

# Grey papers

## Terminology and reconciliation

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

120 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.

*Red Pages historical label is superseded by Grey Pages*

This 120-page reference defines typed terms, aliases, syntax identities, family roles, product identities, formula names, document classes, evidence ceilings, and semantic equivalences. Multiple labels never merge authority or convert a hypothesis into physical truth.

**Coverage:** 952 glossary entries; 8 entries per page on pages 2-120.

**Authority rule:** aliases, symbols, syntax, names, and document colors do not create independent authority.

Definitive categorized terminology and alias reference

**MJ [ROOT]**

The founder-governed project root and final bounded decision authority.  
*Aliases: MJ root; project root | References: | Ceiling: REFERENCE\_ONLY*

**Bangel [LANGUAGE]**

Typed declarative source and measurement-expression layer.  
*Aliases: Bangel; Bangel | References: | Ceiling: REFERENCE\_ONLY*

**Elsa [SEMANTIC]**

Recovers human purpose and semantic meaning without execution authority.  
*Aliases: ELSA | References: | Ceiling: REFERENCE\_ONLY*

**JP [REPRESENTATION]**

Canonical mathematical, algorithmic, topology, and architecture representation.  
*Aliases: JP CAPO | References: | Ceiling: REFERENCE\_ONLY*

**Mika / MK [PHYSICS]**

Classifies physics applicability, units, scale, conservation, and uncertainty.  
*Aliases: MK; Mika | References: | Ceiling: REFERENCE\_ONLY*

**JO [VERIFICATION]**

Verifies types, formulas, evidence, tests, receipts, and bounded execution.  
*Aliases: legacy runtime alias retained only in predecessor lineage | References: | Ceiling: REFERENCE\_ONLY*

**M3 / Mary [ROUTING]**

Bounded routing, load balancing, gateway, and resource-pool stewardship without authority minting.  
*Aliases: M3; Mary | References: | Ceiling: REFERENCE\_ONLY*

**Pearl [SIMULATION]**

Hypothetical information-retention and simulation object; not a physical container in Day-0.  
*Aliases: PEARL | References: | Ceiling: REFERENCE\_ONLY*

Definitive categorized terminology and alias reference

DRO [MEASUREMENT]

Typed collection and measurement reference object with R/R1/R2 evidence states.  
Aliases: DRO unit | References: | Ceiling: REFERENCE\_ONLY

Sister [PREDICTION\_CONTAINMENT]

Predictive digital-twin evidence and physical-containment candidate topology.  
Aliases: SISTER | References: | Ceiling: REFERENCE\_ONLY

EVE [VARIANCE]

Variance, screen, egress, evaporation, and residual observation.  
Aliases: EVE | References: | Ceiling: REFERENCE\_ONLY

Mermaid [ACCOUNTING]

Accounting, reconciliation, statements, exposure, and evidence custody.  
Aliases: MERMAID | References: | Ceiling: REFERENCE\_ONLY

Shiva [INTERNAL\_FINANCE]

Internal capital administration and Day-1 banking ecosystem objective.  
Aliases: SHIVA | References: | Ceiling: REFERENCE\_ONLY

SHIVAS [INTERNAL\_UNIT]

Internal settlement or capital-reflection representation; not outside-market cryptocurrency.  
Aliases: SHIVAS internal | References: | Ceiling: REFERENCE\_ONLY

Unknown [STATE]

Missing or unresolved evidence; never zero, permission, harmless, or truth.  
Aliases: UNKNOWN | References: | Ceiling: REFERENCE\_ONLY

R [STATE]

Pre-observational or candidate state before adequate observation.  
Aliases: R state | References: | Ceiling: REFERENCE\_ONLY

Definitive categorized terminology and alias reference

- R0 [STATE]

Anticipation or pre-request modeling state.  
*Aliases: R0 anticipation | References: | Ceiling: REFERENCE\_ONLY*
- R1 [STATE]

Unidentified transitional or evidence-incomplete observation state.  
*Aliases: R1 hold | References: | Ceiling: REFERENCE\_ONLY*
- N1 [NODE]

First prediction-based node in the normalized topology.  
*Aliases: N1 prediction | References: | Ceiling: REFERENCE\_ONLY*
- R2 [STATE]

Living static representation supported by the required evidence and receipts.  
*Aliases: R2 living static | References: | Ceiling: REFERENCE\_ONLY*
- Blue Page [DOCUMENT]

One-page legal-style technical brief for a formula, family, object, or product.  
*Aliases: BP | References: | Ceiling: REFERENCE\_ONLY*
- Yellow Page [DOCUMENT]

One-page visual and measurement blueprint bundle.  
*Aliases: YP | References: | Ceiling: REFERENCE\_ONLY*
- Teal Page [DOCUMENT]

One-page IF/HOW/THEN logic brief.  
*Aliases: TP | References: | Ceiling: REFERENCE\_ONLY*
- Brown Page [DOCUMENT]

One-page R-lifecycle and intent pathway brief.  
*Aliases: BR | References: | Ceiling: REFERENCE\_ONLY*

Definitive categorized terminology and alias reference

Purple Page [DOCUMENT]

One-page syntax representation tied to a Blue Page.  
Aliases: PP | References: | Ceiling: REFERENCE\_ONLY

Angel Report [DOCUMENT]

One-page Angel interaction report tied to a Blue Page.  
Aliases: AR | References: | Ceiling: REFERENCE\_ONLY

Grey Pages [DOCUMENT]

Definitive glossary, alias, index, and reference system.  
Aliases: Glossary Red Pages superseded wording | References: | Ceiling: REFERENCE\_ONLY

Orange Pages [DOCUMENT]

Potential IP pathway and counsel-triage documentation.  
Aliases: IP orange pages | References: | Ceiling: REFERENCE\_ONLY

F-001 R1 transition [FORMULA]

R1 is the unidentified transitional phase. Expression: R0 -> R1  
Aliases: F-001 | References: Bangel ,JP,JO | Ceiling: state

F-002 R2 transition [FORMULA]

R2 is the immutable living static representation. Expression: R1 --validated--> R2  
Aliases: F-002 | References: JP,MK,JO | Ceiling: state

F-003 Unknown invariant [FORMULA]

Unknown may not coerce to zero, pass, harmlessness, or permission. Expression: UNKNOWN != 0  
Aliases: F-003 | References: Bangel ,JO,WATER | Ceiling: logical

F-004 Mass inflection [FORMULA]

Pre-observational model floor, not a universal minimum or product mass. Expression: m\_floor = 23 mg  
Aliases: F-004 | References: JP,MK,EVE,JO | Ceiling: mass

Definitive categorized terminology and alias reference

- F-005 Noise smoothing [FORMULA]**

Drip-level smoothing. Expression:  $n\_bar[t] = 0.9*n\_bar[t-1] + 0.1*n[t]$   
Aliases: F-005 | References: SISTER,JO,MK | Ceiling: dimensionless
- F-006 Trend estimator [FORMULA]**

