legacy/quantum-security-python/src/mjos_qs/privacy.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: consume(self, epsilon: float); __init__(self, public_key: PaillierPublicKey, budget: PrivacyBudgetLedger, receipts: ReceiptLedger | None=None); _two_sided_geometric(epsilon: float, sensitivity: int); privatize_encrypted_count(self, encrypted_count: int, *, epsilon: float, sensitivity: int=1)

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 48-line source is preserved with SHA-256 34eb5dd715d2e55627e34df3b22d21c2059a81c8efa06bc63e5b7f4491a0371c. 4 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/legacy/quantum-security-python/src/mjos_qs/privacy.py

TR-MOD-ASSOCIATED-FAFB3D0C1E / Associated core / products/water/legacy/quantum-security-python/src/mjos_qs/receipts.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: canonical_json(value: Any); __init__(self); root(self); receipts(self); append(self, event: str, decision: str, details: dict[str, Any])

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 67-line source is preserved with SHA-256 b9fac2461bd9c7cdfdcd17c6784c1616d611015ea2fdb5fb83632d7a87ab584. 7 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/legacy/quantum-security-python/src/mjos_qs/receipts.py

TR-MOD-ASSOCIATED-FA2E10DD54 / Associated core / products/water/legacy/quantum-security-python/src/mjos_qs/self_healing.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: `__init__(self, pool: ContinuouslyReplenishedEntropyPool, receipts: ReceiptLedger | None=None); _fingerprint(key: bytes); provision(self, root_class: RootClass, *, user_id: str='system', device_id: str='device'); rotate(self, root_class: RootClass, *, reason: str, automatic: bool=True, user_id: str='system', device_id: str='device'); heal_compromise(self, *, explicit_key_compromise: bool)`

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 96-line source is preserved with SHA-256 00cd01ac6d9785010c4c1a89994b37b4323a23a94415e4b9541980de346f1ad4. 5 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/legacy/quantum-security-python/src/mjos_qs/self_healing.py

TR-MOD-ASSOCIATED-91090A6A63 / Associated core / products/water/legacy/quantum-security-python/src/mjos_qs/elsa_policy.py

IF

This Hagar / water protection module is imported or its declared interface is invoked. Declared surface includes: prediction_gain(node_index: int); clamp(value: float, low: float=-0.9, high: float=0.9); __init__(self, window: int=9, persistence: int=3); _bounded(value: float); observe(self, *, entropy_health_risk: float, authentication_risk: float, traffic_anomaly: float, integrity_failure: bool=False, key_compromise_signal: bool=False)

HOW

Apply the source-defined probe, policy, risk, state and transport rules. Advisory and authenticated-host roles remain separate. The complete terminology-edited 69-line source is preserved with SHA-256 5f4df753f1621a2e0770bc6e577067d31e3a8c4fd630b4f87048a2ed0a6cec40. 5 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:products/water/legacy/quantum-security-python/src/mjos_qs/elsa_policy.py

TR-MOD-ASSOCIATED-5CFB43560F / Associated core / reference/sdk/python/bangel_sdk.py

IF

This API / SDK module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 4-line source is preserved with SHA-256 d694a1dabc2e3a82cf669458b9007fb636286e44320bb13af50e4e74226bae93. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/sdk/python/bangel_sdk.py

TR-MOD-ASSOCIATED-4723B7235A / Associated core / reference/src/bangel/__init__.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `__getattr__(name); __dir__()`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 25-line source is preserved with SHA-256 179daea6704c178d6c10f9194c900a1cfd7af33a97149e83cf044f7e49bd1177. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/__init__.py

TR-MOD-ASSOCIATED-8BECA0F203 / Associated core / reference/src/bangel/__main__.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 4-line source is preserved with SHA-256 76fa916e93e0ae1a6c1bb51dcc0bcf289c014e9f760a47165f8a84401ccf41d7. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/__main__.py

TR-MOD-ASSOCIATED-7A175E9D8C / Associated core / reference/src/bangel/api.py

IF

This API / SDK module is imported or its declared interface is invoked. Declared surface includes: fail(code, message); exact(value, keys, label); valid_id(value); make_request(operation, input=None, *, request_id='request-1', limits=None, compatibility=None); _safe_json(value: Any, code: str)

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 447-line source is preserved with SHA-256 358d35e8f4a1b401016cc91e7ba28f6de90d1668ee6924fef4f72b30658ea656. 29 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/api.py

TR-MOD-ASSOCIATED-6851DFD944 / Associated core / reference/src/bangel/ast.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: to_ir(self)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 57-line source is preserved with SHA-256 e2077ccbf68358df08581fa9acdac86a19777e37bd0416686fe6b33f12c03a44. 1 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/ast.py

TR-MOD-ASSOCIATED-B2D6E3C600 / Associated core / reference/src/bangel/canonical.py

IF

This Receipt / evidence module is imported or its declared interface is invoked. Declared surface includes: `_normalize(value: Any); canonical_bytes(value: Any); digest(value: Any)`

HOW

Preserve exact serialization, digest binding, linkage and inspection/replay behavior without promoting integrity metadata into authority. The complete terminology-edited 45-line source is preserved with SHA-256 `aaca8bfae08caaf2d4bb3eca220e00cc79bf9a9ccd7ac9f79b801f48b50c63a8`. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

`associated-core:reference/src/bangel/canonical.py`

TR-MOD-ASSOCIATED-E5961AC73C / Associated core / reference/src/bangel/cli.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `_json(value: object); build_parser(); main(argv: Sequence[str] | None=None)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 158-line source is preserved with SHA-256 9972cf930428735927a18e53353963ea43478ec797f630cb68cd20feaa82fe20. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/cli.py

TR-MOD-ASSOCIATED-38A9B99A5E / Associated core / reference/src/bangel/client.py

IF

This API / SDK module is imported or its declared interface is invoked. Declared surface includes: `__init__(self, argv: Sequence[str], *, timeout: float=15.0, max_frame_bytes: int=MAX_FRAME_BYTES); _fail(self, error: Exception); _read(self); _write(self); request(self, request: dict[str, Any], *, timeout: float | None=None)`

HOW

Validate the exact host/protocol contract and preserve request, response, value and effect boundaries across this interface. The complete terminology-edited 142-line source is preserved with SHA-256 2c12f9cc00ca76863fdf75a96b8cc247a85e90d7582568f9cb2610252d8e140e. 21 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/client.py

TR-MOD-ASSOCIATED-B03854C7BA / Associated core / reference/src/bangel/compiler.py

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: to_dict(self); to_bytes(self); from_bytes(cls, data: bytes); to_dict(self); to_dict(self)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 352-line source is preserved with SHA-256 cb37e327273ee7f4b36db1a884b0a0a987e96ff7366fd59a83fe034e889b71c8. 18 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/compiler.py

TR-MOD-ASSOCIATED-641EEF03E9 / Associated core / reference/src/bangel/diagnostics.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: to_dict(self); __init__(self, code: str, message: str, span: SourceSpan | None=None, details: Mapping[str, object] | None=None); to_dict(self)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 44-line source is preserved with SHA-256 7ef0d23c2166d9cec359b478632060ef3aa687d0ee008d003414bc158573ed93. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/diagnostics.py

TR-MOD-ASSOCIATED-A8DDDF3DB5 / Associated core / reference/src/bangel/evaluator.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `__post_init__(self); consume(self); _truth(value: Any); _quantity(value: Any); _vector(value: Any, name: str)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 404-line source is preserved with SHA-256 `ea060ed710796064de23ae2be73919e89c2a2cf3567824dbb8b6ace23e7fa61b`. 11 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/evaluator.py

TR-MOD-ASSOCIATED-4B40A9D2D9 / Associated core / reference/src/bangel/expression.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `__init__(self, text: str, line: int); parse(self); _peek(self); _take(self); _expression(self, minimum: int)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 108-line source is preserved with SHA-256 7dd1db4946aa102cb947cce05586db009ad8075520f8781d76fb3afb9b79afe1. 6 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/expression.py

TR-MOD-ASSOCIATED-6FFA25002E / Associated core / reference/src/bangel/formatter.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `_shape(value)`; `_syntax_marks(tree, tokens: tuple[Token, ...])`; `_spacing(previous: Token, token: Token, unit_gaps, unary)`; `format_source(source: str)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 158-line source is preserved with SHA-256 9cd0fca967cff6133d8c4708c05f683f9fb6b55f0b46b4a8315620a5fb5a6361. 4 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/formatter.py

TR-MOD-ASSOCIATED-2465F7C64F / Associated core / reference/src/bangel/frontend/__init__.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 36-line source is preserved with SHA-256 8d2df6895ecc4204fc144e834008c4d29b59c2c2b624bc24fc626a586dc9375f. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/frontend/__init__.py

TR-MOD-ASSOCIATED-C576E2F5AE / Associated core / reference/src/bangel/frontend/ast.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `_encode(value: Any); to_dict(self); text(self)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 469-line source is preserved with SHA-256 5f7accd99d007a6a67d2f3cd5452a8825fc3effeef73ffd544cff996a083315. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/frontend/ast.py

TR-MOD-ASSOCIATED-81D38FE48C / Associated core / reference/src/bangel/frontend/lexer.py

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes:
_normalized_text(source: str); _without_comment(line: str); _string_token(line: str, start: int, line_number: int);
lex(source: str)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 272-line source is preserved with SHA-256
dce2b6380313631ac51fb7b66ba8b88bbb1f1297d23af94dcc27504ecccdad7d. 4 extracted
function/declaration entries are separately indexed, including exact Python bodies and guards where
available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module
inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host
behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R
compilation and physical devices were not executed in this environment. This source copy received the
requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/frontend/lexer.py

TR-MOD-ASSOCIATED-5616BB2085 / Associated core / reference/src/bangel/frontend/lower.py

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: typed_ast_mapping(); _span_key(span); _semantic_key(owner: tuple[str, ...], name: str); from_model(cls, model: SemanticModel); type_of(self, node: object)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 775-line source is preserved with SHA-256 5d6fc9811eecb0c556da868f94d2cd3e1e2471c396474c776c1a66b344df1b0a. 20 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/frontend/lower.py

TR-MOD-ASSOCIATED-CEC383E42B / Associated core / reference/src/bangel/frontend/parser.py

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes:
__init__(self, tokens: tuple[Token, ...], source_name: str | None); parse(self); _parse_header(self); _effects(self, *, module: bool); _imports(self)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 1066-line source is preserved with SHA-256 7a12c8054b59162475eddf2ca827a7b7e36d5123cc8c0891c5ac78c7c5b56504. 59 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/frontend/parser.py

TR-MOD-ASSOCIATED-054EDA3F09 / Associated core / reference/src/bangel/frontend/semantics.py

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: `_diag(code: str, message: str, span: SourceSpan | None, **details: object); to_dict(self); render(self); to_dict(self); to_dict(self)`

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 2895-line source is preserved with SHA-256 `f0587630482b135b9f9ce33c857f4571c8281936ddec79d5d63c05f4f5501ab3`. 106 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/frontend/semantics.py

TR-MOD-ASSOCIATED-15FBF0EEB0 / Associated core / reference/src/bangel/frontend/tokens.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: to_dict(self)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 44-line source is preserved with SHA-256 8424aef18c8a1bcb0d17fced8c386282ec05294cb1043b4b42dd8ea7890f7c27. 1 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/frontend/tokens.py

TR-MOD-ASSOCIATED-89E2DA84A8 / Associated core / reference/src/bangel/gates.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: passkey_preflight_report(*, tests_passed: int, package_root: str | None=None)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 32-line source is preserved with SHA-256 374cfc4e3db7c43ce06e69a93697a8a711aee68d4f359e1929e2acd6c5522dea. 1 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/gates.py

TR-MOD-ASSOCIATED-D840B2BBD7 / Associated core / reference/src/bangel/geometry.py

IF

This Numeric / typed values module is imported or its declared interface is invoked. Declared surface includes: `__post_init__(self); to_dict(self); __post_init__(self); to_dict(self); __post_init__(self)`

HOW

Use the exact numeric and dimensional rules of this module; keep typed unknown, signed values and source-specific bounds distinct. The complete terminology-edited 71-line source is preserved with SHA-256 11c0fa2234c5bcc9ee6a49305b0602cd01648dcd0d80f98de2674ffe085a553a. 6 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/geometry.py

TR-MOD-ASSOCIATED-863C77F7EA / Associated core / reference/src/bangel/identity.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 73-line source is preserved with SHA-256 b2f7230a2e5fdd26b70587dba138be58888d37a351166d1f3102bf6196e5a0e0. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/identity.py

TR-MOD-ASSOCIATED-D834F96C92 / Associated core / reference/src/bangel/inspector.py

IF

This Receipt / evidence module is imported or its declared interface is invoked. Declared surface includes: inspect_receipt(receipt: dict[str, Any]); query_receipt(receipt: dict[str, Any], path: str); compare_receipts(left: dict[str, Any], right: dict[str, Any]); replay_receipt(compilation: dict[str, Any], receipt: dict[str, Any])

HOW

Preserve exact serialization, digest binding, linkage and inspection/replay behavior without promoting integrity metadata into authority. The complete terminology-edited 75-line source is preserved with SHA-256 83327ff6da9f722454b6efb26343d0b2343ce25a4a29dcefeb9080ad08af5421. 4 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/inspector.py

TR-MOD-ASSOCIATED-1636EB6954 / Associated core / reference/src/bangel/ir.py

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: `_verify_provenance(value: Any, *, span: Any, source_name: str); _verify_expression(expression: Any, *, strict: bool=False, source_name: str=""); _verify_instruction(instruction: Any, *, strict: bool, source_name: str); verify_nested(value: Any); to_dict(self)`

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 437-line source is preserved with SHA-256 `fc4810a726cb40d7dcbb39e1e21b25947a386c15db8ec8c166604ab45b0e15e6`. 12 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/ir.py

TR-MOD-ASSOCIATED-AE0AC53DD6 / Associated core / reference/src/bangel/ir_contract.py

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes:
fail(code: str, message: str); check(condition: bool, code: str, message: str); exact(value: Any, keys: set[str], code='IR_SCHEMA'); text(value: Any, pattern: str | None=None, *, nullable=False, code='IR_SCHEMA'); integer(value: Any, low=0, high=MAX_POSITION, code='IR_SCHEMA')

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 480-line source is preserved with SHA-256 3e2aa8ab4476678543aac22333e6910d71d26bcbbdf23db5fe96cfa2772be5f7. 24 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/ir_contract.py

TR-MOD-ASSOCIATED-DA08A21AFB / Associated core / reference/src/bangel/ir_crossfields.py

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: `_require(condition: bool, message: str); _fits(actual: dict, expected: dict); _unique(items: list, label: str); _position(value); _source_order(items, label)`

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 598-line source is preserved with SHA-256 102f1a961b07bd1e939e431cdbdd521b47fb818d8afaa4bdb311840439df033e. 23 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/ir_crossfields.py

TR-MOD-ASSOCIATED-7A268D171B / Associated core / reference/src/bangel/ir_registry.py

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes:
to_dict(self); _failure(diagnostic: str, behavior: str); _instruction(kind: str, *, lanes: tuple[str, ...], operands: tuple[str, ...], result_type: str, strict_effects: tuple[tuple[str, ...], ...]=(('pure',)), details: tuple[tuple[str, ...], ...]=((,)), expression: str='required', name: str | dict[str, str]='required', strict_type: str='required', invariants: tuple[str, ...], failures: tuple[dict[str, str], ...], legacy: bool=False); _value(kind: str, *, lanes: tuple[str, ...], operands: tuple[str, ...], minimum: int, maximum: int | None, result_type: str, value_field: str, type_kinds: ...
[continued in source]

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 771-line source is preserved with SHA-256 b6820cfc7e8a852fbf55ec5d825ef8d8ca6d868a1ac0a2bb58b5e6737c66e1ec. 12 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/ir_registry.py

TR-MOD-ASSOCIATED-E8470C4328 / Associated core / reference/src/bangel/ir_types.py

IF

This JP / admission module is imported or its declared interface is invoked. Declared surface includes: `_fail(message, code='IR_TYPE');` `_check(condition, message, code='IR_TYPE');` `_keys(value, required, optional=());` `unit_work_budget(limit=MAX_UNIT_TOTAL_WORK);` `_charge_unit_work(work)`

HOW

Preserve the representation schema, value types, provenance, registry and independent admission checks encoded here. The complete terminology-edited 541-line source is preserved with SHA-256 120540f65e500825e97f0468f7d0605d702ebec6bf124ae08d35382ae98ac761. 28 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/ir_types.py

TR-MOD-ASSOCIATED-3E21925232 / Associated core / reference/src/bangel/legacy.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: parse_legacy_01(source: str)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 50-line source is preserved with SHA-256 3f93881bd05900a63b40eeb3757443217e7af9794e4c755ba5e3aa20000b5b5a. 1 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/legacy.py

TR-MOD-ASSOCIATED-ECCB5DC480 / Associated core / reference/src/bangel/lexer.py

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes:
lex_expression(text: str, line: int, start_column: int=1)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 45-line source is preserved with SHA-256 0a289c1fe38ed0d88fba53c6513b4d9c26994c1ba1ba22cb4d230e9a88f05120. 1 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/lexer.py

TR-MOD-ASSOCIATED-D72C461912 / Associated core / reference/src/bangel/linter.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `_finding(code: str, message: str, span: SourceSpan | None, severity: str); lint_source(source_name: str, source: str)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 43-line source is preserved with SHA-256 0c5a6c34ce4c6b3f351c76c194c61b60d889d3d11578b175ac1f0b3e6b4e2119. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/linter.py

TR-MOD-ASSOCIATED-7DB9BF805D / Associated core / reference/src/bangel/numerics.py

IF

This Numeric / typed values module is imported or its declared interface is invoked. Declared surface includes: `_series(values: Iterable[Quantity], name: str, minimum: int=1); vector_add(left: Iterable[Quantity], right: Iterable[Quantity]); finite_difference(xs: Iterable[Quantity], ys: Iterable[Quantity]); trapezoid(xs: Iterable[Quantity], ys: Iterable[Quantity]); covariance(left: Iterable[Quantity], right: Iterable[Quantity])`

HOW

Use the exact numeric and dimensional rules of this module; keep typed unknown, signed values and source-specific bounds distinct. The complete terminology-edited 64-line source is preserved with SHA-256 52bc4b602879fce4b4d00ddcdf6ef0cea456c2171d0a0fb1e178009df9430cd8. 5 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/numerics.py

TR-MOD-ASSOCIATED-B117A683B6 / Associated core / reference/src/bangel/parser.py

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes:
_statement(line: SourceLine); parse_program(source: str)

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 151-line source is preserved with SHA-256 fdb6c6e4f5b6fa707ad6a2a5dddc071756780e3e26d1103d09b189fb3818b2d3. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/parser.py

TR-MOD-ASSOCIATED-4209707877 / Associated core / reference/src/bangel/project.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: to_dict(self); verify(self); build(self, manifest: dict[str, Any], directory: Path); build_file(self, manifest_path: Path)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 87-line source is preserved with SHA-256 6bf86cbff03636f3bde4ed9a2e9d004a51c7befd669d30ef30e552220c33fc0a. 4 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/project.py

TR-MOD-ASSOCIATED-460C0DF189 / Associated core / reference/src/bangel/receipt_contract.py

IF

This Receipt / evidence module is imported or its declared interface is invoked. Declared surface includes: `check(condition, message, code='RECEIPT_SHAPE');` `exact(value, keys, code='RECEIPT_SHAPE');` `text(value, pattern=None, *, empty=False, code='RECEIPT_SHAPE');` `integer(value, lower=0, upper=2 ** 63 - 1, code='RECEIPT_LIMITS');` `preflight(root)`

HOW

Preserve exact serialization, digest binding, linkage and inspection/replay behavior without promoting integrity metadata into authority. The complete terminology-edited 311-line source is preserved with SHA-256 3db7064ad4d9ef9d64ca2f1e079c82f7d371c6882cc54255eab6e88df1a71c84. 12 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/receipt_contract.py

TR-MOD-ASSOCIATED-DF340A1FE8 / Associated core / reference/src/bangel/receipts.py

IF

This Receipt / evidence module is imported or its declared interface is invoked. Declared surface includes: bind_receipt(basis: dict[str, Any]); verify_receipt(receipt: dict[str, Any]); receipt_from_bytes(data: bytes); object_pairs(pairs); forbidden_number(_)

HOW

Preserve exact serialization, digest binding, linkage and inspection/replay behavior without promoting integrity metadata into authority. The complete terminology-edited 71-line source is preserved with SHA-256 e9bd994e21831dc8290b3a0e62850986ba0b731d59b2fce25fbd3bb4cac3557f. 5 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/receipts.py

TR-MOD-ASSOCIATED-313B7C2608 / Associated core / reference/src/bangel/runtime.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: to_dict(self); verify(self); __init__(self, *, instruction_limit: int=4096, event_limit: int=8192, function_depth: int=64, evaluation_limit: int=16384, allocation_limit: int=1000000, output_limit: int=1048576, receipt_limit: int=4194304); execute(self, compilation: dict[str, Any], *, cancelled: Callable[[], bool] | None=None); encode_value(value: Any)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 297-line source is preserved with SHA-256 7bb8853d17fd02064ad52368b7a56fe7c2d8fffb816b37da5b26b696439ce6d7. 7 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/runtime.py

TR-MOD-ASSOCIATED-1C2B4C5987 / Associated core / reference/src/bangel/scheduler.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `__init__(self, *, max_jobs: int=256, runtime: JoannaRuntime | None=None); run(self, jobs: Iterable[ScheduledJob], *, cancelled: Callable[[], bool] | None=None)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 156-line source is preserved with SHA-256 `d8f06e0e522f794ff021549a60a44f992f2c463d9b16330e719d7e2a15c264fd`. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/scheduler.py

TR-MOD-ASSOCIATED-86FFB7DDAB / Associated core / reference/src/bangel/semantics.py

IF

This Elsa / source module is imported or its declared interface is invoked. Declared surface includes: `_names(expression: Expression); _calls(expression: Expression); analyze(program: Program)`

HOW

Preserve lexical, syntactic, binding, type and lowering behavior before producing a validated representation. The complete terminology-edited 114-line source is preserved with SHA-256 `ffa40408f6da15e3021fa2270c1d992a41229799d54f2eb75b83c9702b7ae20a`. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/semantics.py

TR-MOD-ASSOCIATED-F6CD1B692E / Associated core / reference/src/bangel/source.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: `normalize_source(source: str); logical_lines(source: str)`

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 54-line source is preserved with SHA-256 `e8b3264372b13e3faa03faf9744cad70cfa1d4778836146b4e913f43a8cc7071`. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

`associated-core:reference/src/bangel/source.py`

TR-MOD-ASSOCIATED-3D0C81E20F / Associated core / reference/src/bangel/state.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: enter(self, stage: Stage, instruction: int | None, action: str); complete(self)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 59-line source is preserved with SHA-256 514a3d408c1e5ea4585a23ab3e8bb6f20dddb35f50cecf510b5408761154a76e. 2 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/state.py

TR-MOD-ASSOCIATED-5994375BF9 / Associated core / reference/src/bangel/strict_runtime.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. Declared surface includes: get(self, name: str); set(self, name: str, value: Any); _underlying(value_type); _unknown(value_type, values); _decimal_text(value: Decimal)

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 584-line source is preserved with SHA-256 f791522e9f7a112d3dd1af08f3a522ea5958901771b114cdd27c30bd02ca3255. 23 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/strict_runtime.py

TR-MOD-ASSOCIATED-CE1AA3A437 / Associated core / reference/src/bangel/tokens.py

IF

This Runtime / supporting core module is imported or its declared interface is invoked. This module contains shared declarations or constants; the complete source is retained.