One-third trend update. Expression:  $n\_dot[t] = (2/3)*n\_dot[t-1] + (1/3)*(n\_bar[t]-n\_bar[t-1])/dt$   
Aliases: F-006 | References: SISTER,JO,MK | Ceiling: 1/time
- F-007 Anti-spike gate [FORMULA]**

Single spike cannot trigger full reweighting. Expression: support>=3 of 5 AND 3 qualified windows  
Aliases: F-007 | References: SISTER,ANGELS,JO | Ceiling: logical
- F-008 Prediction gain [FORMULA]**

Prediction influence decays across the nine-node path. Expression:  $g\_i = 0.1*(2/3)^{(i-1)}$   
Aliases: F-008 | References: JP,SISTER,JO | Ceiling: dimensionless
- F-009 Covariance update [FORMULA]**

Positive-semidefinite sequential covariance. Expression:  $\Sigma\_next = 0.9*\Sigma\_prev + 0.1*e*e^T$   
Aliases: F-009 | References: JP,MK,JO | Ceiling: normalized^2
- F-010 Shadow depth [FORMULA]**

Uncertainty depth. Expression:  $H = \sqrt{\lambda\_max(\Sigma)}$   
Aliases: F-010 | References: MK,SISTER,EVE | Ceiling: normalized
- F-011 Shadow growth rate [FORMULA]**

Rate of uncertainty expansion or resolution. Expression:  $v\_shadow = (H\_next-H\_prev)/dt$   
Aliases: F-011 | References: MK,SISTER,JO | Ceiling: normalized/time
- F-012 Front-end allocation [FORMULA]**

Exact initial N1 logical allocation. Expression:  $a0 = 48383829/100000000$   
Aliases: F-012 | References: Bangel ,JP,JO,M3 | Ceiling: ratio

Definitive categorized terminology and alias reference

- F-013 Front-end reserve [FORMULA]

Exact logical reserve. Expression:  $r0 = 51616171/100000000$   
Aliases: F-013 | References: JP,JO,M3 | Ceiling: ratio
- F-014 Bounded allocation update [FORMULA]

Nonnegative, sum-to-one, per-step change  $\leq 0.1$ . Expression:  $w_{next} = projection((2/3)w + (1/3)w_{target})$   
Aliases: F-014 | References: JP,JO,M3 | Ceiling: ratio vector
- F-015 Request memory [FORMULA]

Predicted request memory. Expression:  $M_{request} = \lambda_{hat} * bytes_{per\_request} * latency_{hat}$   
Aliases: F-015 | References: JO,M3,MJOS | Ceiling: bytes
- F-016 Memory preallocation [FORMULA]

Preallocate before reserve exhaustion. Expression:  $M_{pre} = M_{request} + M_{sync} + M_{residual} + M_{evidence} + M_{headroom}$   
Aliases: F-016 | References: JO,M3,SISTER | Ceiling: bytes
- F-017 Hard flush [FORMULA]

No silent deletion or uncleared reuse. Expression: QUIESCE -> SEAL -> CHECKPOINT -> DETACH -> RECLAIM  
Aliases: F-017 | References: JO,M3,MJOS | Ceiling: state sequence
- F-018 Charge balance [FORMULA]

Static-intake charge accounting. Expression:  $dQ/dt = I_{intake} - I_{leak} - I_{release}$   
Aliases: F-018 | References: JP,MK,EVE,JO | Ceiling: charge/time
- F-019 Capacitor energy [FORMULA]

Valid only for evidenced constant capacitance. Expression:  $E = 0.5 * C * V^2$   
Aliases: F-019 | References: JP,MK,JO | Ceiling: energy
- F-020 General stored energy [FORMULA]

General charge-storage energy. Expression:  $E = \int V(q) dq$   
Aliases: F-020 | References: JP,MK | Ceiling: energy

Definitive categorized terminology and alias reference

F-021 Energy balance [FORMULA]

Energy residual must be inside uncertainty. Expression:  $r_E = E_{in} - \Delta E_{storage} - E_{delivered} - E_{containment} - E_{loss}$   
Aliases: F-021 | References: MK,JO,MERMAID | Ceiling: energy

F-022 Mass balance [FORMULA]

Physical mass conservation. Expression:  $r_M = M_{initial} + M_{inputs} - M_{final} - M_{outputs}$   
Aliases: F-022 | References: MK,EVE,JO,MERMAID | Ceiling: mass

F-023 EVE screen balance [FORMULA]

Screen capture never assumes perfect retention. Expression:  $M_{screen\_in} = M_{captured} + M_{passed} + M_{retained} + r_{screen}$   
Aliases: F-023 | References: EVE,MK,JO,MERMAID | Ceiling: mass

F-024 EVE evaporation [FORMULA]

Evaporative mass from flux across area and time. Expression:  $M_{evap} = \int \int J_m \, dA \, dt$   
Aliases: F-024 | References: EVE,MK,JO | Ceiling: mass

F-025 Upward force [FORMULA]

Upward motion requires positive conservative lower bound. Expression:  $F_z = qE_z + F_b - mg - D_z - F_{contact} - F_{adhesion}$   
Aliases: F-025 | References: MK,EVE,BELLE | Ceiling: force

F-026 Coordinate mapping [FORMULA]

Normalized topology to profile physical coordinates. Expression:  $p_P(x,y,z) = o_P + x \cdot a_P + y \cdot b_P + z \cdot c_P$   
Aliases: F-026 | References: JP,MK,BELLE,JO | Ceiling: length vector

F-027 Sister physical umbrella count [FORMULA]

Canonical pre-Pearl physical containment count; requires measured profile-specific capacity and headroom. Expression:  $N_U = \max_k \text{ceil}(E_k / ((1-h_k) \cdot C_{Uk}))$   
Aliases: F-027 | References: SISTER,MK,JO,M3 | Ceiling: count

F-028 Byte balance [FORMULA]

Discrete memory reconciliation requires zero residual unless transformed. Expression:  $r_B = B_{alloc} - B_{active} - B_{released} - B_{retained} - B_{exported} - B_{compacted}$   
Aliases: F-028 | References: JO,M3,MERMAID | Ceiling: bytes

Definitive categorized terminology and alias reference

F-029 Residual consequence [FORMULA]

Time-weighted residual memory consequence. Expression:  $C_B = \int B_{residual}(t)dt$   
Aliases: F-029 | References: JO,M3,MERMAID | Ceiling: byte-seconds

F-030 Protected liquidity [FORMULA]

Liquidity first. Expression:  $L_{protected\_H} = O_{near\_H+R\_emergency\_H+R\_tax\_H+R\_fees\_H+U\_cash\_H}$   
Aliases: F-030 | References: SHIVA,MERMAID,MK,JO | Ceiling: currency