HOW

Use the complete terminology-edited module and its declared types, call paths, state and error behavior; preserve program/evidence boundaries. The complete 26-line source is preserved with SHA-256 de69106936311c4d0d828f3a6fa7e90220832bf49fd1ca4870dfc3a0d9d0a054. 0 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/tokens.py

TR-MOD-ASSOCIATED-4B6CF2A041 / Associated core / reference/src/bangel/topology.py

IF

This Numeric / typed values module is imported or its declared interface is invoked. Declared surface includes: canonical_stage(node: str); __post_init__(self); to_dict(self); add_node(self, node: str); add_edge(self, source: str, target: str, mode: str)

HOW

Use the exact numeric and dimensional rules of this module; keep typed unknown, signed values and source-specific bounds distinct. The complete terminology-edited 67-line source is preserved with SHA-256 79573438fa84903045c7d6256155af8d820f68b37ecae3ba3096f62af374bd5b. 6 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/topology.py

TR-MOD-ASSOCIATED-CA0490B2D6 / Associated core / reference/src/bangel/units.py

IF

This Numeric / typed values module is imported or its declared interface is invoked. Declared surface includes: require_unit(symbol: str); combine_dimensions(left: Dimension, right: Dimension, sign: int); dimension_text(dimension: Dimension)

HOW

Use the exact numeric and dimensional rules of this module; keep typed unknown, signed values and source-specific bounds distinct. The complete terminology-edited 59-line source is preserved with SHA-256 624b47631a708b7af681cbbb13e95bd45f81c1da224618bf5f3578c6f1ed7aa9. 3 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/units.py

TR-MOD-ASSOCIATED-9792C6F574 / Associated core / reference/src/bangel/values.py

IF

This Numeric / typed values module is imported or its declared interface is invoked. Declared surface includes: `__post_init__(self); known(cls, magnitude: Decimal, unit_symbol: str='1'); unknown(cls, unit_symbol: str='1'); mass_delta(cls, magnitude: Decimal, unit_symbol: str='mg'); is_unknown(self)`

HOW

Use the exact numeric and dimensional rules of this module; keep typed unknown, signed values and source-specific bounds distinct. The complete terminology-edited 183-line source is preserved with SHA-256 `b9169eb0a6ffc95881ff1803417cbd2a77fbc817549d02df10641670e91ee8e7`. 14 extracted function/declaration entries are separately indexed, including exact Python bodies and guards where available.

THEN

Follow the exact returned values, diagnostics and state effects in the preserved implementation. Module inclusion and syntax extraction are documentary coverage; they do not prove every branch or cross-host behavior.

CURRENT EVIDENCE

Fresh related Python suites and per-profile/water results are included. Native C#/.NET, C++/Rust/R compilation and physical devices were not executed in this environment. This source copy received the requested terminology transfer after the earlier suite; the complete renamed host has not been rebuilt here.

REMAINING REQUIREMENT

Map unverified branches and native-host behavior to source-specific evidence before assigning a complete verification verdict.

SOURCE REFERENCES

associated-core:reference/src/bangel/values.py

Teal / New reconciliation

MJos Predictive Model | First manifestation of the Bangel Language

MJ Physics Engineering | Owned and operated by Michael Bangel | Clearwater, Florida

27 new project and reconstruction records

This newly authored edition connects recovered documentation and inspected project sources. Proposed language bindings, named-test discovery and historical execution results remain separate. Gold and Indigo reconstructions follow the recovered overview rules; they are not the missing original volumes. Green has no recovered rule and is not silently invented. White papers remain excluded.

Use the searchable library to inspect each record, source link, industry and project. The appended source-faithful color editions preserve the original mathematical layouts and diagrams with updated terminology.

MJos Predictive Model - IF / HOW / THEN logic

MJOS-20260924-MJOS-PREDICTIVE-MODEL-TEAL | New project sequence · proposed bindings

MJos Predictive Model / Teal

MJos Predictive Model | First manifestation of the Bangel Language

MJ Physics Engineering | Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN

IF
Chronology, units, provenance, comparability and required evidence are admitted.
HOW
Evaluate preserved model arithmetic in independent bounded workers; compare output and minority-risk gates.
THEN
Return an advisory forecast with uncertainty or HOLD; execution permission remains separate.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- Forecasts are advisory and uncalibrated.
- A hosted software package is not a bootable OS.
- Existing source notice describes private inherited material; naming updates must preserve license/attribution boundaries.
- No real-workload forecast accuracy established by this review.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- Forecasts are advisory and uncalibrated.
- A hosted software package is not a bootable OS.
- Existing source notice describes private inherited material; naming updates must preserve license/attribution boundaries.
- No real-workload forecast accuracy established by this review.

SOURCE REFERENCES

[README.md](#)

[core.py](#)

[forecast.bangel](#)

Bangel Language - IF / HOW / THEN logic

MJOS-20260924-BANGEL-LANGUAGE-TEAL | New project sequence · proposed bindings

Bangel Language / Teal

MJos Predictive Model | First manifestation of the Bangel Language

MJ Physics Engineering | Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN

IF

Source and inputs satisfy the versioned admitted language contract.

HOW

Preserve type/unit/missingness, compile with Elsa, independently admit JP and execute with Joanna under limits.

THEN

Return a receipt with PASS/HOLD and evidence; host effects require independent authorization.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- Fresh package execution was not performed here; README test counts refer to named prior candidates.
- Complete GIN lifecycle, all formula conversion and 189 Purple/Yellow relationship meanings remain open per source documentation.
- Do not conflate compilation PASS with permission to act.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- Fresh package execution was not performed here; README test counts refer to named prior candidates.
- Complete GIN lifecycle, all formula conversion and 189 Purple/Yellow relationship meanings remain open per source documentation.
- Do not conflate compilation PASS with permission to act.

SOURCE REFERENCES

[README.md](#)

[CONTRACT-RECONCILIATION.md](#)

BarTide - IF / HOW / THEN logic

MJOS-20260924-BARTIDE-TEAL | New project sequence · proposed bindings

BarTide / Teal

MJos Predictive Model | First manifestation of the Bangel Language

MJ Physics Engineering | Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN

IF

A request belongs to an authenticated, active tenant and has an admitted operation.

HOW

Resolve tenant identity, input shape, current version, idempotency and module-specific rules.

THEN

Return a bounded typed result; hold unknown prerequisites and deny failed authorization.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- README calls this a source candidate, not a completed production launch.
- No fresh production configuration/runtime audit; source module existence does not prove activation.
- No production Bangel integration discovered in BarTide application source; reconciliation is a proposed adapter layer.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- README calls this a source candidate, not a completed production launch.
- No fresh production configuration/runtime audit; source module existence does not prove activation.
- No production Bangel integration discovered in BarTide application source; reconciliation is a proposed adapter layer.

SOURCE REFERENCES

[README.md](#)

[Program.cs](#)

BarTide Stripe API - IF / HOW / THEN logic

MJOS-20260924-STRIDE-API-TEAL | New project sequence · proposed bindings

BarTide Stripe API / Teal

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IF / HOW / THEN

IF

Sandbox configuration, connected account, cards-only verification and order binding are admitted.

HOW

Bind amount/currency, tenant/order/attempt, account, provider response and signed notification; reconcile provider state.

THEN

Record only the reconciled payment state; absent provider evidence remains pending/HOLD.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- Do not describe merchant source as enabled live payments.
- Production secrets, provider account readiness and successful real payment flow were not inspected.
- Signed webhooks are provider evidence, not blanket permission.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- Do not describe merchant source as enabled live payments.
- Production secrets, provider account readiness and successful real payment flow were not inspected.
- Signed webhooks are provider evidence, not blanket permission.

SOURCE REFERENCES

[MerchantPaymentOptions.cs](#)

[MerchantStripeProvider.cs](#)

[MerchantPaymentsEndpoints.cs](#)

MJ Neural Net - IF / HOW / THEN logic

MJOS-20260924-MJ-NEURAL-NET-TEAL | New project sequence · proposed bindings

MJ Neural Net / Teal

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IF / HOW / THEN

IF

Cue features, memory timing and known relational context pass the closed input contract.

HOW

Run bounded association; preserve missing features; compare entity/relation/context; bind independent review.

THEN

Return a provisional advisory candidate or HOLD; retain downstream DENY and no actuation permission.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- Engineered computational model, not hippocampal biology or general natural-language prediction.
- Lowercase r0 remains provisional and distinct from uppercase R0.
- Synthetic comparison shows a recall/coverage tradeoff; not field accuracy or equal-coverage benefit.
- Diagram geometry and command mapping must retain separate namespaces.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- Engineered computational model, not hippocampal biology or general natural-language prediction.
- Lowercase r0 remains provisional and distinct from uppercase R0.
- Synthetic comparison shows a recall/coverage tradeoff; not field accuracy or equal-coverage benefit.
- Diagram geometry and command mapping must retain separate namespaces.

SOURCE REFERENCES

[neural.bangel](#)

[adapter.py](#)

[README.md](#)

Neural Logic Mapping - IF / HOW / THEN logic

MJOS-20260924-NEURAL-LOGIC-MAPPING-TEAL | New project sequence · proposed bindings

Neural Logic Mapping / Teal

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IF / HOW / THEN

IF

An observation and first reading are preserved with context and assumptions.

HOW

Compare alternative readings across declared stages; separate observed structure from inferred intention; run bounded recovery only for a named gap.

THEN

Output only supported scope; hold confirmation when referents or intent are unresolved.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- Historical task is not a current source repository.
- Formalization explicitly said implementation/testing pending; later parser-valid snippets do not prove complete NLP/image interpretation implementation.
- Intent is inference; UNKNOWN != ZERO; you/You distinction must be preserved.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- Historical task is not a current source repository.
- Formalization explicitly said implementation/testing pending; later parser-valid snippets do not prove complete NLP/image interpretation implementation.
- Intent is inference; UNKNOWN != ZERO; you/You distinction must be preserved.

MJ Memory Recall - IF / HOW / THEN logic

MJOS-20260924-MJ-MEMORY-RECALL-TEAL | New project sequence · proposed bindings

MJ Memory Recall / Teal

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IF / HOW / THEN

IF

Memory is available as of the query, in the same namespace/frame with authenticated provenance.

HOW

Compare cue, entity, relation, context and trajectory; hold ambiguous margin and missing context; review updates independently.

THEN

Return a bounded advisory memory match or HOLD; forecasts never become observations.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- Catalog dimensions were read from current documentation, not recounted here.
- Geometry alone cannot identify an entity; 146 distinct complete assignments documented across the larger catalog.
- No user memory import, biological validation or physical memory reclamation claim.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- Catalog dimensions were read from current documentation, not recounted here.
- Geometry alone cannot identify an entity; 146 distinct complete assignments documented across the larger catalog.
- No user memory import, biological validation or physical memory reclamation claim.

SOURCE REFERENCES

[README.md](#)

[recall.bangel](#)

[KERNEL.md](#)

Moana - IF / HOW / THEN logic

MJOS-20260924-MOANA-TEAL | New project sequence · proposed bindings

Moana / Teal

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IF / HOW / THEN

IF

A job has the required recorded observations and complete tasks at the current revision.

HOW

Preserve Unknown versus known zero, photo bytes and provenance; prepare/validate review; commit once against revision and operation identity.

THEN

Save a supported change or hold missing evidence; retain backup/recovery and history.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- Current source was not recovered or inspected in this pass; all build/test assertions are historical task statements.
- Device-local single-operator prototype; shared accounts/cloud sync/scheduling/billing were later work.
- Do not transfer earlier CPU/encryption/rendering benchmark claims into Moana performance claims.
- Native Moana platform not fully activated; recovered presentation/routing contract was reused.
- Report page-break issue remained noted.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- Current source was not recovered or inspected in this pass; all build/test assertions are historical task statements.
- Device-local single-operator prototype; shared accounts/cloud sync/scheduling/billing were later work.
- Do not transfer earlier CPU/encryption/rendering benchmark claims into Moana performance claims.
- Native Moana platform not fully activated; recovered presentation/routing contract was reused.
- Report page-break issue remained noted.

SOURCE REFERENCES

mj-moana.stormy-ray-3254.chatgpt.site

Engineering Studio - IF / HOW / THEN logic

MJOS-20260924-ENGINEERING-STUDIO-TEAL | New project sequence · proposed bindings

Engineering Studio / Teal

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IF / HOW / THEN

IF

A selected lesson/example declares its language, expected outcome and execution capability.

HOW

Keep editable source, prediction, execution evidence and receipt separate; bind source hash/runtime/version.

THEN

Report real parser/runtime evidence where available; label exported-but-not-run C# honestly.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- C# is not compiled/executed in browser or server; downloaded .NET project is its execution path.
- Expected output and completion checkmarks are not evidence of execution.
- No current application API/database integration or deployment control.
- Adding Bangel and build.tide.casa is the present requested work, not an existing capability established by this review.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- C# is not compiled/executed in browser or server; downloaded .NET project is its execution path.
- Expected output and completion checkmarks are not evidence of execution.
- No current application API/database integration or deployment control.
- Adding Bangel and build.tide.casa is the present requested work, not an existing capability established by this review.

SOURCE REFERENCES

ENGINEERING-STUDIO.md

Hagar / Water Protection - IF / HOW / THEN logic

MJOS-20260924-HAGAR-TEAL | New project sequence · proposed bindings

Hagar / Water Protection / Teal

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IF / HOW / THEN

IF

The purpose, inputs, units, evidence origin and current profile are declared.

HOW

Bind the source identity, compare only eligible observations, preserve uncertainty and review the evidence ceiling.

THEN

Return a scoped result, HOLD for missing evidence, or DENY for a failed permission boundary.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- Each physical model needs its own measured inputs, units, environment, uncertainty and authority boundary.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- Each physical model needs its own measured inputs, units, environment, uncertainty and authority boundary.

Pearl / DRO - IF / HOW / THEN logic

MJOS-20260924-PEARL-TEAL | New project sequence · proposed bindings

Pearl / DRO / Teal

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IF / HOW / THEN

IF

The purpose, inputs, units, evidence origin and current profile are declared.

HOW

Bind the source identity, compare only eligible observations, preserve uncertainty and review the evidence ceiling.

THEN

Return a scoped result, HOLD for missing evidence, or DENY for a failed permission boundary.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- Recovered conceptual and mathematical claims must retain their evidence ceiling; no physical performance upgrade is implied.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- Recovered conceptual and mathematical claims must retain their evidence ceiling; no physical performance upgrade is implied.

GIN Measurement - IF / HOW / THEN logic

MJOS-20260924-GIN-TEAL | New project sequence · proposed bindings

GIN Measurement / Teal

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IF / HOW / THEN

IF

The purpose, inputs, units, evidence origin and current profile are declared.

HOW

Bind the source identity, compare only eligible observations, preserve uncertainty and review the evidence ceiling.

THEN

Return a scoped result, HOLD for missing evidence, or DENY for a failed permission boundary.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- Full GIN lifecycle remains distinct from the implemented interval and evidence adapters.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- Full GIN lifecycle remains distinct from the implemented interval and evidence adapters.

Solar Systems - IF / HOW / THEN logic

MJOS-20260924-SOLAR-TEAL | New project sequence · proposed bindings

Solar Systems / Teal

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IF / HOW / THEN

IF

The purpose, inputs, units, evidence origin and current profile are declared.

HOW

Bind the source identity, compare only eligible observations, preserve uncertainty and review the evidence ceiling.

THEN

Return a scoped result, HOLD for missing evidence, or DENY for a failed permission boundary.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- Applications are separate profiles; one calculation does not qualify a different physical application.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- Applications are separate profiles; one calculation does not qualify a different physical application.

Lecanto - IF / HOW / THEN logic

MJOS-20260924-LECANTO-TEAL | New project sequence · proposed bindings

Lecanto / Teal

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IF / HOW / THEN

IF

The purpose, inputs, units, evidence origin and current profile are declared.

HOW

Bind the source identity, compare only eligible observations, preserve uncertainty and review the evidence ceiling.

THEN

Return a scoped result, HOLD for missing evidence, or DENY for a failed permission boundary.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- Normalized drawings are not physical dimensions or approved coordinates.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- Normalized drawings are not physical dimensions or approved coordinates.

Quantum Systems - IF / HOW / THEN logic

MJOS-20260924-QUANTUM-SYSTEMS-TEAL | New project sequence · proposed bindings

Quantum Systems / Teal

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IF / HOW / THEN

IF

The purpose, inputs, units, evidence origin and current profile are declared.

HOW

Bind the source identity, compare only eligible observations, preserve uncertainty and review the evidence ceiling.

THEN

Return a scoped result, HOLD for missing evidence, or DENY for a failed permission boundary.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- A project label or simulation does not demonstrate quantum hardware, entropy performance or physical validation.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- A project label or simulation does not demonstrate quantum hardware, entropy performance or physical validation.

Early Works - IF / HOW / THEN logic

MJOS-20260924-EARLY-WORKS-TEAL | New project sequence · proposed bindings

Early Works / Teal

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IF / HOW / THEN

IF

The purpose, inputs, units, evidence origin and current profile are declared.

HOW

Bind the source identity, compare only eligible observations, preserve uncertainty and review the evidence ceiling.

THEN

Return a scoped result, HOLD for missing evidence, or DENY for a failed permission boundary.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- Historic test counts and frozen source identities remain dated evidence, not fresh verification.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- Historic test counts and frozen source identities remain dated evidence, not fresh verification.

BarTide and Tide Casa onboarding - IF / HOW / THEN logic

MJOS-20260924-BARTIDE-ONBOARDING-TEAL | New project sequence · proposed bindings

BarTide and Tide Casa onboarding / Teal

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IF / HOW / THEN

IF

Identity is verified, requested plan is admitted and no conflicting ownership exists.

HOW

Validate fields; bind user and tenant in a transaction; preserve existing ownership.

THEN

Create or return draft workspace; conflicting ownership holds for review.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- One-workspace-per-account behavior is explicit in source.
- Creating a draft does not publish a restaurant or activate payments.
- No end-to-end onboarding execution in this review.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- One-workspace-per-account behavior is explicit in source.
- Creating a draft does not publish a restaurant or activate payments.
- No end-to-end onboarding execution in this review.

SOURCE REFERENCES

[WorkspaceRegistrationStore.cs](#)

[TenantStaffAccess.cs](#)

BarTide ordering and menu - IF / HOW / THEN logic

MJOS-20260924-BARTIDE-ORDERING-TEAL | New project sequence · proposed bindings

BarTide ordering and menu / Teal

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IF / HOW / THEN

IF

The tenant menu, fulfillment mode and quote fingerprint remain current.