F-031 Investable surplus [FORMULA]

Only surplus may enter risk analysis. Expression:  $S_{investable\_L} = \max(0,L_{available\_L}-L_{protected\_H})$   
Aliases: F-031 | References: SHIVA,MERMAID,JO | Ceiling: currency

F-032 Risk-capital ceiling [FORMULA]

Hard minimum across constraints. Expression:  $A_{risk\_max} = \min(S_{investable\_L},L_{risk},L_{product},L_{regulatory},L_{custody},L_{concentration})$   
Aliases: F-032 | References: SHIVA,MERMAID,MK,MJ | Ceiling: currency

F-033 Portfolio concentration [FORMULA]

Asset concentration. Expression:  $C_i = \frac{abs(V_{i\_H})}{V_{portfolio\_L}}$   
Aliases: F-033 | References: SHIVA,MERMAID,JO | Ceiling: ratio

F-034 Portfolio variance [FORMULA]

Portfolio variance with evidenced covariance. Expression:  $\sigma_p^2 = w^T \Sigma w$   
Aliases: F-034 | References: SHIVA,MERMAID,MK | Ceiling: return^2

F-035 Capital friction [FORMULA]

Typed transactional friction. Expression:  $F_{capital\_H} = fees+spread+slippage+tax+custody+compliance+latency$   
Aliases: F-035 | References: MK,SHIVA,MERMAID | Ceiling: currency

F-036 Opportunity lower bound [FORMULA]

Conservative opportunity result. Expression:  $O_L = Return\_L-F_{capital\_H}-RiskPenalty\_H-LiquidityPenalty\_H-RegulatoryUncertainty\_H$   
Aliases: F-036 | References: SHIVA,MK,MERMAID,MJ | Ceiling: currency

Definitive categorized terminology and alias reference

F-037 Abundance objective [FORMULA]

Only valid with precommitted weights and compatible scales. Expression:  $A = \sum(\alpha_i \cdot P_i) - \sum(\beta_j \cdot N_j)$   
Aliases: F-037 | References: SHIVA,MK,JO,MJ | Ceiling: declared score

F-038 SHIVAS eligible value [FORMULA]

Internal valuation lower bound. Expression:  $V_{eligible\_L} = \max(0, V_{verified\_L-L\_known\_H-U\_valuation\_H})$   
Aliases: F-038 | References: SHIVA,MERMAID,MJ | Ceiling: currency

F-039 SHIVAS ceiling [FORMULA]

Only when backing, rights, classification, and evidence are known. Expression:  $N_{max} = \text{floor}(V_{eligible\_L/B\_unit\_H})$   
Aliases: F-039 | References: SHIVA,MERMAID,MJ | Ceiling: count

F-040 MK state model [FORMULA]

General physics state and observation representation. Expression:  $x[t+1] = F(x[t], u[t], \theta, e[t]) + w[t]$ ;  $y[t] = H(x[t]) + v[t]$   
Aliases: F-040 | References: MK,JP,JO | Ceiling: typed state

F-041 Dimensional integrity [FORMULA]

Every physical equality must be dimensionally valid. Expression:  $\text{dim}(\text{LHS}) = \text{dim}(\text{RHS})$   
Aliases: F-041 | References: MK,JO | Ceiling: dimension equality

F-042 Conservation residual [FORMULA]

Pass only when  $|r_q| \leq U_q$ . Expression:  $r_q = q_{in} - q_{out} - \Delta q - q_{loss}$   
Aliases: F-042 | References: MK,JO,EVE,MERMAID | Ceiling: quantity

F-043 Pearl simulation ellipsoid volume [FORMULA]

Hypothetical pearl-shaped simulation geometry; no physical container or dimension claim. Expression:  $V_P = (4/3) \cdot \pi \cdot a \cdot b \cdot c$   
Aliases: F-043 | References: MK,SISTER,EVE,JO | Ceiling: volume

F-044 Pearl simulation surface-area approximation [FORMULA]

Hypothetical simulation geometry approximation; no physical wall or surface claim. Expression:  $A_P \sim 4 \cdot \pi \cdot ((a^p \cdot b^p + a^p \cdot c^p + b^p \cdot c^p)/3)^{(1/p)}$ ,  $p=1.6075$   
Aliases: F-044 | References: MK,BELLE,JO | Ceiling: area

Definitive categorized terminology and alias reference

F-045 Pearl simulation exposure ratio [FORMULA]

Simulation comparison metric only; not physical breach or exposure evidence. Expression:  $\chi_P = A_P / V_P$   
Aliases: F-045 | References: MK,BELLE,EVE | Ceiling: 1/length

F-046 Pearl simulation capacity slack [FORMULA]

Remaining typed simulation/information capacity after declared headroom. Expression:  $S_{Pk} = (1 - h_{Pk}) * C_{Pk} - L_{Pk}$   
Aliases: F-046 | References: SISTER,EVE,M3,MK,JO | Ceiling: quantity\_k

F-047 Pearl simulation saturation ratio [FORMULA]

Simulation saturation condition only; not physical breach resistance. Expression:  $\beta_P = \max_k(L_{Pk} / ((1 - h_{Pk}) * C_{Pk}))$   
Aliases: F-047 | References: MK,ANGELS,BELLATRIX,JO | Ceiling: ratio

F-048 Pearl simulation object count [FORMULA]

Number of hypothetical simulation objects needed for declared information/resource dimensions. Expression:  $N_P = \max_k \lceil E_k / ((1 - h_{Pk}) * C_{Pk}) \rceil$   
Aliases: F-048 | References: SISTER,EVE,M3,MK,JO | Ceiling: count

F-049 Pearl simulation accounting balance [FORMULA]

Simulation/accounting conservation across retained, transferred, escaped-observation, and stored information. Expression:  
 $r_{Pk} = q_{in-Pk} - q_{captured-Pk} - q_{transferred-Pk} - q_{retained-Pk} - q_{escaped-Pk} - \Delta q_{stored-Pk}$   
Aliases: F-049 | References: EVE,MK,JO,MERMAID | Ceiling: quantity\_k

F-050 Pearl simulated transfer opportunity [FORMULA]

Simulated transfer opportunity bounded by declared logical capacities; no physical transfer. Expression:  $T_{ij,k} = \min([S_{jk}]_+, [Q_{ik} - Q_{reserve\_ik}]_+, C_{route\_k})$   
Aliases: F-050 | References: SISTER,EVE,M3,MK,JO | Ceiling: quantity\_k

F-051 Pearl simulated regeneration vector [FORMULA]