HOW

Compute whole-cent totals from server data; validate quantities, capacity, requests and repeat operation identity.

THEN

Issue one receipt or return a version/quote conflict; never infer payment from order creation.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- Per-serving variants are not separate cart lines in current phase-two documentation.
- No source evidence of automatic route optimization.
- Fictional Gulf Lantern demo does not establish actual business outcomes.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- Per-serving variants are not separate cart lines in current phase-two documentation.
- No source evidence of automatic route optimization.
- Fictional Gulf Lantern demo does not establish actual business outcomes.

SOURCE REFERENCES

[RestaurantOrderingStore.cs](#)

[RestaurantOrdering.cs](#)

[DELIVERY-PHASE-TWO.md](#)

BarTide delivery and driver operations - IF / HOW / THEN logic

MJOS-20260924-BARTIDE-DRIVER-TEAL | New project sequence · proposed bindings

BarTide delivery and driver operations / Teal

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IF / HOW / THEN

IF

An assigned active driver or authorized manager requests a legal transition against the current version.

HOW

Validate membership, assignment, status, reason for override and operation identity.

THEN

Record one accountable delivery transition; outstanding payment remains outstanding.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- Native/background driver app and external delivery provider phases remain paused.
- Driver confirmation is not payment/refund authority.
- No route optimization claim.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- Native/background driver app and external delivery provider phases remain paused.
- Driver confirmation is not payment/refund authority.
- No route optimization claim.

SOURCE REFERENCES

[RestaurantDeliveryWorkflow.cs](#)

[DELIVERY-PHASE-ONE.md](#)

BarTide foreground delivery location - IF / HOW / THEN logic

MJOS-20260924-BARTIDE-LOCATION-TEAL | New project sequence · proposed bindings

BarTide foreground delivery location / Teal

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IF / HOW / THEN

IF

The current session is consensual, assigned, active and in the admitted real/simulated mode.

HOW

Bind coordinates to session, sequence, accuracy and acquisition time; recheck permissions and age.

THEN

Expose only the customer's active leg; hold stale/unknown location and stop sharing after invalidation.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- No background service, promised ETA, offline replay or route history.
- Physical iOS/Android GPS and poor-network field trials remain unverified in current documentation.
- Private deployment requires its own table policy; public-demo policy must not be reused unchanged.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- No background service, promised ETA, offline replay or route history.
- Physical iOS/Android GPS and poor-network field trials remain unverified in current documentation.
- Private deployment requires its own table policy; public-demo policy must not be reused unchanged.

SOURCE REFERENCES

[RestaurantDeliveryLocation.cs](#)

[DeliveryLocationSchema.cs](#)

[DELIVERY-PHASE-TWO.md](#)

BarTide staff scheduling and training - IF / HOW / THEN logic

MJOS-20260924-BARTIDE-STAFF-TEAL | New project sequence · proposed bindings

BarTide staff scheduling and training / Teal

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IF / HOW / THEN

IF

The staff member is active and the acting user may manage the tenant.

HOW

Validate shift interval/non-overlap or course version/assignment; preserve source identity.

THEN

Save an explicit schedule or learning record; incomplete evidence does not certify proficiency.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- Training checkmarks are stored completion state, not independent proof of skill.
- Shift management exists; no optimizer or external calendar synchronization established.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- Training checkmarks are stored completion state, not independent proof of skill.
- Shift management exists; no optimizer or external calendar synchronization established.

SOURCE REFERENCES

[StaffTraining.cs](#)

[StaffTrainingStore.cs](#)

BarTide customer and staff rewards - IF / HOW / THEN logic

MJOS-20260924-BARTIDE-REWARDS-TEAL | New project sequence · proposed bindings

BarTide customer and staff rewards / Teal

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IF / HOW / THEN

IF

The evidence belongs to the correct tenant/customer and rule version.

HOW

Count admitted eligible history as of the declared time; distinguish duplicate from conflicting sources.

THEN

Return eligibility only; issuance and redemption require separate authorized durable operations.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- Evaluator explicitly does not authorize, issue or redeem a reward.
- Durable issuance must enforce uniqueness independently.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- Evaluator explicitly does not authorize, issue or redeem a reward.
- Durable issuance must enforce uniqueness independently.

SOURCE REFERENCES

[RewardEvaluator.cs](#)

[Rewards.cs](#)

BarTide events and reservations - IF / HOW / THEN logic

MJOS-20260924-BARTIDE-EVENTS-TEAL | New project sequence · proposed bindings

BarTide events and reservations / Teal

MJos Predictive Model | First manifestation of the Bangel Language

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IF / HOW / THEN

IF

A published event and permitted capacity exist, with the current version.

HOW

Bind RSVP/check-in to event, customer, request key and capacity transaction.

THEN

Persist one reservation transition or return held/conflicting status.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- Read contract and module presence only; complete event behavior not freshly exercised.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- Read contract and module presence only; complete event behavior not freshly exercised.

SOURCE REFERENCES

[Events.cs](#)

[EventsStore.cs](#)

BarTide business posts and private media - IF / HOW / THEN logic

MJOS-20260924-BARTIDE-POSTS-MEDIA-TEAL | New project sequence · proposed bindings

BarTide business posts and private media / Teal

MJos Predictive Model | First manifestation of the Bangel Language

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IF / HOW / THEN

IF

The actor can publish the tenant's content and recipients have relevant consent.

HOW

Validate content/version, access policy, subscription binding and durable outbox identity.

THEN

Publish or enqueue only the authorized content; hold missing consent or unavailable delivery evidence.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- No notification was sent and no media access was exercised in this review.
- Publication rights and push consent require actual current authorization.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- No notification was sent and no media access was exercised in this review.
- Publication rights and push consent require actual current authorization.

SOURCE REFERENCES

[BusinessPosts.cs](#)

[BusinessPostsOutbox.cs](#)

[PrivateObjectStore.cs](#)

Stripe API - Tide Casa service billing - IF / HOW / THEN logic

MJOS-20260924-STRIPE-SERVICE-BILLING-TEAL | New project sequence · proposed bindings

Stripe API - Tide Casa service billing / Teal

MJos Predictive Model | First manifestation of the Bangel Language

MJ Physics Engineering | Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN

IF

The customer accepts current terms and an unchanged quote, with the appropriate billing environment enabled.

HOW

Bind checkout snapshot, account, price, method configuration and request ID; reconcile signed invoice evidence.

THEN

Persist the invoice/subscription status; never treat a redirect or advisory forecast as payment.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- Distinct from merchant payments, which are currently test-only.
- Source ability to configure live is not evidence live billing is activated.
- No subscriptions were created or changed.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- Distinct from merchant payments, which are currently test-only.
- Source ability to configure live is not evidence live billing is activated.
- No subscriptions were created or changed.

SOURCE REFERENCES

[ServiceBillingProvider.cs](#)

[ServiceBillingReconciliation.cs](#)

[ServiceBilling.cs](#)

Tide Casa sales, referrals and launch review - IF / HOW / THEN logic

MJOS-20260924-BARTIDE-SALES-REFERRALS-TEAL | New project sequence · proposed bindings

Tide Casa sales, referrals and launch review / Teal

MJos Predictive Model | First manifestation of the Bangel Language

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IF / HOW / THEN

IF

The actor owns the sales or launch-review role and the data is current.

HOW

Track lead state and referral evidence with request keys, versions and approved workspace binding.

THEN

Return accountable business status; publication follows its separate review gate.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- Private prospects/data excluded from repo per README.
- A stored follow-up date is not evidence an external reminder/message is scheduled.
- Public content should not include private lead records.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- Private prospects/data excluded from repo per README.
- A stored follow-up date is not evidence an external reminder/message is scheduled.
- Public content should not include private lead records.

SOURCE REFERENCES

[SalesPipeline.cs](#)

[Referrals.cs](#)

[LaunchReviewStore.cs](#)

MJ Decision Layer and recovery - IF / HOW / THEN logic

MJOS-20260924-MJ-DECISION-TEAL | New project sequence · proposed bindings

MJ Decision Layer and recovery / Teal

MJos Predictive Model | First manifestation of the Bangel Language

MJ Physics Engineering | Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN

IF

Required reviews, liveness, forecast and downstream gates are present and current.

HOW

Apply gate precedence, bounded rankings and progress-aware recovery with durable operation identities.

THEN

Select an advisory or HOLD/DENY; ambiguous external completion remains held.

EVIDENCE GATES

Bind the request to its exact source/profile and permitted scope. Validate required fields and units before comparison. Preserve UNKNOWN and reject incompatible or stale evidence. A failed authority check remains DENY; absent supporting evidence remains HOLD.

PROJECT-SPECIFIC CONSTRAINTS

- SELECTED identifies an advisory candidate; no financial or physical permission.
- Missing independent gates HOLD.
- Recovery does not retry uncertain external effects and cannot convert predicted data into observed evidence.

RECONCILIATION

Store the actual result separately from a later outcome. Append discrepancies without changing the earlier prediction or receipt. This is a newly authored documentary logic contract, not a report of an executed Bangel adapter.

EVIDENCE LIMITS

- SELECTED identifies an advisory candidate; no financial or physical permission.
- Missing independent gates HOLD.
- Recovery does not retry uncertain external effects and cannot convert predicted data into observed evidence.

SOURCE REFERENCES

[README.md](#)

[MJ-NEURAL-L5-CONTRACT.md](#)

[decision.bangel](#)

Teal / Project completeness

114 additional project profiles

Bangel is the language; MJos is the operating system. The MJos Predictive Model retains its distinct project identity. Elsa is the compiler, JP admission is independent, and Joanna handles admitted execution and processing.

These papers reconcile recovered source definitions, historical discussions and expressly requested profiles. Source status and proposed language contracts remain explicit. Gold and Indigo follow recovered overview rules; they are new reconstructions. White papers are excluded.

This local review edition does not establish deployed software, validated physical performance or clinical capability. Original private chat transcripts are not included.

Elsa Compiler - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-ELSA-COMPILER-TEAL | Source-backed documentary sequence — execution not rerun

Elsa Compiler / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

The source unit declares its Bangel grammar, dependencies and effects, and its exact bytes are available.

HOW

Parse source, resolve names and modules, check types, units and effects, then lower accepted syntax to the declared JP representation. Preserve source spans and precise diagnostics on refusal.

THEN

Return typed JP-IR or a compile refusal. Compilation does not admit execution or grant MJ permission.

TYPED EVIDENCE

- SourceText: UTF-8 Bangel source
- GrammarProfile: explicit version
- Effects: declared closed set
- CompileResult: JP-IR or source-spanned diagnostic

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

An unresolved name, incompatible unit or prohibited recursion must yield its contract diagnostic rather than usable admitted IR.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Elsa/1; ELSA-SEMANTICS

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Current source inspected; these documentary bindings do not report newly executed software or physical tests.

Recovered status: implementation_source.

Use only the exact named source scope; a documentary sequence is not deployment or an authority grant.

SOURCE REFERENCES

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- [language/python/src/bangel/compiler.py · line 59](#)

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/language/python/src/bangel/compiler.py#L59>

- [specs/roles/ROLE-CONTRACT-RECONCILIATION.md · line 14](#)

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/roles/ROLE-CONTRACT-RECONCILIATION.md#L14>

- Recovered nonwhite collection, page 1375

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1375>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Compiles Bangel source and checks its meaning before producing the typed representation consumed by JP and Joanna.

SOURCE REFERENCES

[language/python/src/bangel/compiler.py · line 59](#)

[specs/roles/ROLE-CONTRACT-RECONCILIATION.md · line 14](#)

[Recovered nonwhite collection, page 1375](#)

JP Representation - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-JP-REPRESENTATION-TEAL | Source-backed documentary sequence — execution not rerun

JP Representation / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
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IF / HOW / THEN CONTRACT

IF

A representation declares its own protocol, canonical bytes, source lineage, types and bounded effects.

HOW

Independently check the closed envelope, canonical digest, types, cross-field relationships and resource limits. Keep JP-IR/1, JP-CIR and proposed architecture profiles separate.

THEN

Return admission evidence for the exact representation. A digest match establishes identity, not semantic admission or permission.

TYPED EVIDENCE

- RepresentationProfile: JP-IR/1 or separately named profile
- CanonicalBytes: exact serialization
- SourceDigest: SHA-256
- AdmissionResult: accepted or rejected with reason

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Recompute a digest after mutating an authority, type or effects field; inconsistent content must still fail independent admission.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

JP; JP-IR/1; JP-CANON

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Current source inspected; these documentary bindings do not report newly executed software or physical tests.

Recovered status: implementation_source_and_distinct_proposals.

Do not flatten older domain-specific JP compiler roles or JP-CIR/architecture profiles into the general representation contract.

SOURCE REFERENCES

MJ Physics Engineering | Bangel Language | MJos Operating System
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- specs/roles/ROLE-CONTRACT-RECONCILIATION.md · line 15

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/roles/ROLE-CONTRACT-RECONCILIATION.md#L15>

- Recovered nonwhite collection, page 1302

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1302>

- Recovered nonwhite collection, page 1376

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1376>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Typed representation, admission and validation boundary between language compilation and runtime execution.

SOURCE REFERENCES

[specs/roles/ROLE-CONTRACT-RECONCILIATION.md · line 15](#)

[Recovered nonwhite collection, page 1302](#)

[Recovered nonwhite collection, page 1376](#)

Joanna Processing - IF / HOW / THEN logic

MJPE-COMplete-20260925-JOANNA-RUNTIME-TEAL | Source-backed documentary sequence — execution not rerun

Joanna Processing / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
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IF / HOW / THEN CONTRACT

IF
Independent admission accepted the exact JP representation and execution has a declared input binding and resource budget.

HOW

Execute bounded Joanna operations while preserving typed unknowns, stage evidence and runtime-limit failures.

THEN

Return a digest-bound computation receipt with its actual status. HOLD stays visible even when a command exits successfully; the receipt is not action permission.

TYPED EVIDENCE

- AdmittedIR: independently verified JP
- RuntimeBudget: bounded resource declaration
- InputBinding: typed values and source roots
- Receipt: actual status and execution identity

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

An exhausted budget, missing measurement or unadmitted representation must not become an unrestricted successful effect.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Joanna/1; Joanna-Receipt/1; Joanna Processing; Joanna compilation processing
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Current source inspected; these documentary bindings do not report newly executed software or physical tests.

Recovered status: implementation_source.

Use only the exact named source scope; a documentary sequence is not deployment or an authority grant.

SOURCE REFERENCES

- language/python/src/bangel/runtime.py · line 28

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/language/python/src/bangel/runtime.py#L28>

- specs/roles/ROLE-CONTRACT-RECONCILIATION.md · line 16

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/roles/ROLE-CONTRACT-RECONCILIATION.md#L16>

- language/python/src/bangel/identity.py · line 14

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/language/python/src/bangel/identity.py#L14>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Executes admitted Bangel programs and records outcomes and reconciliation evidence.

SOURCE REFERENCES

[language/python/src/bangel/runtime.py · line 28](#)

[specs/roles/ROLE-CONTRACT-RECONCILIATION.md · line 16](#)

[language/python/src/bangel/identity.py · line 14](#)

JO Proof and Verification - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-JO-PROOF-TEAL | Source-backed documentary sequence — execution not rerun

JO Proof and Verification / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
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IF / HOW / THEN CONTRACT

IF

A historical JO obligation names the type, formula, evidence or bounded execution assertion being reviewed.

HOW

Compare evidence with that precise assertion and retain its source-profile meaning. Link runtime lineage to Joanna without equating every historical JO proof role with current execution.

THEN

Return a scoped verification record, HOLD for missing evidence or DENY for a failed permission boundary.

TYPED EVIDENCE

- ProofScope: named historical contract
- TypedCAPO: exact representation identity
- EvidenceSet: assertion-bound artifacts
- VerificationReceipt: result and unresolved prerequisites

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

A receipt for a different formula or profile must not satisfy this obligation without an explicit verified mapping.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

JO; JO-RUNTIME; JO_PROOF_RECEIPT

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_historical_reference.

Do not state that every JO verification meaning is identical to Joanna execution.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1304

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1304>

- Recovered nonwhite collection, page 7062

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=7062>

- Recovered nonwhite collection, page 1378

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1378>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1304](#)

[Recovered nonwhite collection, page 7062](#)

[Recovered nonwhite collection, page 1378](#)

MJ Governing Root - IF / HOW / THEN logic

MJPE-COMplete-20260925-MJ-GOVERNING-ROOT-TEAL | Source-backed documentary sequence — execution not rerun

MJ Governing Root / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

A requested effect has a declared purpose, reviewed evidence and an applicable implemented admission profile.

HOW

Reconcile participant results and resource bounds at the MJ boundary. Preserve refusals and missing prerequisites; umbrella metadata does not implement a root kernel, CAPO bus or lease ledger.

THEN

Record the bounded decision supported by the implemented profile, or HOLD the proposed host behavior while its contract remains incomplete.

TYPED EVIDENCE

- Purpose: declared governing scope
- EvidencePacket: participant receipts
- ResourceLease: bounded proposed allocation
- Decision: scoped permit, hold or deny

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Without the applicable lease or final admission evidence, a participant PASS must not substitute for MJ admission.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJ root; MJ.23.R2.ACT

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_profile_partial_integration.

The metadata alone does not establish a completed root kernel, CAPO bus or lease ledger.

SOURCE REFERENCES

MJ Physics Engineering | Bangel Language | MJos Operating System

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- specs/roles/ROLE-CONTRACT-RECONCILIATION.md · line 17

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/roles/ROLE-CONTRACT-RECONCILIATION.md#L17>

- Recovered nonwhite collection, page 1299

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1299>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Governs whether an independently validated action may proceed; prediction does not grant execution authority.

SOURCE REFERENCES

[specs/roles/ROLE-CONTRACT-RECONCILIATION.md · line 17](#)

[Recovered nonwhite collection, page 1299](#)

Bangel Robotics - IF / HOW / THEN logic

MJPE-COMplete-20260925-BANGEL-ROBOTICS-TEAL | Source-backed documentary sequence — execution not rerun

Bangel Robotics / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

A robotics measurement declares quantity, units, coordinate frame, acquisition context and source profile.

HOW

Express bounded measurement logic in Bangel; Elsa compiles, JP admission checks the representation and Joanna provides computation evidence. Distinguish observed state, simulation and planned hardware bindings.

THEN

Return a measurement or advisory with uncertainty. Physical actuation requires a separate evidenced host contract.

TYPED EVIDENCE

- Observation: value or UNKNOWN with unit
- AcquisitionTime: timestamp and clock domain
- RobotContext: declared coordinate frame
- Advisory: result, uncertainty and effect boundary

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

A missing observation or changed coordinate frame without a transform must remain a typed error or HOLD.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel Robotics Programming Language

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Current source inspected; these documentary bindings do not report newly executed software or physical tests.

Recovered status: implementation_source_domain_identity.

Software calculations and receipts do not establish a physical robot or actuation backend.

SOURCE REFERENCES

- README.md · line 1

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/README.md#L1>

- language/python/src/bangel/identity.py · line 6
<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/language/python/src/bangel/identity.py#L6>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Applies the measurement language to robotics examples with explicit PASS, HOLD and missing-measurement behavior.

SOURCE REFERENCES

[README.md · line 1](#)

[language/python/src/bangel/identity.py · line 6](#)

Teal Robotics - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-TEAL-ROBOTICS-TEAL | Source-backed documentary sequence — execution not rerun

Teal Robotics / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
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IF / HOW / THEN CONTRACT

IF

A simulation or shadow-control proposal matches the preserved minority-risk profile and required gate evidence is available.

HOW

Apply the preserved Bangel risk source and near-miss templates through Elsa, independent JP admission and Joanna. Keep source hashes, thresholds and independent vetoes explicit.

THEN

Return the bounded proposal gate result. No continuous-time control-barrier proof, physical actuation or live-trading capability is inferred.

TYPED EVIDENCE

- Proposal: preserved shadow-control schema
- MinorityRisk: PMOS-MINORITY-GATE/1 input
- IndependentReview: separately bound verdict
- GateOutcome: PASS, HOLD or DENY

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

A known near miss or absent independent review must not be bypassed by an attractive forecast.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Teal Robotics Verified Control Barrier Function; PMOS-MINORITY-GATE/1
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Current source inspected; these documentary bindings do not report newly executed software or physical tests.

Recovered status: implementation_source.

The manifest explicitly says no completed independent family runtime, no continuous-time CBF proof, no live trading and no physical actuation.

SOURCE REFERENCES

MJ Physics Engineering | Bangel Language | MJos Operating System
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- plugins/mj_predictive/src/mj_predictive/_teal/PLUGIN.json · line 1
https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/plugins/mj_predictive/src/mj_predictive/_teal/PLUGIN.json#L1

SOURCE REFERENCES

[plugins/mj_predictive/src/mj_predictive/_teal/PLUGIN.json · line 1](#)

Bangel Native SDK - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-BANGEL-NATIVE-SDK-TEAL | Source-backed documentary sequence — execution not rerun

Bangel Native SDK / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

A C# host supplies Bangel source and explicitly selects a managed compiler or separate reference-process client.

HOW

Use the syntax, semantics, Elsa compiler, admission, Joanna runtime and numerics boundaries; bind results to the actual package and source revision.