Hypothetical opportunity vector; creates no physical or capital value. Expression:  $G_P = [G_{mass}, G_{energy}, G_{bytes}, G_{time}, G_{capital}]$   
Aliases: F-051 | References: EVE,MERMAID,SHIVA,MK,JO | Ceiling: typed vector

F-052 Pearl acoustic simulation wavelength [FORMULA]

Acoustic simulation variable under declared medium assumptions; no cohesion claim. Expression:  $\lambda_{ac} = c_{medium} / f_{control}$   
Aliases: F-052 | References: MK,EVE,JO | Ceiling: length

Definitive categorized terminology and alias reference

F-053 Pearl acoustic simulation intensity [FORMULA]

Reference simulation intensity only; no physical actuation claim. Expression:  $I_{ac}=p_{rms}^2/(\rho_{medium}*c_{medium})$   
Aliases: F-053 | References: MK,EVE,JO | Ceiling: power/area

F-054 Pearl acoustic simulation energy [FORMULA]

Hypothetical energy accounting for a future separately permitted experiment. Expression:  $E_{ac}=\int I_{ac}*A_{effective}dt$   
Aliases: F-054 | References: MK,EVE,MERMAID,JO | Ceiling: energy

F-055 Pearl acoustic simulation observability gate [FORMULA]

Simulation input must be measurable to be accounted for; observability is not actuation. Expression:  $f_{sample} \geq 2*\gamma*f_{control}$  AND  $f_{control}$  in calibrated\_band AND  $SNR_{f} \geq SNR_{min}$   
Aliases: F-055 | References: MK,JO,ANGELS | Ceiling: logical

F-056 Pearl acoustic simulation signal-to-noise [FORMULA]

Simulation signal-to-noise ratio; advisory and non-authorizing. Expression:  $SNR_f=P_{signal}(f)/P_{noise}(f)$   
Aliases: F-056 | References: MK,SISTER,EVE,JO | Ceiling: ratio

F-057 Pearl acoustic simulation transfer function [FORMULA]

Hypothetical or measured-later response mapping; no physical Pearl article exists. Expression:  $H_P(f)=Y_P(f)/U_P(f)$   
Aliases: F-057 | References: MK,EVE,JO | Ceiling: output/input

F-058 Pearl acoustic simulation setpoint [FORMULA]

Simulation candidate only; no physical control setpoint. Expression:  $f^*=\operatorname{argmin}_{\{f \text{ in } F_{safe}\}}(J_{breach}+\lambda*E_{ac}+\lambda*T_{transfer})$   
Aliases: F-058 | References: MK,BELLE,JO,MJ | Ceiling: frequency

F-059 Bounded Pearl acoustic simulation adjustment [FORMULA]

One-third-damped simulation update only. Expression:  $f_{next}=\operatorname{clip}((2/3)f+(1/3)f_{target},f-df_{max},f+df_{max},f_{min},f_{max})$   
Aliases: F-059 | References: MK,JO,M3 | Ceiling: frequency

F-060 Pearl simulation registry reconciliation [FORMULA]

Registry count reconciliation for simulation records, not physical containers. Expression:  $r_{registry}=N_{allocated}+N_{received}-N_{transferred}-N_{closed}-N_{active}$   
Aliases: F-060 | References: MERMAID,SHIVA,M3,JO | Ceiling: count

Definitive categorized terminology and alias reference

F-061 Bangel Sheet cell state [FORMULA]

Every cell is a governed measurement object, not an untyped mutable value. Expression:  $C_{ij} = \langle \text{value}, \text{unit}, \text{uncertainty}, \text{formula}, \text{revision}, \text{lineage}, \text{authority}, \text{evidence} \rangle$   
Aliases: F-061 | References: Bangel ,JP,MK,JO | Ceiling: typed object

F-062 Affected dependency closure [FORMULA]

Only cells reachable from changed cells are eligible for incremental recomputation. Expression:  $A(U) = \text{Reachable\_G}(U)$   
Aliases: F-062 | References: JP,JO,M3 | Ceiling: cell set

F-063 Incremental recompute cost [FORMULA]

Measured compute and transfer work for an affected dependency closure. Expression:  $C_{\text{recalc}} = \sum_{\{v \text{ in } A\}} c_v + \sum_{\{e \text{ in } E(A)\}} t_e$   
Aliases: F-063 | References: MK,JO,MERMAID | Ceiling: work units

F-064 Concurrent edit arrival [FORMULA]

Aggregate update arrival rate from measured concurrent-user activity. Expression:  $\lambda_{\text{total}} = N_{\text{users}} * \lambda_{\text{user}}$   
Aliases: F-064 | References: JO,M3,MK | Ceiling: operations/time

F-065 Spreadsheet service utilization [FORMULA]

Capacity utilization for W deterministic workers. Expression:  $\rho = \lambda_{\text{total}} / (W * \mu_{\text{worker}})$   
Aliases: F-065 | References: JO,M3,MK | Ceiling: ratio

F-066 Spreadsheet worker requirement [FORMULA]

Minimum worker count for a precommitted utilization ceiling. Expression:  $W_{\text{min}} = \text{ceil}(\lambda_{\text{total}} / (\rho_{\text{max}} * \mu_{\text{worker}}))$   
Aliases: F-066 | References: JO,M3,MJOS | Ceiling: count

F-067 Recalculation latency [FORMULA]

End-to-end recalculation latency across logical Pearl simulation partitions. Expression:  $T_{\text{recalc}} = T_{\text{parse}} + T_{\text{dependency}} + \max_p(T_{\text{partition},p}) + T_{\text{commit}}$   
Aliases: F-067 | References: MK,JO,M3 | Ceiling: time

F-068 Spreadsheet data cost [FORMULA]

Storage, transfer, and compute cost remain separately evidenced before aggregation. Expression:  $C_{\text{data}} = B_{\text{store}} * c_{\text{store}} + B_{\text{transfer}} * c_{\text{transfer}} + t_{\text{cpu}} * c_{\text{cpu}}$   
Aliases: F-068 | References: MERMAID,SHIVA,MK,JO | Ceiling: cost unit

Definitive categorized terminology and alias reference

F-069 Pearl simulation partition objective [FORMULA]

Logical partition objective with precommitted weights; breach term is simulation risk, not physical containment. Expression:  $J_{\text{partition}} = \alpha \cdot \max_p(L_p) + \beta \cdot \text{sum\_cut}(w_e) + \gamma \cdot R_{\text{breach}} + \delta \cdot R_{\text{stale}}$   
Aliases: F-069 | References: JP,MK,JO,SISTER | Ceiling: declared score

F-070 Sheet revision root [FORMULA]

Every committed change creates immutable content-addressed lineage. Expression:  $H_{\text{rev}} = \text{SHA256}(\text{parent\_root} || \text{canonical\_deltas} || \text{policy\_epoch})$   
Aliases: F-070 | References: Bangel ,JP,JO,MERMAID | Ceiling: digest

F-071 Audit-particle completeness [FORMULA]

A critical spreadsheet command fails closed when its audit particle is incomplete. Expression:  $\text{AuditPass} = \text{AND}(\text{required\_fields\_present}, \text{receipts\_valid})$   
Aliases: F-071 | References: JO,ANGELS,BELLATRIX,MERMAID | Ceiling: logical

F-072 Iterative recalculation stability [FORMULA]

Declared iterative formulas require an evidenced locally stable fixed-point regime. Expression:  $\text{spectral\_radius}(J_F) < 1$   
Aliases: F-072 | References: JP,MK,JO | Ceiling: logical

F-073 Revision conflict gate [FORMULA]

Stale writes cannot silently overwrite a newer revision. Expression:  $\text{base\_revision} = \text{head\_revision} \text{ OR } \text{valid\_merge\_receipt}$   
Aliases: F-073 | References: Bangel ,JO,ANGELS | Ceiling: logical

F-074 Freshness age [FORMULA]

Age of a source observation or derived cell. Expression:  $\text{Age} = \text{now-observed\_at}$   
Aliases: F-074 | References: JO,MK,SISTER | Ceiling: time

F-075 Staleness gate [FORMULA]

A cell is current only inside its declared freshness policy. Expression:  $\text{Age} \leq \text{freshness\_limit}$   
Aliases: F-075 | References: JO,ANGELS,MERMAID | Ceiling: logical

F-076 Data-performance correlation [FORMULA]

Descriptive correlation between data characteristics and performance; not a causal claim. Expression:  $r_{xy} = \text{Cov}(X,Y) / (\sigma_x \cdot \sigma_y)$   
Aliases: F-076 | References: MK,JO,MERMAID | Ceiling: ratio

Definitive categorized terminology and alias reference

F-077 Silo unification gate [FORMULA]

Departmental sources unify only when semantic, unit, period, authority, and lineage conditions agree. Expression: UnifiedMetric=SameMeaning AND SameUnit AND SamePeriod AND SameAuthority AND SameLineage  
Aliases: F-077 | References: ELSA,JP,JO,MERMAID | Ceiling: logical

F-078 Formula verification residual [FORMULA]

Silent formula corruption is detected by independent deterministic recomputation. Expression: r\_formula=y\_reported-y\_recomputed  
Aliases: F-078 | References: JO,MK,ANGELS | Ceiling: output unit

F-079 Operational intake completeness [FORMULA]

Scaling work begins only after the process, concurrency, workload, service target, and authority are explicit. Expression: IntakePass=process\_defined AND users\_known AND workload\_known AND SLA\_known AND authority\_known  
Aliases: F-079 | References: Bangel ,ELSA,JP,JO,MJ | Ceiling: logical

F-080 Spreadsheet capacity gate [FORMULA]

Admission requires throughput, memory, and partition-boundary capacity to pass together. Expression: lambda\_total<=rho\_max\*sum\_p(mu\_p) AND memory\_required<=memory\_available AND cross\_partition\_edges<=cut\_limit  
Aliases: F-080 | References: MK,JO,M3,SISTER,MJOS | Ceiling: logical

F-081 First-noise rectangle height [FORMULA]

Rectangle maximum height is the first validated noise-detection plane. Expression: H\_R=h\_noise,1  
Aliases: F-081 | References: SISTER,MK,JO | Ceiling: length

F-082 Reference gas density [FORMULA]

Actual gas density depends on measured pressure, temperature, molar mass, and compressibility. Expression: rho\_g=P\*M/(Z\*R\*T)  
Aliases: F-082 | References: MK,JO,JP | Ceiling: mass/volume

F-083 24 mg reference volume [FORMULA]

24 mg defines a reference gas volume under a declared state and does not replace the 23 mg floor. Expression: V\_24=m\_24/rho\_ref  
Aliases: F-083 | References: JP,MK,JO | Ceiling: volume

F-084 Rectangle depth [FORMULA]

Reference depth adapts to measured height and declared width. Expression: D\_R=V\_24/(W\_R\*H\_R)  
Aliases: F-084 | References: SISTER,MK,JO | Ceiling: length

Definitive categorized terminology and alias reference

F-085 Cone height ratio [FORMULA]

Standard cone height is twice rectangle height. Expression:  $H_C=k_HH_R$ ;  $k_H, std=2$   
Aliases: F-085 | References: JP,MK,JO | Ceiling: length

F-086 Cone top-width ratio [FORMULA]

Standard top characteristic width is twice bottom width. Expression:  $W_T=k_WW_B$ ;  $k_W, std=2$   
Aliases: F-086 | References: JP,MK,JO | Ceiling: length

F-087 Cone area by height [FORMULA]

Similar-section conical expansion area. Expression:  $A(z)=A_B(1+(k_W-1)z/H_C)^2$   
Aliases: F-087 | References: MK,JO,SISTER | Ceiling: area

F-088 Cone partial volume [FORMULA]

Volume up to observed gas height. Expression:  $V_C(z)=A_B(z+(k_W-1)z^2/H_C+(k_W-1)^2z^3/(3H_C^2))$   
Aliases: F-088 | References: MK,JO,SISTER | Ceiling: volume

F-089 Full conical-frustum volume [FORMULA]

Full conical expansion volume. Expression:  $V_C=H_C/3(A_B+\sqrt{A_BA_T})+A_T$   
Aliases: F-089 | References: MK,JO,JP | Ceiling: volume

F-090 Pearl cone-top anchor [FORMULA]

Pearl simulation begins at the top-of-cone information plane. Expression:  $z_{P0}=H_R+H_C$ ; standard= $3H_R$   
Aliases: F-090 | References: PEARL,MK,JO | Ceiling: length

F-091 Observed gas mass [FORMULA]

Gas mass from observed height and state-dependent density. Expression:  $m_g=\rho_gV_C(h_g)$   
Aliases: F-091 | References: MK,EVE,JO | Ceiling: mass

F-092 Gas mass-flow from height [FORMULA]

Mass-flow accounting includes density changes. Expression:  $m_{dot}=\rho A(h_g)h_{dot_g}+V_C(h_g)\rho_{dot}$   
Aliases: F-092 | References: MK,EVE,JO | Ceiling: mass/time

Definitive categorized terminology and alias reference

F-093 Observed gas-height predictor [FORMULA]

Bounded prediction of observed gas-front height. Expression:  $\hat{h}=\text{clip}(h+v*dt+0.5*a*dt^2,0,H\_C)$   
Aliases: F-093 | References: SISTER,MK,JO | Ceiling: length

F-094 Gas net-force balance [FORMULA]

Geometry alone does not guarantee acceleration. Expression:  $m\_eff*a\_z=F\_b+F\_p+F\_act-F\_d-F\_wall-F\_mix$   
Aliases: F-094 | References: MK,JO,SISTER | Ceiling: force