THEN

Return typed diagnostics or an admitted computation receipt. Documentation alone does not establish a fresh .NET build or cross-host parity.

TYPED EVIDENCE

- SourceText: filename and Bangel content
- CompilerInterface: IElsaCompiler
- CompilationResult: typed IR or diagnostic
- ManagedReceipt: source-bound Joanna result

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Compile an incompatible-unit example and inspect its diagnostic; establish native execution only with fresh package hashes and results.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel.Sdk; Bangel for C# and .NET

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Current source inspected; these documentary bindings do not report newly executed software or physical tests.

Recovered status: implementation_source.

Use only the exact named source scope; a documentary sequence is not deployment or an authority grant.

SOURCE REFERENCES

MJ Physics Engineering | Bangel Language | MJos Operating System

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- language/dotnet/README.md · line 7

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/language/dotnet/README.md#L7>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Managed compiler/runtime integration, SDK, command-line tools and a bounded C# translation surface.

SOURCE REFERENCES

[language/dotnet/README.md · line 7](#)

Bangel API - IF / HOW / THEN logic

MJPE-COMplete-20260925-BANGEL-API-TEAL | Source-backed documentary sequence — execution not rerun

Bangel API / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

A client selects a supported API operation and provides its required source or representation fields.

HOW

Validate the closed request schema, retain exact compiler/runtime protocol identities and return the relevant source-bound result. Host access and transport policy remain separate.

THEN

Return a typed response or rejection; interface discovery does not establish a public production service.

TYPED EVIDENCE

- Protocol: BANGEL-API/1
- Request: closed operation envelope
- ProgramIdentity: source digest
- Response: typed result or diagnostic

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Reject unknown protocols and extra fields rather than silently treating them as compatible current requests.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

BANGEL-API/1

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Current source inspected; these documentary bindings do not report newly executed software or physical tests.

Recovered status: implementation_source.

Use only the exact named source scope; a documentary sequence is not deployment or an authority grant.

SOURCE REFERENCES

- language/python/src/bangel/identity.py · line 11

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/language/python/src/bangel>

/identity.py#L11

SOURCE REFERENCES

language/python/src/bangel/identity.py · line 11

MJPS Thermodynamics - IF / HOW / THEN logic

MJPE-COMplete-20260925-BANGEL-THERMOELECTRIC-TEAL | Source-backed documentary sequence — execution not rerun

MJPS Thermodynamics / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

A thermoelectric reference program declares its 0.1 domain grammar and bounded module, observation and demand inputs.

HOW

Apply the profile's steady thermoelectric calculations and proposal logic, preserving unknown temperatures, calibration evidence and its separate IR/receipt contract.

THEN

Return a simulation proposal or HOLD with physical and authority effects NONE. This does not establish a physical controller or the full general-language grammar.

TYPED EVIDENCE

- Profile: Bangel 0.1 MJPS
- Temperature: expected, anticipated or delivered
- Calibration: verified or unverified
- ProposalReceipt: PASS_PROPOSAL or HOLD

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Unknown temperature and unverified calibration must remain HOLD rather than physical control commands.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJPS; Bangel Measurement Reference; Bangel Thermoelectric Reference; MJPS thermodynamic

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Current source inspected; these documentary bindings do not report newly executed software or physical tests.

Recovered status: implementation_source.

No physical controller, board backend or actuation is established.

SOURCE REFERENCES

- components/thermoelectric-reference/README.md · line 1

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/components/thermoelectric-reference/README.md#L1>

- components/thermoelectric-reference/README.md · line 31

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/components/thermoelectric-reference/README.md#L31>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Package-native thermoelectric simulation combining Seebeck harvesting, Peltier heat pumping, uncertainty and bounded thermal/electrical optimization.
- Historical 0.2 package; physical effect and authority effect remained NONE, global JP acceptance MERGE_CANDIDATE, and bench/HIL/field gates remained held.
- Historical evidence has not been rerun in this discovery pass.

SEPARATE HISTORICAL CONTRACT OUTLINE

- ThermalBoundary — module and operating conditions
- ThermoelectricModel — Seebeck/Peltier parameters
- UncertaintyEnvelope — bounded temperature and model inputs
- SimulationReceipt — result, assumptions and effect ceiling

IF

A thermoelectric module is evaluated under declared thermal and electrical conditions.

HOW

Apply the documented package formulas and uncertainty bounds, keeping steady and transient coverage distinct.

THEN

Return the bounded simulation result and retain the separate hardware-validation requirements.

This historical outline is separate from the current-source contract above. It does not establish native integration or newly executed results.

SOURCE REFERENCES

<components/thermoelectric-reference/README.md> · line 1

<components/thermoelectric-reference/README.md> · line 31

MJmri MRI Imaging - IF / HOW / THEN logic

MJPE-COMplete-20260925-MJMRI-TEAL | Source-backed documentary sequence — execution not rerun

MJmri MRI Imaging / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
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IF / HOW / THEN CONTRACT

IF

A non-clinical imaging research case declares its source artifacts, units, profile and intended bounded calculation.

HOW

Preserve MRI measurement and DICOM interoperability obligations. Treat domain forms as research contracts until Elsa integration, representation generation and Joanna processing are demonstrated.

THEN

Return a documentary case or bounded research proposal, preserving unknowns and implementation gaps. No diagnosis, patient release or MRI hardware control is created.

TYPED EVIDENCE

- ResearchCase: source identity and evidence class
- Quantity: semantic unit and uncertainty
- Profile: authored MJMRI version
- ClinicalUse: false

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Camera-derived images and unexecuted fixtures must not be promoted to genuine MR acquisition or clinical evidence.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJmri; JP-IR/MJMRI-1; MJMRI; MJmri MRI imaging
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

An authored research contract or fixture is recovered. Native implementation and execution remain separate obligations.
Recovered status: authored_candidate.
Non-clinical research only; recovered authored fixtures do not establish native execution or patient use.

SOURCE REFERENCES

- specs/recovered/BANGEL-0.1-MJMRI-NATIVE-PROFILE.md · line 1

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/recovered/BANGEL-0.1-MJMRI-NATIVE-PROFILE.md#L1>

- docs/history/b01/BANGEL-PROFILE-AUDIT.md · line 7

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/docs/history/b01/BANGEL-PROFILE-AUDIT.md#L7>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Named domain family included in the shared MJPS and Drum Sequencer registry.

- Historical scope: Mobile MRI access, representation, DICOM/FHIR interoperability and research reconstruction lineage.

Cumulative 0.3 optical/mobile package was authored/reference work; native toolchain/device execution and clinical validation remained pending.

- Native JP compiler runs were explicitly zero at B02–B10; current Elsa/profile reconciliation remains unresolved.

- Phone optical pixels, inferred surface geometry, synthetic anatomy priors and genuine MR evidence remain distinct.

- B21–B25 continuation was requested but no resulting implementation was recovered.

SOURCE REFERENCES

<specs/recovered/BANGEL-0.1-MJMRI-NATIVE-PROFILE.md> · line 1

<docs/history/b01/BANGEL-PROFILE-AUDIT.md> · line 7

MJMRI Optical Research - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-MJMRI-OPTICAL-TEAL | Source-backed documentary sequence — execution not rerun

MJMRI Optical Research / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

An optical frame has a source identity and is explicitly classified as camera evidence.

HOW

Retain original pixels, label transformations and distinguish inferred surface geometry, synthetic anatomy priors and genuine MR evidence. Abstain beyond the input's evidence class.

THEN

Return a labeled optical or surface-research artifact, without claiming unseen anatomy, MR signal or a clinical result.

TYPED EVIDENCE

- OpticalFrame: pixels and acquisition metadata
- EvidenceClass: optical, inferred surface, synthetic prior or MR
- Transform: disclosed source-preserving operation
- Output: non-clinical research representation

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

A synthetic optical fixture must retain its class rather than being relabeled as acquired MR.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJMRI Mobile Optical Research

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

An authored research contract or fixture is recovered. Native implementation and execution remain separate obligations.

Recovered status: authored_candidate.

Use only the exact named source scope; a documentary sequence is not deployment or an authority grant.

SOURCE REFERENCES

- specs/recovered/BANGEL-0.1-MJMRI-MOBILE-OPTICAL-RESEARCH-PROFILE.md · line 1

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/recovered/BANGEL->

SOURCE REFERENCES

specs/recovered/BANGEL-0.1-MJMRI-MOBILE-OPTICAL-RESEARCH-PROFILE.md · line 1

Cubix - IF / HOW / THEN logic

MJPE-COMplete-20260925-CUBIX-TEAL | Source-backed documentary sequence — execution not rerun

Cubix / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
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IF / HOW / THEN CONTRACT

IF
A spatial cell declares its source frame, pixel bounds, grid index and parent resolution.

HOW
Bind cell/node points to the same source root, validate bounds and preserve multiresolution lineage without extending observation below validated resolution.

THEN
Return a rooted external-scene cell or HOLD invalid lineage or bounds. The cell does not identify unseen tissue.

TYPED EVIDENCE

- SourceRoot: image identity
- PixelBounds: validated interval
- GridIndex: multiresolution cell
- CellLineage: parent and source references

FAILURE AND MISSINGNESS
Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE
A changed source root or out-of-bounds cell must not be accepted as the same observed scene.

RECONCILIATION
Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES
MJMRI-CUBIX-GRID/1
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS
An authored research contract or fixture is recovered. Native implementation and execution remain separate obligations.
Recovered status: authored_contract.
Use only the exact named source scope; a documentary sequence is not deployment or an authority grant.

SOURCE REFERENCES

- specs/recovered/BANGEL-0.1-MJMRI-MOBILE-OPTICAL-RESEARCH-PROFILE.md · line 22

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/recovered/BANGEL->

SOURCE REFERENCES

specs/recovered/BANGEL-0.1-MJMRI-MOBILE-OPTICAL-RESEARCH-PROFILE.md · line 22

MJ Memory Kernel Adapters - IF / HOW / THEN logic

MJPE-COMplete-20260925-MJ-MEMORY-KERNEL-TEAL | Source-backed documentary sequence — execution not rerun

MJ Memory Kernel Adapters / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

A memory operation addresses an explicit namespace, frame, generation and allowed lifecycle transition.

HOW

Apply Bangel transition/access rules through Elsa, independent JP admission and Joanna; bind stored evidence to checkpoints, retain prior generations and assess updates using held-out evidence.

THEN

Return a lifecycle receipt or non-installing update assessment. No stage is skipped, old ID reused or model automatically installed.

TYPED EVIDENCE

- Namespace: bound memory context
- Generation: monotonic identifier
- Lifecycle: QUIESCE, SEAL, CHECKPOINT, DETACH, RECLAIM
- Checkpoint: canonical source-bound hash

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Reject reclaim before a valid checkpoint and checkpoints from another namespace without deleting retained records.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Self-healing kernel adapter; MJ-Memory-Update/0.1.0

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Current source inspected; these documentary bindings do not report newly executed software or physical tests.

Recovered status: implementation_source.

Not a bootable operating-system kernel or automatic model installer.

SOURCE REFERENCES

MJ Physics Engineering | Bangel Language | MJos Operating System

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- plugins/mj_memory_recall/docs/KERNEL.md · line 1

https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/plugins/mj_memory_recall/docs/KERNEL.md#L1

- plugins/mj_memory_recall/docs/KERNEL.md · line 19

https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/plugins/mj_memory_recall/docs/KERNEL.md#L19

SOURCE REFERENCES

[plugins/mj_memory_recall/docs/KERNEL.md · line 1](#)

[plugins/mj_memory_recall/docs/KERNEL.md · line 19](#)

MJ Football Playbook - IF / HOW / THEN logic

MJPE-COMplete-20260925-MJ-FOOTBALL-PLAYBOOK-TEAL | Source-backed documentary sequence — execution not rerun

MJ Football Playbook / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

A recall query supplies the original frame, an eligible playbook selection and available command-history context.

HOW

Compare bounded episodic candidates and project source-backed geometry, preserving entity/relationship/context conflicts, curves and observation chronology.

THEN

Return a physics-play analysis projection with its evidence or HOLD a context mismatch. Similarity is not calibrated probability or coaching approval.

TYPED EVIDENCE

- SelectionId: original playbook identity
- SchematicFrame: declared bounds
- CurveGeometry: source points and curves
- RecallResult: candidate, similarity and uncertainty

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Another coordinate frame or a later-unavailable observation must not enter the current recall decision.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJ-Playbook-Projection/0.1.0

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Current source inspected; these documentary bindings do not report newly executed software or physical tests.

Recovered status: implementation_source.

Use only the exact named source scope; a documentary sequence is not deployment or an authority grant.

SOURCE REFERENCES

- plugins/mj_memory_recall/README.md · line 1

https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/plugins/mj_memory_recall/README.md#L1

- plugins/mj_memory_recall/README.md · line 53

https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/plugins/mj_memory_recall/README.md#L53

RECOVERED HISTORICAL CONTEXT

- Historical scope: Maps football playbook geometry and actor paths into comparative prediction and neural node-space overlays.

SOURCE REFERENCES

[plugins/mj_memory_recall/README.md · line 1](#)

[plugins/mj_memory_recall/README.md · line 53](#)

MJ EGO REV - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-MJ-EGO-REV-TEAL | Source-backed documentary sequence — execution not rerun

MJ EGO REV / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

An energy-model request declares source classes, units, uncertainty, tolerances and current transition mode.

HOW

Follow indexed Bangel energy-ledger and transition rules, preserve missing quantities and append source-bound receipts. Native/Bangel equivalence requires separate evidence.

THEN

Return a bounded energy or transition outcome; a source index does not demonstrate a physical energy device.

TYPED EVIDENCE

- EnergyEntry: source class and joules or UNKNOWN
- BatteryState: initial, capacity and grid energy
- ThermalState: initial and captured energy
- AuditRecord: prior root, payload and root

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Missing energy and forbidden transitions must stay held or rejected rather than being balanced with invented zeroes.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJ-EGO-REV; Ego.Core

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

The later Teal library indexes named source modules and hashes. Discovery does not establish a fresh build, full integration or physical validation.

Recovered status: source_index_recovered.

Full associated source and fresh native execution were not recovered in this inventory pass.

SOURCE REFERENCES

MJ Physics Engineering | Bangel Language | MJos Operating System

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- Later Teal source index, page 974

https://drive.google.com/file/d/1JytulokwWY5yHnSqcajL_oQQ_jJQEoAx/view#page=974

- Later Teal source index, page 977

https://drive.google.com/file/d/1JytulokwWY5yHnSqcajL_oQQ_jJQEoAx/view#page=977

- Later Teal source index, page 978

https://drive.google.com/file/d/1JytulokwWY5yHnSqcajL_oQQ_jJQEoAx/view#page=978

- Later Teal source index, page 979

https://drive.google.com/file/d/1JytulokwWY5yHnSqcajL_oQQ_jJQEoAx/view#page=979

RECOVERED HISTORICAL CONTEXT

- Historical scope: Vehicle-energy modeling and audit project with Bangel and C# implementation lineage.

SOURCE REFERENCES

[Later Teal source index, page 974](#)

[Later Teal source index, page 977](#)

[Later Teal source index, page 978](#)

[Later Teal source index, page 979](#)

MJos Quantum Security - IF / HOW / THEN logic

MJPE-COMplete-20260925-MJOS-QUANTUM-SECURITY-TEAL | Source-backed documentary sequence — execution not rerun

MJos Quantum Security / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

A research protection event has a declared source, relevant entropy-health evidence and explicit integrity signals.

HOW

Keep entropy health, risk policy, key lifecycle and receipts as distinct indexed components. Separate simulated input, validated external bits and hardware claims.

THEN

Return a documentary protection outcome or hold. Indexed source does not establish measured quantum entropy, certified cryptography or a production guarantee.

TYPED EVIDENCE

- NoisePacket: source and observed bytes
- EntropyHealth: declared bounded tests
- RiskSignals: authentication, traffic and integrity
- KeyEvent: provision, rotation or compromise

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Malformed noise evidence or a compromise signal must not become an unsupported safe-key claim.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

mjos_qs; Quantum Security

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

The later Teal library indexes named source modules and hashes. Discovery does not establish a fresh build, full integration or physical validation.

Recovered status: source_index_recovered.

Index evidence does not establish current cryptographic assurance, hardware certification or quantum security.

SOURCE REFERENCES

MJ Physics Engineering | Bangel Language | MJos Operating System

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TEAL | Project completeness edition | Local review · 2026-09-25

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- Later Teal source index, page 998

https://drive.google.com/file/d/1JytulokwWY5yHnSqcajL_oQQ_jJQEoAx/view#page=998

- Later Teal source index, page 1000

https://drive.google.com/file/d/1JytulokwWY5yHnSqcajL_oQQ_jJQEoAx/view#page=1000

- Later Teal source index, page 1003

https://drive.google.com/file/d/1JytulokwWY5yHnSqcajL_oQQ_jJQEoAx/view#page=1003

- Later Teal source index, page 1006

https://drive.google.com/file/d/1JytulokwWY5yHnSqcajL_oQQ_jJQEoAx/view#page=1006

- Later Teal source index, page 1007

https://drive.google.com/file/d/1JytulokwWY5yHnSqcajL_oQQ_jJQEoAx/view#page=1007

RECOVERED HISTORICAL CONTEXT

- Historical scope: Governed security architecture linking cryptographic migration, artifact integrity, entropy governance, bounded recovery and evidence receipts.

SOURCE REFERENCES

[Later Teal source index, page 998](#)

[Later Teal source index, page 1000](#)

[Later Teal source index, page 1003](#)

[Later Teal source index, page 1006](#)

[Later Teal source index, page 1007](#)

Mika / MK Physics - IF / HOW / THEN logic

MJPE-COMplete-20260925-MIKA-PHYSICS-TEAL | Source-backed documentary sequence — execution not rerun

Mika / MK Physics / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

A JP representation identifies quantities, units, control volume, scale and available measurement evidence.

HOW

Classify applicable physics, check dimensional compatibility and conservation boundaries, and carry uncertainty into the representation. Keep not-applicable distinct from a passed physical test.

THEN

Return a scoped physics representation or unresolved requirement. A valid equation is not a measured physical result.

TYPED EVIDENCE

- Quantity: value, unit and uncertainty
- ControlVolume: declared boundary
- ScaleProfile: explicit scale
- PhysicsReceipt: applicable, not-applicable or HOLD

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Incompatible units or a missing control volume must produce a refusal or HOLD before physical interpretation.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Mika; MK; MK-PHYSICS

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1303

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1303>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1303](#)

Angels Safety - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-ANGELS-SAFETY-TEAL | Source-backed documentary sequence — execution not rerun

Angels Safety / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
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IF / HOW / THEN CONTRACT

IF

A command or state change falls within an Angel's declared domain and required telemetry is available.

HOW

Evaluate domain-specific observation and corrective rules; preserve independent hold/denial decisions and evidence for proposed correction.

THEN

Return a safety receipt. A correction request does not create execution permission or expand the Angel's domain.

TYPED EVIDENCE

- Domain: bounded safety scope
- Telemetry: source and timestamp
- SafetyRule: explicit trigger
- Receipt: observe, hold, deny, isolate or correct

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Stale telemetry or an out-of-domain command must not become safety PASS merely because no fault was detected.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

ANGELS; ANGELS-SAFETY

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1306

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1306>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1306](#)

Bellatrix Defense - IF / HOW / THEN logic

MJPE-COMplete-20260925-BELLATRIX-TEAL | Source-backed documentary sequence — execution not rerun

Bellatrix Defense / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

An intake, custody or execution boundary requires a defense challenge with known scope and evidence identity.

HOW

Inspect integrity, schema, replay and scope evidence using the applicable contract; preserve independent challenge and quarantine outcomes without changing evidence truth.

THEN

Return defense or quarantine evidence. Defense success grants neither general admission nor financial authority.

TYPED EVIDENCE

- Intake: exact source and digest
- Challenge: bounded hostile-deviation check
- Posture: verified, unknown or failed
- QuarantineRecord: reason and scope

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Replay consumed evidence or alter a digest; preserve the rejection/quarantine reason.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

BELLATRIX

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1307

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1307>

- specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md · line 402

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md#L402>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Defense and admission boundary that checks whether a proposed action is safe and permitted before execution.

SOURCE REFERENCES

[Recovered nonwhite collection, page 1307](#)

[specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md · line 402](#)

Sister Prediction and Containment - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-SISTER-TEAL | Source-backed documentary sequence — execution not rerun

Sister Prediction and Containment / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

A monitored profile declares its primary Sister, failure strategy, observations and reserve/containment scope.

HOW

Model demand and anomalies, preserve predictive/simulation classes and propose buffers under the named profile. Keep pending GIN amendment implementation status explicit.

THEN

Return forecast, reserve or containment evidence; HOLD missing or stale bindings. Simulation does not become observation or authorized physical containment.