F-095 Buoyancy force [FORMULA]

Reference buoyancy term under declared environment. Expression:  $F\_b=(\rho\_ambient-\rho\_g)*g*V\_g$   
Aliases: F-095 | References: MK,JO,EVE | Ceiling: force

F-096 Drag force [FORMULA]

Reference drag term under declared coefficient and flow. Expression:  $F\_d=0.5*C\_d*\rho\_ambient*A\_projected*u*abs(u)$   
Aliases: F-096 | References: MK,JO,EVE | Ceiling: force

F-097 Flow continuity [FORMULA]

For fixed flow, increasing area does not itself accelerate the gas. Expression:  $Q=A(z)*u(z)$   
Aliases: F-097 | References: MK,JO,SISTER | Ceiling: volume/time

F-098 Residual reservoir capacity [FORMULA]

Residual reservoir remains smaller than rectangle reference capacity. Expression:  $C\_res,k=\gamma\_k*C\_rect,k; 0\leq\gamma\_k<1$   
Aliases: F-098 | References: SISTER,EVE,JO | Ceiling: typed capacity

F-099 Umbrella/EVE/reservoir balance [FORMULA]

Downward redistribution, EVE evidence, reservoir admission, and escape are separately accounted. Expression:  $q\_cone=q\_down+q\_EVE+q\_res+q\_escape+r$   
Aliases: F-099 | References: EVE,SISTER,MERMAID | Ceiling: typed quantity

F-100 Containment modification predicate [FORMULA]

Size changes preserve core logic but require full recalculation and gates. Expression:  $\text{Valid}(\theta)=\text{typed}\&\text{positive}\&\text{recomputed}\&\text{conserved}\&\text{bounded}\&\text{evidenced}\&\text{MK}\&\text{JO}\&\text{MJ}$   
Aliases: F-100 | References: Bangel ,JP,MK,JO,MJ | Ceiling: logical

Definitive categorized terminology and alias reference

F-101 Rear outlet elevation [FORMULA]

Outlet is below the containment maximum height. Expression:  $z_{out}=H_P-\delta_z$ ;  $0<\delta_z<H_P$   
Aliases: F-101 | References: SISTER,MK,JO | Ceiling: length

F-102 Pearl simulation exclusion radius [FORMULA]

Nonphysical reference circle plus declared clearance. Expression:  $R_P,sim=R_{top}+c_P$ ;  $c_P>=0$   
Aliases: F-102 | References: PEARL,MK,JO | Ceiling: length

F-103 Outward-tangential outlet direction [FORMULA]

Slight positive outward cant from the local tangent. Expression:  $d_{out}=\cos(\alpha_{out})t+\sin(\alpha_{out})n_{out}$ ;  $0<\alpha_{out}<\pi/2$   
Aliases: F-103 | References: JP,MK,JO | Ceiling: dimensionless vector

F-104 Outside-circle outlet path [FORMULA]

Path remains outside the Pearl simulation circle for  $s>0$ . Expression:  $||\gamma(s)-c_P||^2=R_P^2+2R_P*s*\sin(\alpha_{out})+s^2$   
Aliases: F-104 | References: PEARL,MK,JO | Ceiling: length^2

F-105 Reservoir volume balance [FORMULA]

Connected lake-like buffer control-volume balance. Expression:  $dV_L/dt=Q_{out}-Q_{return}-Q_{drain}-Q_{escape}$   
Aliases: F-105 | References: SISTER,EVE,MERMAID,JO | Ceiling: volume/time

F-106 Typed reservoir quantity balance [FORMULA]

Per-dimension balance prevents cross-unit collapse. Expression:  $dq_L,k/dt=q_{out},k-q_{return},k-q_{drain},k-q_{escape},k$   
Aliases: F-106 | References: SISTER,EVE,MERMAID,JO | Ceiling: typed quantity/time

F-107 Required buffer volume [FORMULA]

Conservative buffer capacity from inflow-return mismatch and residual. Expression:  $V_L,req=T_{hold}*max(0,Q_{out},H-Q_{return},L)+V_{residual},H$   
Aliases: F-107 | References: MK,SISTER,JO | Ceiling: volume

F-108 Outlet area lower bound [FORMULA]

Area sizing from conservative design flow and allowable velocity. Expression:  $A_{out}>=Q_{design}/u_{out,max}$   
Aliases: F-108 | References: MK,JO | Ceiling: area

Definitive categorized terminology and alias reference

F-109 Circular outlet radius lower bound [FORMULA]

Circular outlet radius derived from required area. Expression:  $r_{out} \geq \sqrt{A_{out}/\pi}$   
Aliases: F-109 | References: MK,JO | Ceiling: length

F-110 Bounded drip impulse [FORMULA]

Small-discharge reference objective; threshold requires evidence. Expression:  $J_{drop} = m_{drop} \cdot v_{drop} \leq J_{drop,max}$   
Aliases: F-110 | References: MK,ANGELS,JO | Ceiling: impulse

F-111 Small-wave energy reference [FORMULA]

Applies only under small-amplitude liquid-surface assumptions. Expression:  $E_{wave} \approx 0.5 \cdot \rho \cdot g \cdot a_{wave}^2 \cdot A_{surface}$   
Aliases: F-111 | References: MK,JO,EVE | Ceiling: energy

F-112 Froude reference [FORMULA]

Flow-regime reference;  $Fr < 1$  is a conditional subcritical target. Expression:  $Fr = U/\sqrt{gL}$   
Aliases: F-112 | References: MK,JO | Ceiling: dimensionless

F-113 Circular return-port area [FORMULA]

Circular re-entry cross-section. Expression:  $A_{in} = \pi \cdot r_{in}^2$   
Aliases: F-113 | References: MK,JO | Ceiling: area

F-114 Inward-tangential reentry components [FORMULA]

Small inward angle plus tangential component; no vortex proof. Expression:  $u_r = -U \cdot \sin(\beta_{in})$ ;  $u_{\theta} = \sigma \cdot U \cdot \cos(\beta_{in})$   
Aliases: F-114 | References: SISTER,MK,JO | Ceiling: velocity

F-115 Spiral compatibility ratio [FORMULA]

Reference ratio for tangential-dominant reentry. Expression:  $\chi_{spiral} = |u_{\theta}|/\max(|u_r|,\epsilon)$   
Aliases: F-115 | References: MK,JO | Ceiling: dimensionless

F-116 Return continuity [FORMULA]

Re-entry flow through the circular port. Expression:  $Q_{return} = A_{in} \cdot u_n$   
Aliases: F-116 | References: MK,JO,SISTER | Ceiling: volume/time

Definitive categorized terminology and alias reference

F-117 Relative-frame velocity [FORMULA]