TYPED EVIDENCE

- StateStream: observations and clocks
- Forecast: source-bound advisory
- ReserveRequest: bounded capacity
- Binding: primary Sister and declared failover

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Removing the primary binding must hold downstream use until the declared failover supplies valid evidence.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

SISTER; SISTER-CONTAINMENT

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: `documented_reference`.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1308

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1308>

- specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md · line 402

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md#L402>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1308](#)

[specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md · line 402](#)

EVE Variance and Egress - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-EVE-TEAL | Source-backed documentary sequence — execution not rerun

EVE Variance and Egress / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

A profile declares its boundary and which intake, capture, leakage or egress quantities are actually observable.

HOW

Account for variance and residuals with units and uncertainty; preserve unmeasured loss as unknown instead of silently closing the balance.

THEN

Return an observation/egress ledger or HOLD incomplete evidence. A residual does not prove its physical cause.

TYPED EVIDENCE

- Boundary: declared control surface
- FlowObservation: intake, capture and egress
- Residual: measured or UNKNOWN with unit
- VarianceLedger: source-bound differences

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

An omitted egress measurement must remain missing rather than disappearing from the balance.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

EVE; EVE-SCREEN

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: `documented_reference`.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

MJ Physics Engineering | Bangel Language | MJos Operating System

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TEAL | Project completeness edition | Local review · 2026-09-25

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- Recovered nonwhite collection, page 1309

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1309>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1309](#)

Mary / M3 Routing - IF / HOW / THEN logic

MJPE-COMplete-20260925-MARY-M3-TEAL | Source-backed documentary sequence — execution not rerun

Mary / M3 Routing / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

An admitted request has an applicable MJ lease and source-backed target capacity.

HOW

Route the request and account for use, pooling and returns within the lease; mediate peer handoffs through the applicable admission boundary.

THEN

Return routing/allocation evidence or HOLD unavailable capacity. M3 cannot mint resources, widen leases or bypass denial.

TYPED EVIDENCE

- AdmittedRequest: exact scope
- MJLease: bounded allocation
- CapacityEvidence: available resources
- ReturnReceipt: used and unused amounts

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Reject or bound a request exceeding its lease, and refuse expired lease reuse.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

M3; Mary

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

MJ Physics Engineering | Bangel Language | MJos Operating System

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- Recovered nonwhite collection, page 1310

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1310>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1310](#)

Mermaid Reconciliation - IF / HOW / THEN logic

MJPE-COMplete-20260925-MERMAID-TEAL | Source-backed documentary sequence — execution not rerun

Mermaid Reconciliation / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A custody/accounting event supplies origin, acquisition record, account scope and required profile evidence.

HOW

Preserve balances, custody lineage and reconciliation history; assess financial implications only within Mermaid's own boundary without redefining measurement mathematics.

THEN

Return a scoped account or reconciliation record with disputes visible. It does not execute a transfer or issue a product permit.

TYPED EVIDENCE

- CustodyReference: acquired evidence identity
- AccountEntry: typed amount and source
- ReconciliationState: explicit disposition
- Statement: source-bound period

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

An unexplained difference or unbound custody reference must remain exposed rather than being erased.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MERMAID; MERMAID-RECON

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

MJ Physics Engineering | Bangel Language | MJos Operating System

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- Recovered nonwhite collection, page 1311

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1311>

- specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md · line 402

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md#L402>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Expresses financial meaning, claims, obligations, valuation and admission within the Bangel ecosystem.

SOURCE REFERENCES

[Recovered nonwhite collection, page 1311](#)

[specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md · line 402](#)

Shiva Capital Models - IF / HOW / THEN logic

MJPE-COMplete-20260925-SHIVA-TEAL | Source-backed documentary sequence — execution not rerun

Shiva Capital Models / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A capital-model request declares purpose, liquidity constraints, account evidence and internal scope.

HOW

Separate stability, investment and risk classifications; preserve reconciliation and independent reviews, treating distributions as model outputs.

THEN

Return a bounded internal proposal or HOLD. No live transfer, market operation or external financial permission is created.

TYPED EVIDENCE

- CapitalPurpose: stated objective
- MermaidAccount: reconciled reference
- LiquidityRequirement: explicit bound
- CapitalProposal: non-executing distribution plan

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

An unreconciled account or absent liquidity requirement must not produce an executable distribution.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

SHIVA

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1312

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1312>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1312](#)

Shekina Continuity - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-SHEKINA-TEAL | Source-backed documentary sequence — execution not rerun

Shekina Continuity / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
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IF / HOW / THEN CONTRACT

IF

Placement declares artifact versions, scope, resource bounds and continuity requirements.

HOW

Model bounded placement, replication and failover with source/target receipts. Preserve tenant boundaries and distinguish plans from observed recovery.

THEN

Return placement/continuity evidence or HOLD unavailable targets. Infrastructure location does not confer authority.

TYPED EVIDENCE

- PlacementRequest: artifact and scope
- Lease: bounded resources
- ReplicaSet: versioned identities
- FailoverPlan: declared source and target

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Cross-scope replication or failover to an unadmitted target must not expand the original lease.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

SHEKINA; SHEKINA-CONTINUITY

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1313

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1313>

- specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md · line 402

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md#L402>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Distributed and cloud continuity component in the historical ecosystem architecture.

SOURCE REFERENCES

[Recovered nonwhite collection, page 1313](#)

[specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md · line 402](#)

Belle Engineering - IF / HOW / THEN logic

MJPE-COMplete-20260925-BELLE-TEAL | Source-backed documentary sequence — execution not rerun

Belle Engineering / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

A design request supplies architecture, physics evidence and measurable feasibility criteria.

HOW

Review topology, assumptions and alternatives against the constraints; bind proposals to evidence and leave unsupported dimensions unresolved.

THEN

Return an engineering proposal and risk note. Feasibility review does not prove physical performance or authorize manufacture.

TYPED EVIDENCE

- DesignCAPO: source architecture
- PhysicsReceipt: applicable constraints
- Criterion: measurable feasibility requirement
- Proposal: alternative, assumptions and risk

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

A missing material or scale assumption must remain a recorded uncertainty rather than an invented design value.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

BELLE

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: `documented_reference`.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

MJ Physics Engineering | Bangel Language | MJos Operating System

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- Recovered nonwhite collection, page 1314

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1314>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1314](#)

Aviator Workspace - IF / HOW / THEN logic

MJPE-COMplete-20260925-AVIATOR-TEAL | Source-backed documentary sequence — execution not rerun

Aviator Workspace / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

An organizational request identifies workspace, role, project and intended record operation.

HOW

Preserve decisions, knowledge references and role boundaries. Present evidence without turning measurements into ranking, punishment or financial permission.

THEN

Return a bounded workspace/decision record or DENY an out-of-scope operation. Organizational context does not replace root authority.

TYPED EVIDENCE

- Workspace: tenant and scope
- MemberRole: explicit capability
- ProjectRecord: source-bound state
- DecisionRecord: author and evidence

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

A valid local role must not authorize another tenant's project.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

AVIATOR; AVIATOR-WORKSPACE

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference.

Documented domain role does not establish a currently deployed standalone engine.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1317

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1317>

- specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md · line 402

<https://github.com/Mjos23/bangel-language/blob/229548f13a4856455b3d30d408cf845fb5b557fc/specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md#L402>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Workspace for building applications and interacting with the Bangel toolchain and governed artifacts.

SOURCE REFERENCES

[Recovered nonwhite collection, page 1317](#)

[specs/roles/GIN-M001-BANGEL-IDENTITY-EDITION.md · line 402](#)

CHI Temporal Variance - IF / HOW / THEN logic

MJPE-COMplete-20260925-CHI-TEAL | Source-backed documentary sequence — execution not rerun

CHI Temporal Variance / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

A comparison identifies expected, observed, delivered and reconciled states under a named CHI profile.

HOW

Preserve clocks, missing states and source-specific difference semantics; keep CHI distinct from GIN until an explicit verified mapping exists.

THEN

Return temporal variance or HOLD incomparable states. Variance determines neither price nor execution permission.

TYPED EVIDENCE

- ExpectedState: source and time
- ObservedState: acquisition evidence
- DeliveredState: separate event
- Variance: typed difference and reconciliation

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Incompatible clocks or a missing observation must not be represented as zero variance.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

CHI

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference.

Do not automatically equate historical CHI with GIN; this pass recovered related temporal roles but no verified identity migration.

SOURCE REFERENCES

MJ Physics Engineering | Bangel Language | MJos Operating System

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- Recovered nonwhite collection, page 1318

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1318>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1318](#)

WATER Uncertainty - IF / HOW / THEN logic

MJPE-COMplete-20260925-WATER-TEAL | Source-backed documentary sequence — execution not rerun

WATER Uncertainty / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

An uncertainty classification supplies intervals, verified floors and evidence limits under the WATER family profile.

HOW

Apply interval and unknown-state rules with their source bounds; distinguish this family from Hagar control and the water-protection application.

THEN

Return a scoped uncertainty class or HOLD. Classification grants neither authority nor financial value.

TYPED EVIDENCE

- Interval: lower/upper and unit
- VerifiedFloor: source-backed bound
- EvidenceLimit: known or unknown
- ClassificationProfile: named rule

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Reversed interval bounds or missing required floors must reject or hold classification.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

WATER

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: `documented_reference`.

The WATER uncertainty family is not automatically identical to Hagar water-process control or the separate water protection product.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1319

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1319>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1319](#)

JP Semiconductor Phone - IF / HOW / THEN logic

MJPE-COMplete-20260925-JP-SEMICONDUCTOR-PHONE-TEAL | Source-backed documentary sequence — execution not rerun

JP Semiconductor Phone / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A phone-scale design declares scale, intake, battery and wake/reserve assumptions.

HOW

Represent static intake and solar-assist relationships; check units and reserve accounting without importing large-scale parameters.

THEN

Return a design trace and missing measurement requirements. No physical phone, proven capacity or operating device is established.

TYPED EVIDENCE

- ScaleProfile: semiconductor dimensions
- Intake: observed or simulated
- WakeReserve: energy and time
- BatteryState: charge and thermal evidence

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

A marine parameter without a validated scale map must be flagged rather than reused.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

JP-SC-PHONE; JP Semiconductor Phone Battery and OS Candidate
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_planned_only_no_physical_article.

PLANNED_ONLY_NO_PHYSICAL_ARTICLE

SOURCE REFERENCES

- Recovered nonwhite collection, page 1380

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1380>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1380](#)

JP Marine Power - IF / HOW / THEN logic

MJPE-COMplete-20260925-JP-MARINE-POWER-TEAL | Source-backed documentary sequence — execution not rerun

JP Marine Power / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
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IF / HOW / THEN CONTRACT

IF

A marine proposal names vessel context, intake, storage, power bus and containment assumptions.

HOW

Model relationships within the marine profile, keeping classification, environment, loads and absent physical measurements unresolved.

THEN

Return a marine design proposal, not vessel-operation or demonstrated propulsion evidence.

TYPED EVIDENCE

- MarineProfile: vessel context
- IntakeStorage: typed energy model
- PowerBus: conversion path
- Containment: declared boundary

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Missing vessel/load context must not be filled by a phone or generic solar profile.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

JP-LS-BOAT; JP Large-Scale Boating Power Candidate
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_planned_only_unclassified.

PLANNED_ONLY_UNCLASSIFIED

SOURCE REFERENCES

- Recovered nonwhite collection, page 1381

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1381>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1381](#)

JP Peaceful Propulsion - IF / HOW / THEN logic

MJPE-COMplete-20260925-JP-PEACEFUL-PROPULSION-TEAL | Source-backed documentary sequence — execution not rerun

JP Peaceful Propulsion / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF
A peaceful propulsion research request declares purpose, measurement boundary and unresolved safety gates.

HOW

Document bounded measurement/control requirements and independent safety evidence while retaining planned-only status.

THEN

Return a research design record on hold; no launch, ignition, hardware operation or physical performance is established.

TYPED EVIDENCE

- ResearchPurpose: peaceful scope
- PropulsionState: reference-only
- EnergyBoundary: typed quantities
- PhysicalStatus: active safety hold

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

A simulation result must not be promoted to a hardware command.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

JP-PEACEFUL-PROPULSION; JP Peaceful High-Energy Propulsion Research Candidate
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_planned_only_safety_hold.
PLANNED_ONLY_SAFETY_HOLD

SOURCE REFERENCES

- Recovered nonwhite collection, page 1382

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1382>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1382](#)

Shiva Dual Rails - IF / HOW / THEN logic

MJPE-COMplete-20260925-SHIVA-RAILS-TEAL | Source-backed documentary sequence — execution not rerun

Shiva Dual Rails / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

An internal scenario separates stability and investment purposes with applicable account evidence.

HOW

Keep liquidity-first constraints, risk models and rail accounting distinct; preserve exposure and reconciliation per source.

THEN

Return an internal financial-rail model or HOLD; external operations remain disabled.

TYPED EVIDENCE

- StabilityRail: liquidity scope
- InvestmentRail: risk scope
- AccountReference: Mermaid record
- ExternalState: disabled

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

An investment scenario must not silently consume a protected stability reserve.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

SHIVA-RAILS; Shiva Dual Financial Rails
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_internal_model_external_disabled.

INTERNAL_MODEL_EXTERNAL_DISABLED

SOURCE REFERENCES

- Recovered nonwhite collection, page 1387
<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1387>

SOURCE REFERENCES

Recovered nonwhite collection, page 1387

SHIVAS Internal Reflection - IF / HOW / THEN logic

MJPE-COMplete-20260925-SHIVAS-INTERNAL-TEAL | Source-backed documentary sequence — execution not rerun

SHIVAS Internal Reflection / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

An internal reflection names its source capital model and nontransferable boundary.

HOW

Record the reference and reconciliation history without minting an external asset, redemption promise or guaranteed value.

THEN

Return a nontransferable internal reflection record, with no public offer or monetary-value assertion.

TYPED EVIDENCE

- ReflectionId: immutable identity
- CapitalReference: internal source
- Transferability: false
- MonetaryValue: none asserted

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

External redemption or a guaranteed market price must be rejected as an unsupported interpretation.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

SHIVAS-INTERNAL; SHIVAS Internal Settlement Reflection
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_nontransferable_no_monetary_value.

NONTRANSFERABLE_NO_MONETARY_VALUE

SOURCE REFERENCES

- Recovered nonwhite collection, page 1388
<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1388>

SOURCE REFERENCES

Recovered nonwhite collection, page 1388

Shiva Exchange Reference - IF / HOW / THEN logic

MJPE-COMplete-20260925-SHIVA-EXCHANGE-TEAL | Source-backed documentary sequence — execution not rerun

Shiva Exchange Reference / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

An exchange-rule simulation declares fixtures, price-time rules and custody/audit assumptions.

HOW

Model the stated rule while preserving chronological order, custody references and unresolved authority obligations.

THEN

Return simulation evidence, not a live market, executed trade or transferable asset.

TYPED EVIDENCE

- SimulationOrder: bounded fixture
- PriceTimeRule: declared model
- CustodyReference: source or synthetic
- MarketState: simulation only

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

A matched simulation order must not be reported as a completed real transfer.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

SHIVA-EXCHANGE; Shiva Exchange Rule Reference
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_internal_simulation_only.

INTERNAL_SIMULATION_ONLY

SOURCE REFERENCES

- Recovered nonwhite collection, page 1390
<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1390>

SOURCE REFERENCES

Recovered nonwhite collection, page 1390

Elsa Marketplace Reference - IF / HOW / THEN logic

MJPE-COMplete-20260925-ELSA-MARKETPLACE-TEAL | Source-backed documentary sequence — execution not rerun

Elsa Marketplace Reference / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

An internal listing supplies meaning, workflow scope and required accounting/resource references.

HOW

Coordinate semantic, workflow and evidence relationships without giving the listing operational authority. Elsa remains the sole compiler identity.

THEN

Return an internal marketplace reference with unresolved stages visible; no live market is inferred.

TYPED EVIDENCE

- Listing: declared semantic purpose
- Workflow: bounded stages
- AccountingReference: scoped record
- ResourceEvidence: route and capacity

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

An ambiguous listing or missing custody reference must remain held rather than actionable.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

ELSA-MARKETPLACE; Elsa Governed Marketplace Reference

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_internal_reference_only.

INTERNAL_REFERENCE_ONLY

SOURCE REFERENCES

- Recovered nonwhite collection, page 1394

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1394>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1394](#)

Bangel Spreadsheets - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-BANGEL-SPREADSHEETS-TEAL | Source-backed documentary sequence — execution not rerun

Bangel Spreadsheets / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A workbook edit supplies typed cells, an expected revision and dependency/simulation context.

HOW

Preserve immutable revisions, deterministic recalculation, concurrency checks and audit evidence; keep Pearl simulation partitions distinct from measured cells.

THEN

Return a new revision with recalculation evidence, or reject/hold a conflict. Results do not authorize external effects.

TYPED EVIDENCE

- Cell: typed measurement or UNKNOWN
- Revision: immutable workbook identity
- DependencyGraph: declared edges
- RecalculationReceipt: exact input/output revisions

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

A stale revision or incompatible unit must not overwrite prior work or coerce missing values to zero.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel-SPREADSHEETS; Bangel Spreadsheets

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference_mvp_prepasskey.

REFERENCE_MVP_PREPASSKEY

SOURCE REFERENCES

- Recovered nonwhite collection, page 1397

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1397>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1397](#)

JPOSMJ Portfolio - IF / HOW / THEN logic

MJPE-COMplete-20260925-JPOSMJ-PORTFOLIO-TEAL | Source-backed documentary sequence — execution not rerun

JPOSMJ Portfolio / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A product candidate declares origin and independent physics, verification and participant-review requirements.

HOW

Collect separate reviews into a portfolio envelope, retaining product-specific evidence and unresolved admission gates.

THEN

Return a product evidence envelope. Inclusion does not transfer another product's proof or permit.

TYPED EVIDENCE

- ProductOrigin: JP source identity
- PhysicsReview: MK applicability
- Verification: JO evidence
- PermitClass: bounded MJ status

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

An unrelated product receipt must not close the target's requirement without verified equivalence.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

JPOSMJ-PORTFOLIO; JPOSMJ Product Portfolio Envelope
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_prepasskey_portfolio_envelope.
PREPASSKEY_PORTFOLIO_ENVELOPE

SOURCE REFERENCES

- Recovered nonwhite collection, page 1398
<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1398>

SOURCE REFERENCES

Recovered nonwhite collection, page 1398

MJ Standard Containment - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-STANDARD-CONTAINMENT-TEAL | Source-backed documentary sequence — execution not rerun

MJ Standard Containment / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A reference calculation declares normalized geometry, scale, gas profile and boundary conditions.

HOW

Calculate source-backed geometry relationships while separating measured dimensions and gas behavior from normalized reference shapes.

THEN

Return a geometry reference and required measurements; absent physical values remain held.

TYPED EVIDENCE

- Geometry: normalized rectangle/cone profile
- Scale: declared with physical values held
- ReferenceGas: named model
- Boundary: Sister, EVE and reservoir

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Normalized dimensions must not be treated as fabricated hardware dimensions without scale evidence.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

STANDARD-CONTAINMENT-GEOMETRY; MJ Standard Containment Geometry and Reference Gas Model
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference_mvp_physical_values_hold.

REFERENCE_MVP_PHYSICAL_VALUES_HOLD

SOURCE REFERENCES

- Recovered nonwhite collection, page 1399

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1399>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1399](#)

MJ Reservoir Collection - IF / HOW / THEN logic

MJPE-COMplete-20260925-RESERVOIR-COLLECTION-TEAL | Source-backed documentary sequence — execution not rerun

MJ Reservoir Collection / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A reservoir model identifies collection, outlet, buffer, re-entry and wave/friction assumptions.

HOW

Track loop and return relationships using units, uncertainty and applicable containment, egress, safety, routing and accounting evidence.

THEN

Return a reference balance or HOLD missing measurements; a logical loop is not a demonstrated physical circulation device.

TYPED EVIDENCE

- ReservoirState: bounded volume or energy
- Outlet: exterior boundary
- Reentry: declared geometry
- Balance: observed, simulated or unknown

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

An omitted outlet or residual must remain unknown rather than silently creating a self-balancing system.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

RESERVOIR-COLLECTION-MODULATION; MJ Reservoir Collection, Lake Buffer, and Spiral-Compatible Re-entry

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference_mvp_physical_values_hold.

REFERENCE_MVP_PHYSICAL_VALUES_HOLD

SOURCE REFERENCES

- Recovered nonwhite collection, page 1400

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1400>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1400](#)

MJos Solar Core - IF / HOW / THEN logic

MJPE-COMplete-20260925-SOLAR-CORE-TEAL | Source-backed documentary sequence — execution not rerun

MJos Solar Core / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A solar design selects its application profile and declares intake, storage, load and reserve assumptions.

HOW

Apply shared energy-accounting relationships while retaining each application's independent geometry, environment and verification needs.

THEN

Return a shared-core design trace and evidence gaps; one profile's calculation does not validate the others.

TYPED EVIDENCE

- SolarIntake: energy and source
- Storage: bounded state
- LoadProfile: phone, marine or spacecraft
- Reserve: explicit protected minimum

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

A phone thermal limit must not be applied to a marine or spacecraft profile without evidence.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJOS-SOLAR-CORE-001; MJOS Solar Shared-Core Architecture
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_design_trace_specification_frozen_physical_hold.

DESIGN_TRACE_SPECIFICATION_FROZEN_PHYSICAL_HOLD

SOURCE REFERENCES

- Recovered nonwhite collection, page 1401

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1401>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1401](#)

MJos Solar Phone - IF / HOW / THEN logic

MJPE-COMplete-20260925-SOLAR-PHONE-TEAL | Source-backed documentary sequence — execution not rerun

MJos Solar Phone / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A phone-power scenario declares solar input, battery/thermal observations, workload and wake reserves.

HOW

Coordinate intake, storage and workload within the semiconductor profile using typed energy accounting and explicit uncertainty.

THEN

Return a planned power trace, not a demonstrated battery-life claim or physical phone.

TYPED EVIDENCE

- PhoneLoad: workload context
- SolarAssist: observed or assumed
- BatteryThermal: source-bound temperature
- WakeReserve: bounded energy

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Missing temperature or acquisition provenance must hold unsupported thermal/reserve conclusions.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJOS-SOLAR-SEMI-PHONE-001; MJOS Solar Semiconductor Phone Battery and OS Profile

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_design_trace_specification_frozen_planned_only_no_physical_article.

DESIGN_TRACE_SPECIFICATION_FROZEN_PLANNED_ONLY_NO_PHYSICAL_ARTICLE

SOURCE REFERENCES

MJ Physics Engineering | Bangel Language | MJos Operating System

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- Recovered nonwhite collection, page 1402

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1402>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1402](#)

MJos Solar Marine - IF / HOW / THEN logic

MJPE-COMplete-20260925-SOLAR-MARINE-TEAL | Source-backed documentary sequence — execution not rerun

MJos Solar Marine / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A marine scenario declares intake, storage, propulsion loads, thermal requirements and critical reserves.

HOW

Model conversion/recovery and state transitions with vessel-specific telemetry and reserve requirements.

THEN

Return an unclassified design trace or HOLD; no operating vessel, certification or physical efficiency is established.

TYPED EVIDENCE

- MarineLoad: propulsion and critical loads
- SolarStorage: intake and state
- ConversionRecovery: explicit path
- ReserveProtection: source-bound limits

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Ordinary demand must not silently consume a protected critical reserve.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJOS-SOLAR-MARINE-001; MJOS Solar-Assisted Marine Power and Propulsion Profile

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_design_trace_specification_frozen_unclassified_no_physical_article.

DESIGN_TRACE_SPECIFICATION_FROZEN_UNCLASSIFIED_NO_PHYSICAL_ARTICLE

SOURCE REFERENCES

- Recovered nonwhite collection, page 1403

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1403>

SOURCE REFERENCES

Recovered nonwhite collection, page 1403

MJos Solar Spacecraft - IF / HOW / THEN logic

MJPE-COMplete-20260925-SOLAR-SPACECRAFT-TEAL | Source-backed documentary sequence — execution not rerun

MJos Solar Spacecraft / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF
A peaceful spacecraft reference declares mission scope, electrical reserves, thermal/battery state and startup/shutdown evidence requirements.

HOW

Document solar-assisted avionics, telemetry and fault-isolation relationships without converting them into launch or propulsion commands.

THEN

Return a peaceful research trace with safety holds preserved.

TYPED EVIDENCE

- MissionProfile: peaceful research
- AvionicsReserve: bounded energy
- PropulsionState: coordination only
- FaultState: explicit emergency boundary

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

A successful reserve simulation must not be presented as launch approval.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJOS-SOLAR-ROCKET-001; MJOS Peaceful Solar-Assisted Rocket/Spacecraft Power and OS Profile
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_design_trace_specification_frozen_peaceful_research_only_safety_hold.
DESIGN_TRACE_SPECIFICATION_FROZEN_PEACEFUL_RESEARCH_ONLY_SAFETY_HOLD

SOURCE REFERENCES

- Recovered nonwhite collection, page 1404

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1404>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1404](#)

DRO Collection - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-DRO-COLLECTION-TEAL | Source-backed documentary sequence — execution not rerun

DRO Collection / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A collection record declares identity, quantity, scale, source and evidence state.

HOW

Preserve typed measurement, lineage and conservation; distinguish collection observations from Pearl simulation and computational retention.

THEN

Return a DRO reference record or HOLD missing evidence; no physical collection hardware is established.

TYPED EVIDENCE

- DRORecord: element or variance identity
- Quantity: value, unit and uncertainty
- Scale: named profile
- Lineage: collection and conservation references

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

A Pearl simulation value must not be promoted to an observed DRO measurement.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

DRO-COLLECTION-001; DRO Discrete Retention and Element-Collection Reference System

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference_candidate_simulation_and_measurement_only.

REFERENCE_CANDIDATE_SIMULATION_AND_MEASUREMENT_ONLY

SOURCE REFERENCES

- Recovered nonwhite collection, page 1405

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1405>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1405](#)

DRO–Pearl Handoff - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-DRO-PEARL-HANDOFF-TEAL | Source-backed documentary sequence — execution not rerun

DRO–Pearl Handoff / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

DRO and Pearl identities declare compatible quantity/capacity types and a bounded computational handoff.

HOW

Allocate within capacity, retain the original measurement or simulation class and bind both sides to a receipt.

THEN

Return a computational handoff record; information retention does not become physical containment.

TYPED EVIDENCE

- DROSource: typed record
- PearlNode: computational partition
- Capacity: typed allocation bound
- Receipt: source, target and retained lineage

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Capacity excess or lost source identity must reject/hold rather than silently truncate the transfer.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

DRO-PEARL-HANDOFF-001; DRO-to-Pearl Computational Node Handoff

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_simulation_and_information_retention_only.

SIMULATION_AND_INFORMATION_RETENTION_ONLY

SOURCE REFERENCES

- Recovered nonwhite collection, page 1406

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1406>

SOURCE REFERENCES

Recovered nonwhite collection, page 1406

DRO Start and Reserve - IF / HOW / THEN logic

MJPE-COMplete-20260925-DRO-START-RESERVE-TEAL | Source-backed documentary sequence — execution not rerun

DRO Start and Reserve / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A start/restart reference scenario declares source energy, conversion assumptions and protected reserves.

HOW

Represent source, start and restart accounting with explicit permit gates and unresolved physical measurements.

THEN

Return a non-operational energy reference on active hold; no ignition hardware is authorized.

TYPED EVIDENCE

- EnergySource: classified reference
- StartEnergy: amount or UNKNOWN
- RestartReserve: protected bound
- OperationState: non-operational hold

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Adequate simulated start energy without verified reserve and separate permission must retain the hold.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

DRO-IGNITION-REFERENCE-001; DRO Start-Energy and Restart-Reserve Reference System

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_non_operational_reference_active_hold.

NON_OPERATIONAL_REFERENCE_ACTIVE_HOLD

SOURCE REFERENCES

- Recovered nonwhite collection, page 1407

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1407>

SOURCE REFERENCES

Recovered nonwhite collection, page 1407

Lecanto Image Truth - IF / HOW / THEN logic

MJPE-COMplete-20260925-LECANTO-IMAGE-TRUTH-TEAL | Source-backed documentary sequence — execution not rerun

Lecanto Image Truth / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

Image analysis preserves original source identity and declares its comparison or transformation purpose.

HOW

Analyze source-backed residuals, label derivatives and distinguish a bounded intent hypothesis from observed fact.

THEN

Return provenance-linked analysis or HOLD missing origin; signal differences do not establish intent.

TYPED EVIDENCE

- ImageSource: digest and metadata
- SignalResidual: scoped comparison
- Transformation: disclosed derivative
- IntentHypothesis: bounded inference

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

An undisclosed edit or missing provenance must not be presented as an untouched original.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

LECANTO-IMAGE-TRUTH-001; Lecanto Image Provenance, Physics, Variance, and Intent-Hypothesis System

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_reference_candidate.

REFERENCE_CANDIDATE

SOURCE REFERENCES

- Recovered nonwhite collection, page 1408

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1408>

SOURCE REFERENCES

Recovered nonwhite collection, page 1408

JP Semiconductor DRO–Pearl - IF / HOW / THEN logic

MJPE-COMplete-20260925-SEMICONDUCTOR-DRO-PEARL-TEAL | Source-backed documentary sequence — execution not rerun

JP Semiconductor DRO–Pearl / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A proposal binds energy accounting, computational capacity and wake/reserve assumptions to one semiconductor scale.

HOW

Preserve separate measurement, simulation and power roles; check typed capacities and energy relationships without inventing a physical article.

THEN

Return a planned integration trace with unresolved hardware evidence.

TYPED EVIDENCE

- SemiconductorProfile: scale and power
- DROEnergyLedger: typed quantities
- PearlNode: computational capacity
- WakeReserve: protected limit

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Computational retention must not be treated as physical energy storage without a measured mapping.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

JP-SC-DRO-PEARL-INTEGRATION-001; JP Semiconductor DRO and Pearl Computational Integration
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_planned_only_no_physical_article.

PLANNED_ONLY_NO_PHYSICAL_ARTICLE

SOURCE REFERENCES

- Recovered nonwhite collection, page 1409

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1409>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1409](#)

Shiva Internal Banking Reference - IF / HOW / THEN logic

MJPE-COMplete-20260925-SHIVA-DAY1-TEAL | Source-backed documentary sequence — execution not rerun

Shiva Internal Banking Reference / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

An internal Day-1 objective states account, treasury, settlement and audit scope.

HOW

Document internal financial relationships under Mermaid, M3, JO, MK and MJ boundaries; exclude outside-platform cryptocurrency and public markets.

THEN

Return an internal future-objective record, not an operational bank or public service.

TYPED EVIDENCE

- InternalAccount: reference-only
- TreasuryScenario: explicit scope
- SettlementReflection: internal model
- ExternalMarket: excluded

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

External token offers or unadmitted transfers must not expand the internal scope.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

SHIVA-DAY1-INTERNAL-BANKING-MVP

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_future_internal_objective.

No outside-platform cryptocurrency, public market or operational banking claim.

SOURCE REFERENCES

- Recovered nonwhite collection, page 7105

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=7105>

SOURCE REFERENCES

[Recovered nonwhite collection, page 7105](#)

Shiva Crypto Legacy Candidate - IF / HOW / THEN logic

MJPE-COMplete-20260925-SHIVA-CRYPTO-LEGACY-TEAL | Archive reference — disabled

Shiva Crypto Legacy Candidate / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A reader must reconcile the earlier disabled Blue entry with the later internal-only Grey register.

HOW

Preserve both dated scopes without treating the later internal objective as authorization for the older external candidate.

THEN

Return archive-only reconciliation; no token, market or live external product is promoted.

TYPED EVIDENCE

- HistoricalEntry: BP-PROD-017
- Status: DISABLED_ACTIVE_HOLD
- LaterScope: internal-only Grey objective
- Reconciliation: dated scope difference

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

A later internal update must not be represented as removal of the earlier external hold.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

SHIVA-CRYPTO

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: historical_disabled.

Disabled historical record; not a current launch, token offer or live financial service.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1389
<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1389>

- Recovered nonwhite collection, page 7105

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=7105>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1389](#)

[Recovered nonwhite collection, page 7105](#)

Shiva Shells - IF / HOW / THEN logic

MJPE-COMplete-20260925-SHIVA-SHELLS-TEAL | Source-backed documentary sequence — execution not rerun

Shiva Shells / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A Shiva Shell identifies its typed financial state, source lineage and applicable account-envelope contract.

HOW

Validate schema, provenance and scope; carry related accounting and participant evidence without letting the object authorize itself.

THEN

Return a governed account envelope or HOLD missing evidence. A shell is distinct from Shiva capital proposals and SHIVAS nontransferable reflections.

TYPED EVIDENCE

- ShellId: governed account-envelope identity
- FinancialState: typed representations
- Provenance: source-bound evidence
- Authority: false; separate admission required

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

A well-formed shell without separate custody or admission evidence must not authorize a transfer or enlarge its scope.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

SHIVA_SHELL; Shiva shells

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_historical_reference.

authority=false; separate custody, scope and admission requirements remain applicable.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1327

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1327>

- Recovered nonwhite collection, page 7098

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=7098>

- Recovered nonwhite collection, page 394

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=394>

RECOVERED HISTORICAL CONTEXT

- Historical scope: Account family used with SHIVAS and the Teal/MJ development integration.
- Historical integration reported; account and authority contracts require their own source evidence.
- Historical evidence has not been rerun in this discovery pass.

SEPARATE HISTORICAL CONTRACT OUTLINE

- ShellIdentity — account and governing profile
- AccountState — exact holdings and sequence
- TransferContext — sender, recipient and allowed operation
- ShellReceipt — state change and provenance

IF

A Shell account participates in an admitted ledger instruction.

HOW

Resolve the account identities and exact state, apply the matching asset/profile rules and retain the sequence and reconciliation evidence.

THEN

Describe the accountable before/after state and any unmet authority condition.

This historical outline is separate from the current-source contract above. It does not establish native integration or newly executed results.

SOURCE REFERENCES

[Recovered nonwhite collection, page 1327](#)

[Recovered nonwhite collection, page 7098](#)

[Recovered nonwhite collection, page 394](#)

MJos Operating System - IF / HOW / THEN logic

MJPE-COMplete-20260925-MJOS-OPERATING-SYSTEM-TEAL | Source-backed documentary sequence — execution not rerun

MJos Operating System / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

An operating-system profile declares its resource, memory, storage, scheduling and continuity obligations under the applicable MJ scope.

HOW

Represent the proposed substrate and lease boundaries, preserving exact resource ownership and source status. Distinguish hosted software components and simulations from a demonstrated bootable operating system.

THEN

Return a source-backed operating-system profile or unresolved implementation requirement. The MJos name does not itself establish a completed kernel or hardware platform.

TYPED EVIDENCE

- OperatingProfile: explicit proposed substrate
- ResourceLease: bounded MJ allocation
- ExecutionPlan: separately admitted work
- InfrastructureReceipt: isolation and continuity evidence

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

A successful hosted calculation must not be reported as a boot, isolation proof or operational OS result without corresponding executable evidence.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJOS; MJos OS; MJOS-SUBSTRATE
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Historical reference or specification recovered. Its source status remains visible and is not promoted to a current standalone implementation.

Recovered status: documented_specification_candidate.

Source-described operating substrate; no complete bootable kernel, hardware platform or independently verified

resource-isolation result is inferred.

SOURCE REFERENCES

- Recovered nonwhite collection, page 1305

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1305>

- Recovered nonwhite collection, page 1379

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=1379>

- Recovered nonwhite collection, page 7095

<https://drive.google.com/file/d/1RpxuVZjdCHSITNXIZZuWacJ1BNBAPCLv/view#page=7095>

SOURCE REFERENCES

[Recovered nonwhite collection, page 1305](#)

[Recovered nonwhite collection, page 1379](#)

[Recovered nonwhite collection, page 7095](#)

Bangel Database 1.0 - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-BANGEL-DATABASE-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Database 1.0 / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A query or transaction names its schema, purpose, expected effects and required permissions.

HOW

Resolve the typed request, retain uncertainty and lineage, check the declared transaction boundary and compare the result with its governing profile.

THEN

Document the admitted result and reconciliation record; keep unsupported schema or authority conditions explicit.

TYPED EVIDENCE

- DatabaseRequest — query, schema version, declared purpose
- TypedTransaction — values, constraints, visibility and isolation
- AuthorityEvidence — actor, scope and expiry
- TransactionReceipt — admitted outcome, uncertainty and lineage

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Submit a transaction with an incompatible schema or absent write authority; preserve refusal and unchanged state, even if its payload hash is valid.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel Database 1.0

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Historical E012 and AR001 builds are reported; an independent current release and full native parity remain unverified.

Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Moana Service Desk - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-MOANA-SERVICE-DESK-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Moana Service Desk / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A user selects a documented workflow with the required record and role context.

HOW

Match the request to the source-defined workflow, preserve record identity and state transitions, and distinguish prototype behavior from connected services.

THEN

Return the documented workflow result with its evidence level and unresolved integration steps.

TYPED EVIDENCE

- UserIntent — requested workflow and context
- DomainRecord — versioned project data
- PermissionScope — actor and allowed operation
- WorkflowReceipt — observed result and provenance

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Attempt a technician-only service transition from an unassigned account; retain the ticket history and reject the unauthorized state change.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Moana Service Desk

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

A local Linux demo with 21 integration tests was historically reported; Windows, macOS and hosted operation remain unverified. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJ Logical Layer 5 - IF / HOW / THEN logic

MJPE-COMplete-20260925-MJ-L5-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJ Logical Layer 5 / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A neural or predictive proposal reaches the supervising decision layer.

HOW

Apply the independent gate order, operating mode and bounded-loop policy while retaining the original proposal and observed evidence.

THEN

Record the permitted disposition without allowing predicted confidence to override missing or rejecting evidence.

TYPED EVIDENCE

- ModelProposal — candidate outcome and uncertainty
- IndependentEvidence — observations separate from the proposal
- GateDecision — PASS, HOLD or DENY with reasons
- SupervisionTrace — deadlines, retries and retained state

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Feed a high-confidence prediction while an independent guardian veto is active; the forecast must not override that veto or deadline.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJ Logical Layer 5

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Protected L5 test and ablation completion is reported; a plain-L5 extra HOLD remained separately unresolved. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MjQ - IF / HOW / THEN logic

MJPE-COMplete-20260925-MJQ-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MjQ / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A research claim links language states, memory or relational context.

HOW

Preserve its definitions, distinguish software analogy from biological evidence and identify an explicit comparison or falsification test.

THEN

Retain a qualified research result and unresolved questions rather than promoting analogy into implemented fact.

TYPED EVIDENCE

- ResearchHypothesis — stated idea and scope
- QualifiedAnalogy — source and biological or software context
- Observation — measured or synthetic evidence
- FalsificationCriterion — result that would challenge the hypothesis

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Compare two matching cues under different coordinate or relation contexts; preserve uncertainty and distinguish associative retrieval from a verified causal explanation.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MjQ

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Research note; biological analogies and provisional lowercase r0 are not established biological mechanisms. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJos Self-Healing Kernel - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-MJOS-SELF-HEALING-KERNEL-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJos Self-Healing Kernel / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A detected failure or discrepancy requests a recovery action.

HOW

Identify the exact recoverable state, permitted correction and independent validation path; preserve prior evidence and rollback boundaries.

THEN

Describe the verified recovery or unresolved hold without granting the recovery module new authority.

TYPED EVIDENCE

- Checkpoint — rooted recoverable state
- RecoveryProposal — intended bounded correction
- IndependentValidation — evidence for accepting a correction
- RecoveryReceipt — applied or retained state and reason

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Interrupt a bounded worker after a checkpoint; record recovery provenance and ensure the proposed recovered state is validated before reuse.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJos Self-Healing Kernel

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Partial interfaces and development integration are reported; normal issuance and predictive key recovery were distinct historical paths. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Predictive Node Placement - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-PREDICTIVE-NODE-PLACEMENT-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Predictive Node Placement / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A named mechanism is used in a project explanation or proposed computation.

HOW

Bind it to its governing profile, distinguish inputs from interpretations and retain measurements, uncertainty and source lineage.

THEN

Explain the supported contribution and record any missing executable rule without inferring behavior from the name.

TYPED EVIDENCE

- SourceProfile — exact mechanism definition
- InputObservation — value, unit, context and provenance
- MechanismResult — profile-bound interpretation
- EvidenceGap — missing rule, source or measurement

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Give the next command an early observation that conflicts with the previous prediction; preserve both and reconcile against the actual outcome.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Predictive Node Placement

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Intended incremental loop and development integration; performance is workload-specific and requires verification. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Teal Ledger - IF / HOW / THEN logic

MJPE-COMplete-20260925-TEAL-LEDGER-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Teal Ledger / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A proposed ledger instruction identifies its asset, account, exact amount and admitted scope.

HOW

Preserve the applicable profile, compare conservation and reconciliation rules, and separate internal reference behavior from external transfer or financial authority.

THEN

Record the profile-qualified result; retain missing integration and external-operation requirements.

TYPED EVIDENCE

- LedgerInstruction — asset, account and intended operation
- ExactAmount — units, scale and conservation rule
- AdmissionEvidence — identity, scope and validated conditions
- LedgerReceipt — before/after state, evidence and reconciliation

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Replay a signed allocation and attempt a decimal transfer beyond available atomic balance; reject duplicate or invalid state transitions without rounding value.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Teal Ledger

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Local development builds and benchmarks reported; distributed deployment and full release contracts remain open.

Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

SHIVAS Ledger Profile - IF / HOW / THEN logic

MJPE-COMplete-20260925-SHIVAS-LEDGER-PROFILE-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

SHIVAS Ledger Profile / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A SHIVAS record is interpreted or used in a ledger example.

HOW

Select the correct dated profile and preserve its amount, transferability, internal-reflection and authority rules.

THEN

Document only that profile's behavior; do not silently convert an internal reflection into a transferable public asset.