Coordinate-frame-relative motion; perspective does not create energy. Expression:  $v_{rel}=v_B-v_A-\Omega_A \times r$   
Aliases: F-117 | References: MK,JO | Ceiling: velocity

F-118 Frictional dissipation [FORMULA]

Measured frame-relative frictional dissipation. Expression:  $P_{diss}=\max(0,-F_f \text{ dot } v_{rel})$   
Aliases: F-118 | References: MK,JO,MERMAID | Ceiling: power

F-119 Recoverable friction-energy bound [FORMULA]

No physical recovery without an evidenced conversion mechanism. Expression:  $E_{rec} \leq \eta_{rec} \cdot \int (P_{diss} \text{ dt})$ ;  $0 \leq \eta_{rec} \leq 1$   
Aliases: F-119 | References: MK,JO,MERMAID,SHIVA | Ceiling: energy

F-120 Reservoir transaction gate [FORMULA]

Every reservoir transfer requires safety, routing, physics, proof, reconciliation, and permit. Expression:  $Admit=AngelPass \& M3Lease \& MKPass \& JOPass \& MermaidReconciled \& MJPermit$   
Aliases: F-120 | References: ANGELS,M3,MK,JO,MERMAID,MJ | Ceiling: logical

F-121 Re-entry swirl ratio [FORMULA]

Represents tangential-to-inward re-entry velocity. Expression:  $\chi_i=|u_{\theta}|/\max(|u_r|,\epsilon_u)$   
Aliases: F-121 | References: MK,JO | Ceiling: dimensionless

F-122 Re-entry processing cycle [FORMULA]

Prohibits same-cycle feedback and creates a new receipt chain. Expression:  $cycle_{reentry}=cycle_{exit}+1$   
Aliases: F-122 | References: JO,M3,SISTER | Ceiling: cycle identifier

F-123 Perspective transform residual [FORMULA]

Measures disagreement after transforming observations between reference frames. Expression:  $r_{Pi}=x_B-T_{A\_to\_B} \cdot x_A$   
Aliases: F-123 | References: MK,JO,EVE,MERMAID | Ceiling: typed vector

F-124 Physical pressure-flow dissipation [FORMULA]

Stores measured physical dissipation only when pressure and flow are evidenced. Expression:  $E_{diss}=\int (\Delta_p(t) \cdot Q(t) dt)$   
Aliases: F-124 | References: MK,JO,MERMAID | Ceiling: energy

Definitive categorized terminology and alias reference

F-125 Information friction [FORMULA]

Stores unresolved information or memory cost without treating it as energy. Expression:  $C_{info} = \int(B_{residual}(t)dt)$   
Aliases: F-125 | References: JO,M3,MERMAID | Ceiling: byte\*time

F-126 Rotational setpoint damping [FORMULA]

Damps the desired rotational-wave setpoint. Expression:  $\omega_{tilde} = (2/3) * \omega + (1/3) * \omega_{star}$   
Aliases: F-126 | References: MK,JO,SISTER | Ceiling: angular velocity

F-127 Rotational step cap [FORMULA]

Limits one-step rotational changes. Expression:  $|\omega_{next} - \omega| \leq 0.1 * \omega_{scale}$   
Aliases: F-127 | References: MK,JO,ANGELS | Ceiling: angular velocity

F-128 Outlet transfer conservation [FORMULA]

Separates lake admission, EVE observation, escape, and residual. Expression:  $q_{exit} = q_{lake\_in} + q_{EVE} + q_{escape} + r_o$   
Aliases: F-128 | References: EVE,SISTER,MERMAID,JO | Ceiling: typed quantity

F-129 Re-entry recalculation vector [FORMULA]

Declares the observed changes that trigger recalculation before re-entry. Expression:  $\Delta x = [\Delta_m, \Delta_W, \Delta_V, \Delta_{rho}, \Delta_T, \Delta_p, \Delta_h]$   
Aliases: F-129 | References: MK,JO,EVE,SISTER | Ceiling: typed vector

F-130 Re-entry admissibility predicate [FORMULA]

Requires complete physics, evidence, safety, routing, and authority before physical re-entry. Expression:  $Admit_{re} = types \& units \& new\_cycle \& capacity \& wave \& MK \& JO \& Angels \& M3 \& MJ$   
Aliases: F-130 | References: Bangel ,JP,MK,JO,ANGELS,M3,MJ | Ceiling: logical

F-131 Uncertainty-aware Pearl reference clearance [FORMULA]

Path remains outside the nonphysical Pearl simulation reference circle after uncertainty is included. Expression:  $min_s(|\gamma_{out}(s) - c_P| - R_P, sim) \geq c_{min} + U_{path}$   
Aliases: F-131 | References: PEARL,MK,JO | Ceiling: length

F-132 Outward angular-gap predicate [FORMULA]

Outlet direction remains within the declared outward-facing gap. Expression:  $abs(wrap(\alpha_{out} - \alpha_{gap})) \leq \Delta_{\alpha\_gap} / 2$   
Aliases: F-132 | References: JP,MK,JO | Ceiling: logical

Definitive categorized terminology and alias reference

F-133 Available outlet pressure [FORMULA]

Pressure and elevation state available to drive a reference outlet flow. Expression:  $\Delta p_{\text{available}} = p_{\text{containment}} - p_{\text{lake}} + \rho \cdot g \cdot (z_{\text{out}} - z_{\text{lake}})$   
Aliases: F-133 | References: MK,JO,SISTER | Ceiling: pressure

F-134 Outlet pressure margin [FORMULA]

Conservative pressure margin after losses and uncertainty. Expression:  $\Delta p_{\text{margin}} = \Delta p_{\text{available}} - \Delta p_{\text{loss}} - U_{\Delta p}$   
Aliases: F-134 | References: MK,JO | Ceiling: pressure

F-135 Minimum outlet grade [FORMULA]

Minimum modeled grade needed to overcome pressure deficit under declared assumptions. Expression:  
 $\alpha_{\text{min}} = \text{atan}(\max(0, \Delta p_{\text{loss}} + U_{\Delta p} - (p_{\text{containment}} - p_{\text{lake}})) / (\rho \cdot g \cdot L_{\text{path}}))$   
Aliases: F-135 | References: JP,MK,JO | Ceiling: angle

F-136 Selected positive outlet grade [FORMULA]

Slight positive increase above the modeled minimum; no universal value is asserted. Expression:  $\alpha_{\text{selected}} = \alpha_{\text{min}} + \Delta \alpha$ ;  $\Delta \alpha > 0$   
Aliases: F-136 | References: JP,MK,JO,MJ | Ceiling: angle

F-137 Incompressible reference outlet flow [FORMULA]