TYPED EVIDENCE

- AssetProfile — identity, denomination and transfer rules
- ExactBalance — atomic units and evidence
- TransferProposal — source, destination and scope
- AssetReceipt — conserved state and lineage

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Transfer one atomic unit at the exact balance boundary and then one unit beyond it; document valid arithmetic separately from permission to transfer real value.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

SHIVAS Ledger Profile

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

This later ledger profile must not overwrite the nontransferable SHIVAS Internal Reflection source profile. Development ledger identity; no independent production asset or value claim is established. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJ Digital Twin - IF / HOW / THEN logic

MJPE-COMplete-20260925-DIGITAL-TWIN-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJ Digital Twin / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A digital model receives an observation and proposes a future or alternative state.

HOW

Preserve observation time and provenance, distinguish received facts from forecast values and compare predictions with later evidence.

THEN

Record the model's bounded result and variance without substituting predictions for unreceived or unauthenticated data.

TYPED EVIDENCE

- ObservedState — actual received data
- PredictedState — candidate continuation or placement
- Comparison — difference with confidence and uncertainty
- TwinReceipt — observation, prediction and evidence boundary

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Change a received command result after fixing its prediction; keep the original prediction and add a separately timestamped discrepancy receipt.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJ Digital Twin

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

First received-byte observation was historically reported; prediction is not a verified substitute for actual authenticated input. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJ Quantum Water Protection - IF / HOW / THEN logic

MJPE-COMplete-20260925-MJ-QUANTUM-WATER-PROTECTION-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJ Quantum Water Protection / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A water-system design or protective action is evaluated.

HOW

Use the declared physical model and available measurements, separate software simulation from hardware evidence and retain uncertainty and operating limits.

THEN

Produce the supported design or test conclusion and identify the measurements needed before physical-performance claims.

TYPED EVIDENCE

- WaterSystemBoundary — components and intended purpose
- Measurement — units, sensor or simulation origin
- ProtectionProposal — proposed bounded action
- ValidationRecord — software, bench or field evidence

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Supply a simulated sensor series as if it were field water evidence; require clear provenance and prevent a treatment-performance claim from that series.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJ Quantum Water Protection

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical source and package lineage; the name does not establish experimentally validated quantum protection. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Cloud - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-BANGEL-CLOUD-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Cloud / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A project enters a local workspace or a proposed hosted environment.

HOW

Preserve source imports and project boundaries, trace the selected build/backup path and distinguish local capabilities from connected hosting.

THEN

Present the available workspace result and its actual persistence, authentication and deployment status.

TYPED EVIDENCE

- ProjectManifest — source, documents and versions
- WorkspaceAction — edit, import, build or restore
- AccessContext — actor and declared scope
- WorkspaceReceipt — artifact, checkpoint and status

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Import two projects with the same file name but different roots; preserve source identities, access boundaries and recoverable versions.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel Cloud

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Local checkpoints and cloud preparation are reported; earlier AWS deployment was explicitly pending. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Workspace - IF / HOW / THEN logic

MJPE-COMplete-20260925-BANGEL-WORKSPACE-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Workspace / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A project document, program or experiment is added to the workspace.

HOW

Retain originals and duplicate lineage, associate derived results with inputs and verify the applicable save or restoration path.

THEN

Expose a traceable project view and explicit recovery boundary.

TYPED EVIDENCE

- ProjectManifest — files and version lineage
- ImportRecord — original and derived artifact
- ExperimentRecord — inputs, outputs and context
- RecoveryCheckpoint — verified save and restore record

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Restore a checkpoint after modifying an experiment; identify the exact restored bytes and keep the newer experiment discoverable as a separate version.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel Workspace

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Historical local checkpoint packages; complete current source and durable-save status require recovery. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Physics Lab - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-BANGEL-PHYSICS-LAB-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Physics Lab / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A learner changes a documented example or experiment.

HOW

Explain the governing rule, preserve input units and assumptions, and label executed examples separately from candidate language exports.

THEN

Show the result, comparison and evidence appropriate to the supported lesson.

TYPED EVIDENCE

- Lesson — concept and versioned source
- ExperimentInput — value, unit and assumption
- ExampleResult — computed or illustrative output
- LearningEvidence — execution environment and limits

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Enter physically incompatible units in a formula example; produce an explicit constraint result rather than a plausible-looking numerical answer.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel Physics Lab

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical 100-method local lab; native execution coverage differed by language and checkpoint. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Statistics Lab - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-BANGEL-STATISTICS-LAB-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Statistics Lab / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A learner changes a documented example or experiment.

HOW

Explain the governing rule, preserve input units and assumptions, and label executed examples separately from candidate language exports.

THEN

Show the result, comparison and evidence appropriate to the supported lesson.

TYPED EVIDENCE

- Lesson — concept and versioned source
- ExperimentInput — value, unit and assumption
- ExampleResult — computed or illustrative output
- LearningEvidence — execution environment and limits

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Compare a missing observation with an actual zero and vary a resampling seed; preserve missingness and reproducible statistical assumptions.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel Statistics Lab

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Historical local learning workbench; it was not yet a 100-method catalog. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJ Encrypted Message API - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-MJ-ENCRYPTED-MESSAGE-API-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJ Encrypted Message API / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A request arrives under the documented protocol.

HOW

Validate its shape and integrity using the stated contract and distinguish tamper detection from identity, freshness or authorization guarantees.

THEN

Report the supported acceptance result without implying checks the protocol does not implement.

TYPED EVIDENCE

- ProtocolRequest — endpoint, version and payload
- AuthenticationEvidence — key-bound integrity result
- ProtocolDecision — accepted or rejected with reason
- ResponseReceipt — result and documented limitations

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Alter an authenticated message and replay a previously accepted packet; report tamper and replay behavior separately under the declared protocol.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJ Encrypted Message API

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Historical cross-platform tests and public repository reported; identity, truth and freshness are not established by message acceptance. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Interoperability - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-BANGEL-INTEROP-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Interoperability / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A host language calls a documented Bangel interface.

HOW

Match protocol, representation and ownership rules; keep adapter behavior separate from native-language implementation claims.

THEN

Return a profile-qualified result and record which parity evidence actually covers the binding.

TYPED EVIDENCE

- BindingContract — language and protocol version
- TypedRequest — representation and effects
- InteropResult — output or named failure
- ParityEvidence — platform and matching contract

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Pass an unknown field, an unsupported numeric value and a version mismatch through each claimed binding; compare protocol outcomes without assuming parity.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel Interoperability

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Some released integration families are reported; each binding needs its own supported-contract and parity record. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Teaching Pathway - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-BANGEL-TEACHING-PATHWAY-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Teaching Pathway / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A learner follows a Bangel or paired C#/Bangel lesson.

HOW

Use examples grounded in the selected implemented grammar and explain matching and differing semantics.

THEN

Provide a reproducible exercise and distinguish teaching shorthand from executable syntax.

TYPED EVIDENCE

- LearningObjective — supported concept
- WorkedExample — source and grammar profile
- Comparison — C# and Bangel behavior
- PracticeEvidence — expected result and explanation

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Translate a lesson between C# and Bangel and verify equivalent inputs, units and visible outcomes; mark features whose toolchain support is only proposed.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel Teaching Pathway

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Recovered document and repository pathway; teaching examples must match the implemented grammar. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Java Work Order API - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-JAVA-WORK-ORDER-API-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Java Work Order API / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A learner changes a documented example or experiment.

HOW

Explain the governing rule, preserve input units and assumptions, and label executed examples separately from candidate language exports.

THEN

Show the result, comparison and evidence appropriate to the supported lesson.

TYPED EVIDENCE

- Lesson — concept and versioned source
- ExperimentInput — value, unit and assumption
- ExampleResult — computed or illustrative output
- LearningEvidence — execution environment and limits

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Try an invalid work-order status transition and malformed required field; preserve structured errors and the previous stored record.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Java Work Order API

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical clean build and nine tests reported; learner mastery and production suitability are separate. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Artifact Integrity Service - IF / HOW / THEN logic

MJPE-COMplete-20260925-ARTIFACT-INTEGRITY-SERVICE-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Artifact Integrity Service / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

An artifact-integrity workflow is proposed for a software package.

HOW

Define the deterministic inventory and comparison contract, identify unsafe paths and distinguish design requirements from built functionality.

THEN

Produce a reviewable specification and explicit implementation status.

TYPED EVIDENCE

- ProposedCapability — purpose and scope
- ArtifactManifest — paths, sizes and hashes
- DifferenceReport — added, missing or changed entries
- ImplementationEvidence — source and test status

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Compare manifests after adding, removing and modifying files, including an unsafe path; distinguish each change and refuse traversal outside the allowed root.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Artifact Integrity Service

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_proposal.

Architecture and learning proposal; a completed implementation was not established in the reviewed turns. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Manifest - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-MANIFEST-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Manifest / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A creator or visitor explores the Manifest prototype.

HOW

Follow the documented presentation and booking flow while retaining its separate project boundary and identifying simulations.

THEN

Return the prototype outcome without implying live payments, notifications or availability.

TYPED EVIDENCE

- CreatorProfile — declared public presentation
- BookingIntent — proposed service and availability
- PrototypeEvent — simulated interaction
- IntegrationStatus — connected or pending service

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Attempt to turn an incomplete creator profile into a confirmed booking; preserve the distinction between presentation, availability and accepted booking authority.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Manifest

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Private UI prototype with simulated bookings and alerts; earlier user direction explicitly kept it separate from approved BarTide/Tide Casa builds. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Tide Casa - IF / HOW / THEN logic

MJPE-COMplete-20260925-TIDE-CASA-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Tide Casa / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
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IF / HOW / THEN CONTRACT

IF

A client defines a website or application need.

HOW

Map it to the supported product lane and documented delivery workflow, preserving the distinction between approved builds and historical prototypes.

THEN

Present a traceable preview or bounded delivery result with its current evidence.

TYPED EVIDENCE

- ClientBrief — business need and scope
- ProductConfiguration — selected workflow and presentation
- DeliveryRecord — build, preview and release state
- OperatingEvidence — observed capability and limits

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Route the same account through two service verticals; preserve each business context, billing purpose and client authorization.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Tide Casa

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historically deployed C# product; public branding should remain distinct from internal engineering roles. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Variance Capture - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-VARIANCE-CAPTURE-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Variance Capture / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A named mechanism is used in a project explanation or proposed computation.

HOW

Bind it to its governing profile, distinguish inputs from interpretations and retain measurements, uncertainty and source lineage.

THEN

Explain the supported contribution and record any missing executable rule without inferring behavior from the name.

TYPED EVIDENCE

- SourceProfile — exact mechanism definition
- InputObservation — value, unit, context and provenance
- MechanismResult — profile-bound interpretation
- EvidenceGap — missing rule, source or measurement

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Record opposite signed deviations from the same fixed prediction; retain sign, units, uncertainty and original observation timestamps.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Variance Capture

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Recovered named mechanism; numeric and governance semantics are profile-specific. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Variance Pool - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-VARIANCE-POOL-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Variance Pool / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
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IF / HOW / THEN CONTRACT

IF

A named mechanism is used in a project explanation or proposed computation.

HOW

Bind it to its governing profile, distinguish inputs from interpretations and retain measurements, uncertainty and source lineage.

THEN

Explain the supported contribution and record any missing executable rule without inferring behavior from the name.

TYPED EVIDENCE

- SourceProfile — exact mechanism definition
- InputObservation — value, unit, context and provenance
- MechanismResult — profile-bound interpretation
- EvidenceGap — missing rule, source or measurement

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Request allocation from evidence with incompatible units or missing provenance; keep the unresolved allocation visible and do not create usable authority.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Variance Pool

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_proposal.

Recovered concept; a current executable allocation contract must be identified before claiming runtime behavior. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Rain - IF / HOW / THEN logic

MJPE-COMplete-20260925-RAIN-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Rain / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A named mechanism is used in a project explanation or proposed computation.

HOW

Bind it to its governing profile, distinguish inputs from interpretations and retain measurements, uncertainty and source lineage.

THEN

Explain the supported contribution and record any missing executable rule without inferring behavior from the name.

TYPED EVIDENCE

- SourceProfile — exact mechanism definition
- InputObservation — value, unit, context and provenance
- MechanismResult — profile-bound interpretation
- EvidenceGap — missing rule, source or measurement

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Try to derive executable behavior from the recovered concept name alone; require a recovered formal definition and a versioned contract before assigning capability.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Rain

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: documented_mechanism_source_pending.

Reference recovered; exact semantics should be tied to the governing source profile. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Umbrella - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-UMBRELLA-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Umbrella / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A named mechanism is used in a project explanation or proposed computation.

HOW

Bind it to its governing profile, distinguish inputs from interpretations and retain measurements, uncertainty and source lineage.

THEN

Explain the supported contribution and record any missing executable rule without inferring behavior from the name.

TYPED EVIDENCE

- SourceProfile — exact mechanism definition
- InputObservation — value, unit, context and provenance
- MechanismResult — profile-bound interpretation
- EvidenceGap — missing rule, source or measurement

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Attempt to collapse an unresolved uncertainty envelope into a scalar certainty; preserve the selected definition and its unresolved implementation boundary.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Umbrella

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: documented_mechanism_source_pending.

Reference recovered; current implementation is not established by name alone. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Smoke - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-SMOKE-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Smoke / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A named mechanism is used in a project explanation or proposed computation.

HOW

Bind it to its governing profile, distinguish inputs from interpretations and retain measurements, uncertainty and source lineage.

THEN

Explain the supported contribution and record any missing executable rule without inferring behavior from the name.

TYPED EVIDENCE

- SourceProfile — exact mechanism definition
- InputObservation — value, unit, context and provenance
- MechanismResult — profile-bound interpretation
- EvidenceGap — missing rule, source or measurement

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Present an ambiguous indicator as a verified observation; retain its evidence class and refuse an unsupported promotion to fact.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Smoke

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: documented_mechanism_source_pending.

Reference recovered; precise rules and runtime support require source reconciliation. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

BlueWater - IF / HOW / THEN logic

MJPE-COMplete-20260925-BLUEWATER-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

BlueWater / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

A local business selects a documented BlueWater service.

HOW

Keep the regional needs, scope and pilot evidence explicit and separate planning packages from deployed workflows.

THEN

Produce the supported service outline and next measurable delivery step.

TYPED EVIDENCE

- MarketProfile — location and customer need
- ServiceBrief — scope and deliverables
- PilotEvidence — observed customer workflow
- DeliveryRecord — approved state and support boundary

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Duplicate a regional template for another business; preserve the client-specific content, permissions and distinction between preview and release.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

BlueWater

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Historical private pilot and website records; the relationship to later Tide Casa branding requires explicit provenance rather than assuming an automatic rename. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

MJ Physics Engineering | Bangel Language | MJos Operating System

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TEAL | Project completeness edition | Local review · 2026-09-25

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PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Lola - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-LOLA-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Lola / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

A customer asks Lola for service or planning guidance.

HOW

Use the approved service information, preserve intentional voice interaction and route unsupported decisions to a human.

THEN

Give a grounded recommendation or clear handoff without inventing booking or payment completion.

TYPED EVIDENCE

- CustomerIntent — stated need and context
- ServiceKnowledge — approved scope and wording
- Recommendation — bounded option and explanation
- HandoffRecord — unresolved question and human owner

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Give the concierge a request beyond its configured service package; retain the question and route the unresolved commitment to a human decision.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Lola

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Historical guided prototype; voice, live service integrations and current hosting should be verified separately. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

MJ Physics Engineering | Bangel Language | MJos Operating System

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PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Leverage Analyst - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-BANGEL-LEVERAGE-ANALYST-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Leverage Analyst / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

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IF / HOW / THEN CONTRACT

IF

A football play or film window is selected for analysis.

HOW

Separate modeled playbook structure from observed video and fallback context, then apply the documented review order and calibration requirements.

THEN

Return only the supported geometry or physics assessment with unresolved observation steps visible.

TYPED EVIDENCE

- PlaybookEntry — model geometry and assignments
- FilmObservation — frame, timestamp and confidence
- ContextRecord — external play-by-play or coaching input
- AnalysisReceipt — measured versus modeled conclusion

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Compare a playbook route with an uncertain film track; preserve calibration, frame provenance and the distinction between modeled and observed movement.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Physics-Based Play Analysis

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical owner-only alpha; playbook models and fallback play-by-play context are not independently verified film observations. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Leverage Physics Lab - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-BANGEL-LEVERAGE-PHYSICS-LAB-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Leverage Physics Lab / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
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IF / HOW / THEN CONTRACT

IF

A learner selects video and supplies a supported calibration or tracking observation.

HOW

Compute the documented measurements from actual inputs and label manual timestamps, coordinates and inaccessible embedded frames.

THEN

Explain the derived educational measurement without implying automated film evidence.

TYPED EVIDENCE

- VideoReference — local or embedded source
- FieldCalibration — landmarks and coordinate transform
- TrackedPoint — time, position and confidence
- EducationalReceipt — calculation and limitations

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Change field calibration while holding pixel tracks constant; show its effect on distance and speed, preserving uncertainty and reproducible timing.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Physics-Based Play Analysis

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical separate alpha; YouTube review used manual timestamps and coordinates, with no automatic access to embedded video frames. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Cybernetic Framework - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-BANGEL-CYBERNETIC-FRAMEWORK-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Cybernetic Framework / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
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IF / HOW / THEN CONTRACT

IF

A system compares an intended outcome with an observed state.

HOW

Represent targets, measurements, differences and permitted corrections through JP while keeping measurement separate from authority.

THEN

Record the admitted response and its observed consequence for reconciliation.

TYPED EVIDENCE

- TargetState — desired bounded outcome
- Measurement — actual state and uncertainty
- AuthorizedCorrection — permitted response
- Reconciliation — observed consequence and retained difference

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Propose a correction that reduces measured error but exceeds allowed authority; reject the action while preserving the analytical result.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel Cybernetic Framework
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Recovered architecture; individual executable pathways need source-level reconciliation. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJos Software Supply Trust - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-MJOS-SOFTWARE-SUPPLY-TRUST-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJos Software Supply Trust / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A software release or signing-key recovery scenario is reviewed.

HOW

Connect the observed build, dependency, authorization and recovery evidence without claiming absent scans or production integration.

THEN

Produce a bounded assurance record and the outstanding pilot/implementation requirements.

TYPED EVIDENCE

- ReleaseArtifact — source and build lineage
- CryptographicInventory — observed dependency evidence
- ReleaseAuthorization — permitted signing or distribution scope
- RecoveryEvidence — rehearsed response and retained history

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Revoke a signing key after a release and replay its old attestation; distinguish historical signature validity from current admission and recovery policy.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJos Software Supply Trust

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_proposal.

Product proposal and pilot definition; current implemented product source must be recovered before making operational claims. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJos Marine Trust - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-MJOS-MARINE-TRUST-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJos Marine Trust / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A marine software artifact moves between supplier, installer and operator.

HOW

Track its source, version, authorization and service evidence across the declared vessel boundary.

THEN

Explain the qualified trust decision and the physical or deployment evidence still required.

TYPED EVIDENCE

- SupplierArtifact — firmware or software provenance
- VesselIntegration — system and version
- ServiceEvent — observed maintenance action
- TrustDecision — evidence-based permitted operation

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Present supplier firmware evidence for the wrong vessel configuration; preserve the mismatch and hold admission despite a valid supplier signature.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJos Marine Trust

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_proposal.

Product concept with historical logo proposals; production deployment and physical assurance are not established. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

QSHM - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-QSHM-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

QSHM / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A hardware concept is included in a system design.

HOW

Specify its intended interfaces and evidence requirements without substituting a software mock-up for physical validation.

THEN

Retain a reviewable hardware proposal and clearly identify the missing device evidence.

TYPED EVIDENCE

- HardwareConcept — intended role and interface
- EvidenceRequirement — bench, device or integration proof
- InterfaceContract — bounded inputs and outputs
- ResearchStatus — proposed, modeled or measured

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Compare a proposed hardware function with the validated software interface; mark missing device measurements and avoid reporting prototype or security-performance results.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

QSHM

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_proposal.

Longer-term hardware proposal; no validated custom device or hardware security claim is established. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

MJ Physics Engineering | Bangel Language | MJos Operating System
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TEAL | Project completeness edition | Local review · 2026-09-25

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PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Trust Gateway - IF / HOW / THEN logic

MJPE-COMplete-20260925-TRUST-GATEWAY-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Trust Gateway / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A hardware concept is included in a system design.

HOW

Specify its intended interfaces and evidence requirements without substituting a software mock-up for physical validation.

THEN

Retain a reviewable hardware proposal and clearly identify the missing device evidence.

TYPED EVIDENCE

- HardwareConcept — intended role and interface
- EvidenceRequirement — bench, device or integration proof
- InterfaceContract — bounded inputs and outputs
- ResearchStatus — proposed, modeled or measured

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Disconnect fleet connectivity during a proposed update; demonstrate the specified hold/recovery contract before inferring a safe physical gateway behavior.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Trust Gateway

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_proposal.

Historical future hardware concept; no completed hardware deployment is established. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJ Marine - IF / HOW / THEN logic

MJPE-COMplete-20260925-MJ-MARINE-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJ Marine / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A vessel or propulsion decision has a defined objective and available data.

HOW

Compare a bounded set of alternatives using the applicable model and preserve sensitivity to uncertain inputs.

THEN

Provide an evidence-qualified engineering comparison and explicit data gaps.

TYPED EVIDENCE

- VesselProfile — operating boundary and duty cycle
- EngineeringAlternative — component or configuration option
- ModelEvidence — assumptions, inputs and validation
- DecisionReport — comparison and remaining uncertainty

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Compare two repower candidates with unequal source quality; expose assumptions, sensitivity and missing vessel measurements before ranking them.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJ Marine

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Historical private website and reference-model package; recommendations remain dependent on actual vessel data and validation. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

MJ Physics Engineering | Bangel Language | MJos Operating System

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TEAL | Project completeness edition | Local review · 2026-09-25

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PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Marine Design-Decision Twin - IF / HOW / THEN logic

MJPE-COMplete-20260925-MARINE-DESIGN-DECISION-TWIN-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Marine Design-Decision Twin / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A marine design decision is selected before hardware commitment.

HOW

Build the declared baseline, compare the specified alternatives and trace assumptions, uncertainty and validation limits.

THEN

Return a bounded model-based recommendation rather than an unmeasured physical-performance guarantee.

TYPED EVIDENCE

- DecisionBoundary — vessel, question and alternatives
- OperatingProfile — load and duty cycle
- TwinResult — propulsion, thermal or energy estimate
- ValidationPlan — measurements needed to test the result

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Change a propulsion constraint after fixing a comparison set; retain the earlier assumptions and produce a new bounded decision receipt.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Marine Design-Decision Twin

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Reference model and consulting offer; physical performance requires independent measurements and project-specific validation. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJ Physics Digital Twins - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-MJ-PHYSICS-DIGITAL-TWINS-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJ Physics Digital Twins / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A physical system requires a design or control comparison.

HOW

Connect the model, measurement and GIN variance while distinguishing known physics, modeled propositions and untested research.

THEN

Present the supported comparison and validation needed for the next engineering decision.

TYPED EVIDENCE

- PhysicalSystem — declared boundary
- ModelState — equations and assumptions
- Observation — measured input and provenance
- DecisionEvidence — comparison and supported conclusion

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Compare the pre-observation circuit model with measured inputs under changed units; preserve the model, conversion and residual evidence separately.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJ Physics Digital Twins

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_proposal.

Historical consulting site and proposal family; known physics, modeled propositions and untested research remain distinct.

Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Effect - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-BANGEL-EFFECT-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Effect / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A Bangel Effect claim is used in a visual or physical-model explanation.

HOW

State the proposed effect, distinguish it from established thermodynamic mechanisms and define a measurement that could confirm or challenge it.

THEN

Retain the research claim at the evidence level actually supported.

TYPED EVIDENCE

- ResearchDefinition — named effect and scope
- PhysicalModel — established laws and assumptions
- PredictedDifference — testable model outcome
- ExperimentalEvidence — observation or unresolved measurement

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Ask a visualization or simulated residual to establish a new physical effect; require independent experimental evidence and preserve the research-only status.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel Effect

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Research identity; a name and visual explanation do not establish a newly observed physical law. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Media Compressor - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-BANGEL-MEDIA-COMPRESSOR-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Media Compressor / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A media transformation or compression candidate is proposed.

HOW

Identify the actual codec implementation, preserve original bytes and compare restoration, quality and performance evidence.

THEN

Record only the demonstrated result; partial AV1 work and third-party compression remain explicitly identified.

TYPED EVIDENCE

- MediaSource — original bytes and provenance
- CodecProfile — implementation and supported subset
- CandidateTrial — proposed reversible path and resource evidence
- DecodeEvidence — independent restoration, quality and performance

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Round-trip a bounded media sample under the declared codec and resource limit; separately report distortion, exactness claims, resource receipts and rollback conditions.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel Media Compressor

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Partial internal JP/AV1 sequence; native AV1 completion, independent decoding and compression superiority were explicitly not established. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel C++ Service Adapter - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-CPP-SERVICE-ADAPTER-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel C++ Service Adapter / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A host application sends a request through the adapter.

HOW

Respect the selected service contract, ownership rules and response semantics rather than assuming complete native-language parity.

THEN

Return the documented result with platform and contract coverage attached.

TYPED EVIDENCE

- AdapterRequest — language and protocol version
- OwnershipContract — lifetimes and resource handling
- ProtocolResult — value or named failure
- InteropEvidence — example, test and platform

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Send a malformed protocol response and unsupported version through the C++ adapter; retain structured failure without silently accepting incompatible data.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel C++ Service Adapter

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical released integration; current compatibility needs its own package and contract evidence. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

JP C++ Decimal Library - IF / HOW / THEN logic

MJPE-COMplete-20260925-CPP-DECIMAL-LIBRARY-TEAL | Recovered historical or requested identity — documentary reconstruction;
execution not rerun

JP C++ Decimal Library / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A supported decimal operation is requested through the native or R interface.

HOW

Preserve representation, rounding and ownership rules and compare behavior with the matching numeric contract.

THEN

Return the precise supported result or named failure without expanding the arithmetic guarantees.

TYPED EVIDENCE

- DecimalValue — exact representation and scale
- NumericOperation — supported operation and rounding rule
- MemoryContract — owner and lifetime
- NumericEvidence — expected result and test profile

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Exercise an exact decimal boundary and an overflow across the C and C++ interfaces; compare values and explicit failure contracts without binary floating-point substitution.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

JP C++ Decimal Library

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Historical integration source; numeric behavior and memory ownership must stay tied to its specific contract. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Rust Service Adapter - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-RUST-SERVICE-ADAPTER-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Rust Service Adapter / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A host application sends a request through the adapter.

HOW

Respect the selected service contract, ownership rules and response semantics rather than assuming complete native-language parity.

THEN

Return the documented result with platform and contract coverage attached.

TYPED EVIDENCE

- AdapterRequest — language and protocol version
- OwnershipContract — lifetimes and resource handling
- ProtocolResult — value or named failure
- InteropEvidence — example, test and platform

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Cancel a service request and then deliver a late response; preserve request identity, protocol validity and cancellation semantics.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel Rust Service Adapter
These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical integration source; separate from a native Rust implementation of the entire language. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

R jpservice - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-R-JPSERVICE-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

R jpservice / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A host application sends a request through the adapter.

HOW

Respect the selected service contract, ownership rules and response semantics rather than assuming complete native-language parity.

THEN

Return the documented result with platform and contract coverage attached.

TYPED EVIDENCE

- AdapterRequest — language and protocol version
- OwnershipContract — lifetimes and resource handling
- ProtocolResult — value or named failure
- InteropEvidence — example, test and platform

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Send a vector containing missing and zero values through the service binding; preserve each distinction or report an unsupported conversion.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

R jpservice

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Historical released integration; not interchangeable with the separately named encrypted-message API. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

R jpdecimal - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-R-JPDECIMAL-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

R jpdecimal / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A supported decimal operation is requested through the native or R interface.

HOW

Preserve representation, rounding and ownership rules and compare behavior with the matching numeric contract.

THEN

Return the precise supported result or named failure without expanding the arithmetic guarantees.

TYPED EVIDENCE

- DecimalValue — exact representation and scale
- NumericOperation — supported operation and rounding rule
- MemoryContract — owner and lifetime
- NumericEvidence — expected result and test profile

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Round-trip a long decimal through the native and R boundaries; preserve exact representation and report unsupported range without silent rounding.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

R jpdecimal

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Historical released integration; precise numeric semantics depend on the native-library contract. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida
TEAL | Project completeness edition | Local review · 2026-09-25

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PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Studios - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-BANGEL-STUDIOS-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Studios / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A musical sequence is created or edited.

HOW

Preserve event timing and user controls, identify the actual synthesis/export path and distinguish browser support from future native plug-in work.

THEN

Present the playable or exported result at the demonstrated capability level.

TYPED EVIDENCE

- BeatDocument — grid, tempo, lanes and events
- AudioProfile — instrument and processing settings
- ProjectState — user controls and saved version
- PlaybackEvidence — timing and export observations

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Reload a project with synchronized drum, bass and vocal lanes; compare tempo, event timing and declared processing without assuming native plug-in equivalence.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel Studios

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical browser studio versions were reported; native plug-in packaging, commerce and production hosting are separate delivery lanes. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Drums - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-BANGEL-DRUMS-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Drums / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A musical sequence is created or edited.

HOW

Preserve event timing and user controls, identify the actual synthesis/export path and distinguish browser support from future native plug-in work.

THEN

Present the playable or exported result at the demonstrated capability level.

TYPED EVIDENCE

- BeatDocument — grid, tempo, lanes and events
- AudioProfile — instrument and processing settings
- ProjectState — user controls and saved version
- PlaybackEvidence — timing and export observations

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Replay a fixed tempo and step pattern, then alter one step; compare deterministic event scheduling and state while keeping browser and native audio lanes distinct.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Physics Drum Sequencer; Drum Sequencer

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical browser versions and downloadable build kits; native audio-host validation remains a separate requirement.

Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

RECOVERED HISTORICAL CONTEXT

- Historical scope: Music/sequencing product family with JP-domain and deterministic runtime lineage.

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Infinity - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-BANGEL-INFINITY-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Infinity / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

The named audio-processing profile is applied to an eligible studio input.

HOW

Trace the actual processing path and controls and compare output with the original rather than inferring superiority from the profile name.

THEN

Document the supported studio result and any independent-validation gap.

TYPED EVIDENCE

- AudioInput — source and provenance
- ProcessingProfile — named controls and limits
- RenderedOutput — format and timing
- ComparisonEvidence — observed change and fidelity

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Apply the named processing profile to the same saved input twice; record the specified parameters and avoid inferring an undocumented algorithm from the product name.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel Infinity

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Profile named in the studio release record; a separately installed product or independently validated processing advantage is not established. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Compiler Lab - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-BANGEL-COMPILER-LAB-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Compiler Lab / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A compiler-lab source or codec stage is evaluated.

HOW

Compile only the supported profile through Elsa, preserve JP identity and distinguish completed development slices from blocked dependencies.

THEN

Produce the profile-qualified artifact and current implementation status.

TYPED EVIDENCE

- SourceProfile — admitted syntax and version
- TypedRepresentation — JP-IR identity and constraints
- DevelopmentStage — implemented, partial or held
- ConformanceEvidence — exact fixture and expected result

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Compile an unsupported backend or codec request through Elsa; preserve a precise unsupported result instead of claiming all staged backends are implemented.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel Compiler Lab

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Historical private development build; unfinished codec, self-hosting and external verification work must stay visible. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Debt Analytics - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-BANGEL-DEBT-ANALYTICS-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Debt Analytics / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

An analytical construct is estimated from declared inputs.

HOW

Use one versioned construct definition and a traceable scoring policy, keeping calibration evidence separate from model design.

THEN

Return a qualified estimate and the evidence needed before decision or performance claims.

TYPED EVIDENCE

- ConstructDefinition — concept and version
- ComponentMeasure — data, units and direction
- ScoringPolicy — normalization, weights and aggregation
- ValidationEvidence — calibration and uncertainty

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Vary one debt-model input with fixed calibration rules; show how scores change and keep exploratory prioritization separate from a validated financial conclusion.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel Debt Analytics

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Historical architecture and specifications; this distinct analytics lineage must not be presented as the current executable language. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Construct Framework - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-CONSTRUCT-FRAMEWORK-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Construct Framework / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

An analytical construct is estimated from declared inputs.

HOW

Use one versioned construct definition and a traceable scoring policy, keeping calibration evidence separate from model design.

THEN

Return a qualified estimate and the evidence needed before decision or performance claims.

TYPED EVIDENCE

- ConstructDefinition — concept and version
- ComponentMeasure — data, units and direction
- ScoringPolicy — normalization, weights and aggregation
- ValidationEvidence — calibration and uncertainty

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Reverse an input orientation and remove a required weight; preserve the normalization rule and expose the missing aggregation prerequisite.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Construct Framework

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: `historical_report_not_fresh_verification`.

Proposed architecture; a shared interface does not by itself prove calibration or validated predictions. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

BlueWater Studio - IF / HOW / THEN logic

MJPE-COMplete-20260925-BLUEWATER-STUDIO-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

BlueWater Studio / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A client defines a website or application need.

HOW

Map it to the supported product lane and documented delivery workflow, preserving the distinction between approved builds and historical prototypes.

THEN

Present a traceable preview or bounded delivery result with its current evidence.

TYPED EVIDENCE

- ClientBrief — business need and scope
- ProductConfiguration — selected workflow and presentation
- DeliveryRecord — build, preview and release state
- OperatingEvidence — observed capability and limits

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Promote a client preview through a proposed release workflow; require the correct client identity and approved content before recording a published result.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

BlueWater Studio

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Planning and prototype history; do not conflate with the current C#/Bangel Engineering Studio or approved Tide Casa deployment. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Document Library - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-BANGEL-DOCUMENT-LIBRARY-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Document Library / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A document or historical collection is added to the library.

HOW

Preserve its source identity and coverage, apply current display terminology and distinguish indexed text from recovered original bytes.

THEN

Provide searchable, traceable records with missing sources and historical boundaries visible.

TYPED EVIDENCE

- DocumentIdentity — project, color and source version
- PageReference — original page and derived edition
- SearchEntry — indexed text and provenance
- CoverageRecord — included, excluded or unavailable source

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Search the same term by color, project and page; preserve source lineage and distinguish historical archive records from rewritten documentation.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel Document Library

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_report_not_fresh_verification.

Historical private archive reported 340 documents and 28,902 searchable pages; full bytes and access are separate from this chat-index recovery. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Bangel Visual Effects - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-BANGEL-VISUAL-EFFECTS-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Bangel Visual Effects / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

The Bangel Visual Effects identity is prepared for the catalog.

HOW

Recover its original scope and compare it with Lecanto and Bangel Effect without assuming they are the same product.

THEN

Show the requested identity with a source-recovery status until its independent capabilities are grounded.

TYPED EVIDENCE

- ProjectIdentity — user-confirmed name
- SourceReference — pending original specification
- ProposedScope — unconfirmed product boundary
- RecoveryGap — evidence still required

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Compare a transformation against its source image and requested effect; document the exact transformation and keep scientific-effect claims outside unverified VFX scope.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Bangel visual effects

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: source_recovery_pending.

Historical project name confirmed by the user; exact source scope remains pending. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Silent Guardian - IF / HOW / THEN logic

MJPE-COMplete-20260925-SILENT-GUARDIAN-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Silent Guardian / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A transaction supplies an eligible observation under a declared Silent Guardian profile.

HOW

Bind telemetry origin and provenance, update the deterministic estimate within its bounds, and retain the observed outcome and any proposed correction separately.

THEN

Record the refinement and evidence receipt; leave unsupported integration and physical claims explicit.

TYPED EVIDENCE

- TelemetryRecord — authenticated or simulated origin, measurement and provenance
- RefinementState — deterministic estimate and covariance
- BoundedCorrection — proposed change and declared authority
- ObserverReceipt — baseline, evidence and preserved outcome

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Mix authenticated telemetry with simulated samples and exceed a correction envelope; preserve provenance, enforce bounds and report incomplete instrumentation.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Silent Guardian

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_reference_baseline_partial_integration.

Historical baseline package and tests were reported; their archives and tests were not freshly recovered or rerun in this pass.

Universal Elsa/JP/Joanna instrumentation and full active-runtime unification remained incomplete in the later review. Kalman

refinement was deterministic estimation; fractal stability was a hypothesis and superdense coding was an ideal simulation, without physical-entanglement or performance-advantage evidence.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Aviator Cloud - IF / HOW / THEN logic

MJPE-COMplete-20260925-AVIATOR-CLOUD-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Aviator Cloud / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

The Aviator Cloud project lane is described or linked.

HOW

Reconcile Aviator workspace, Bangel Cloud and Shekina roles while preserving their separate implementation and hosting evidence.

THEN

Present the requested cloud-facing identity and the exact source/deployment gaps.

TYPED EVIDENCE

- WorkspacelIdentity — Aviator product lane
- ServiceBoundary — local or hosted responsibility
- ContinuityReference — related Shekina role
- DeploymentEvidence — actual connected environment

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Describe a cloud task without a recovered deployment contract; retain the proposed workspace relationship and mark hosting, execution and continuity support as unresolved.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Aviator Cloud

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: source_recovery_pending.

Aviator and cloud roles are historically documented; the exact combined product source and deployment remain pending.

Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJos Neurological Model - IF / HOW / THEN logic

MJPE-COMPLETE-20260925-MJOS-NEUROLOGICAL-MODEL-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJos Neurological Model / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A neural or recalled pattern contributes to a proposed decision.

HOW

Retain observations, compare context and alternatives, preserve lowercase research states separately from runtime states and apply independent supervision.

THEN

Record a qualified software result without treating biological analogy as biological validation.

TYPED EVIDENCE

- Observation — retained input and context
- MemoryCandidate — recalled relation with uncertainty
- PredictiveProposal — candidate outcome
- SupervisionDecision — independent gate and trace

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Retrieve a similar memory in a different context; preserve relation and uncertainty, then require independent supervision before any proposed decision is admitted.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJos Neurological Model

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: source_recovery_pending.

Related Neural Net, Memory Recall and L5 histories are recovered; the exact older umbrella specification remains pending.

This is software research, not clinical or biological validation. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Mermaid Quantum Blockchain - IF / HOW / THEN logic

MJPE-COMplete-20260925-MERMAID-QUANTUM-BLOCKCHAIN-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Mermaid Quantum Blockchain / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System
Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A proposed ledger instruction identifies its asset, account, exact amount and admitted scope.

HOW

Preserve the applicable profile, compare conservation and reconciliation rules, and separate internal reference behavior from external transfer or financial authority.

THEN

Record the profile-qualified result; retain missing integration and external-operation requirements.

TYPED EVIDENCE

- LedgerInstruction — asset, account and intended operation
- ExactAmount — units, scale and conservation rule
- AdmissionEvidence — identity, scope and validated conditions
- LedgerReceipt — before/after state, evidence and reconciliation

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Map a Mermaid obligation to a ledger record; require an explicit semantic adapter and do not infer quantum security or a unified deployed chain.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Mermaid quantum blockchain

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: related_sources_integration_pending.

Component histories are recovered separately; a completed integrated quantum blockchain, quantum-security advantage or production network has not been established. Historical evidence has not been rerun in this discovery pass.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

Perth - IF / HOW / THEN logic

MJPE-COMplete-20260925-PERTH-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

Perth / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

A system compares an intended outcome with an observed state.

HOW

Represent targets, measurements, differences and permitted corrections through JP while keeping measurement separate from authority.

THEN

Record the admitted response and its observed consequence for reconciliation.

TYPED EVIDENCE

- TargetState — desired bounded outcome
- Measurement — actual state and uncertainty
- AuthorizedCorrection — permitted response
- Reconciliation — observed consequence and retained difference

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Import a historical module into the consolidation map; preserve its historical status and prevent documentation inclusion from marking it active or integrated.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

Perth

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: documented_successor_framework_proposal.

Recovered historical specification or architecture; no fresh product execution is claimed.

SOURCE REFERENCES

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

TEAL | Project completeness edition | Local review · 2026-09-25

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PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.

MJos Quantum: Living Water - IF / HOW / THEN logic

MJPE-COMplete-20260925-LIVING-WATER-TEAL | Recovered historical or requested identity — documentary reconstruction; execution not rerun

MJos Quantum: Living Water / Teal

MJ Physics Engineering | Bangel Language | MJos Operating System

Owned and operated by Michael Bangel | Clearwater, Florida

IF / HOW / THEN CONTRACT

IF

An existing water facility or community scenario supplies its scale, measurements, engineering assumptions and operating limits.

HOW

Model water and energy flows, expose cost assumptions, capture variance and QSHM evidence, and evaluate bounded recovery proposals under operator authority.

THEN

Produce a traceable design or retrofit scenario, state what is verified, and hold physical deployment claims until their own evidence exists.

TYPED EVIDENCE

- FacilityContext — existing process, scale and purpose
- OperatingEvidence — units, calibration, uncertainty and provenance
- ScenarioBudget — assumptions and projections separated from verified savings
- WaterSystemReceipt — accepted or held outcome, authority and lineage

FAILURE AND MISSINGNESS

Preserve UNKNOWN separately from zero and source identity separately from truth. Missing required evidence remains a typed error or HOLD under the named profile. Failed permission remains DENY.

PROJECT CHALLENGE

Compare a projected retrofit saving with verified facility measurements; preserve the stated zero verified savings and require independent water-quality and hardware evidence before physical deployment claims.

RECONCILIATION

Append later results or discrepancies to the original evidence; do not rewrite a prediction into an earlier observation.

DISCOVERY NAMES

MJos Living Water; Living Water

These names aid search; current compiler naming remains Elsa.

SOURCE STATUS AND LIMITS

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun.

Recovered status: historical_website_and_reference_design_not_physical_validation.

Historical website and reference-design evidence; no physical water-quality, hardware-performance or cyber-survival validation. The 57% savings target was explicitly \$0 verified savings. A later user correction focuses the platform on retrofitting existing facilities.

SOURCE REFERENCES

PUBLIC SOURCE NOTE

Recovered historical design and project records informed this documentary profile. Original conversations remain private; current implementation and reported historical tests were not rerun. This edition publishes the reconciled project description, without redistributing private messages or unverified release URLs.