Conditional reference flow under evidenced incompressible assumptions. Expression:  $Q_{\text{ref}} = C_d \cdot A_{\text{out}} \cdot \sqrt{2 \cdot \max(0, \Delta p_{\text{available}} - \Delta p_{\text{loss}}) / \rho}$   
Aliases: F-137 | References: MK,JO | Ceiling: volume/time

F-138 Mean outlet velocity [FORMULA]

Conditional mean velocity for the declared outlet area. Expression:  $U_{\text{out}} = Q_{\text{ref}} / A_{\text{out}}$   
Aliases: F-138 | References: MK,JO | Ceiling: length/time

F-139 Weber number reference [FORMULA]

Surface-tension-to-inertia reference when the model applies. Expression:  $We = \rho \cdot U^2 \cdot L / \sigma$   
Aliases: F-139 | References: MK,JO | Ceiling: dimensionless

F-140 Wave amplitude ratio [FORMULA]

Dimensionless small-amplitude observation ratio. Expression:  $\epsilon_a = a_{\text{wave}} / h_L$   
Aliases: F-140 | References: MK,JO,EVE | Ceiling: dimensionless

Definitive categorized terminology and alias reference

F-141 Small-wave observation gate [FORMULA]

Reference gate for bounded low-amplitude observations; not proof of wave suppression. Expression:  $WaveGate=(Fr \leq Fr_{max}) \& (\epsilon_a \leq \epsilon_{a,max}) \& (We \leq We_{max} \text{ when applicable})$   
Aliases: F-141 | References: MK,JO,ANGELS | Ceiling: logical

F-142 Discrete reservoir inventory [FORMULA]

Receipted discrete update for the separate lake/buffer control volume. Expression:  $q_L,t+1=q_L,t+q_{out}-q_{return}-q_{drain}-q_{escape}-r_L$   
Aliases: F-142 | References: EVE,M3,MERMAID,JO | Ceiling: typed quantity

F-143 Vector reservoir headroom [FORMULA]

Headroom remains separate for every resource dimension. Expression:  $H_L,k=C_L,k-q_L,k$   
Aliases: F-143 | References: SISTER,EVE,JO | Ceiling: typed capacity

F-144 Vector reservoir admission [FORMULA]

Admission fails when any resource dimension lacks required headroom. Expression:  $Admit_L=AND_k[q_L,k+q_{in,k} \leq (1-h_L,k)C_L,k]$   
Aliases: F-144 | References: ANGELS,M3,MK,JO,MJ | Ceiling: logical

F-145 No same-cycle feedback predicate [FORMULA]

Re-entry starts a new receipted cycle and cannot feed the same active generation. Expression:  $ReentryValid=(cycle_{reentry}=cycle_{exit}+1) \& no_{uncleared\_generation\_reuse}$   
Aliases: F-145 | References: M3,JO,ANGELS,MJ | Ceiling: logical

F-146 Solar/auxiliary/recovery input energy [FORMULA]

All admitted energy inputs are separately measured and summed; no source may be implied or double-counted. Expression:  $E_{in} = E_{solar} + E_{aux} + E_{recovered}$   
Aliases: F-146 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: energy

F-147 Solar system energy conservation [FORMULA]

The shared core requires storage change, delivered load, loss, residual, and uncertainty to reconcile. Expression:  $E_{in} = \Delta E_{storage} + E_{load} + E_{loss} + r_E$   
Aliases: F-147 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: energy

F-148 Instantaneous power balance [FORMULA]

Power routing is typed and conservation-bound at each observation interval. Expression:  $P_{balance} = P_{source} - P_{load} - P_{charge} - P_{loss}$   
Aliases: F-148 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: power

Definitive categorized terminology and alias reference

- F-149 Conservative reserve margin [FORMULA]

A start or service is eligible only when conservative available energy exceeds required energy with margin. Expression:  $R_E = E_{\text{available},L} - M_E * E_{\text{required},H}$   
Aliases: F-149 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: energy
- F-150 Path efficiency [FORMULA]

Efficiency is a measured or simulated ratio with declared boundaries and cannot exceed one without a reconciliation fault. Expression:  $\eta_{\text{path}} = E_{\text{delivered}} / E_{\text{input}}$   
Aliases: F-151 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: ratio
- F-151 Bounded storage state update [FORMULA]

Storage state is bounded and depends on measured/declared capacity and efficiencies. Expression:  $SOC_{\text{next}} = \text{clip}(SOC + (\eta_c * E_{\text{charge}} - E_{\text{discharge}}/\eta_d)/E_{\text{capacity}},0,1)$   
Aliases: F-151 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: ratio
- F-152 Thermal first-order update [FORMULA]

A reference thermal model preserves heat input, environmental exchange, units, and uncertainty. Expression:  $T_{\text{next}} = T + dt/C_{\text{th}} * (P_{\text{heat}} - (T - T_{\text{env}})/R_{\text{th}})$   
Aliases: F-152 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: temperature
- F-153 Predicted bus voltage [FORMULA]

Voltage trend predicts a reserve crossing before zero and supports bounded protective action. Expression:  $V_{\text{pred}}(t+h) = V_t + h*dV_{\text{dt}}$   
Aliases: F-153 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: voltage
- F-154 Shared start/admission gate [FORMULA]

No single physics or software result substitutes for the complete start/admission gate. Expression:  $G_{\text{start}} = \text{energy AND voltage AND current AND thermal AND containment AND ethics AND MJ}_{\text{permit}}$   
Aliases: F-154 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: logical
- F-155 Cross-profile transfer gate [FORMULA]

A shared equation does not transfer a physical parameter without quantity, unit, domain, range, environment, method, boundary, uncertainty, evidence, and authority checks.  
Expression:  $\text{TransferOK} = K \text{ AND } U \text{ AND } D \text{ AND } R \text{ AND } E \text{ AND } M \text{ AND } B \text{ AND } Q \text{ AND } V \text{ AND } A$   
Aliases: F-155 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: logical
- F-156 Solar uncertainty propagation [FORMULA]

Every derived solar quantity carries covariance-aware measurement and model uncertainty. Expression:  $u_y^2 = J^2 * \Sigma_J^2 + u_{\text{model}}^2$   
Aliases: F-156 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: uncertainty

Definitive categorized terminology and alias reference

F-157 Solar evidence-state transition [FORMULA]

Every solar command remains R1 until required evidence, safety, authority, and claims ceilings pass. Expression: R1 --all required evidence and gates--> R2  
Aliases: F-157 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: state

F-158 Phone-profile solar energy [FORMULA]

The semiconductor/phone profile integrates measured or simulated photovoltaic power over a named interval. Expression: E\_solar\_phone = integral(P\_pv\_phone(t),t0,t1)  
Aliases: F-159 | References: JP,MK,JO,MJOS,M3,MERMAID,MJ | Ceiling: energy

F-159 Workload-aware power demand [FORMULA]

OS workload power is represented as a typed sum of baseline and admitted task loads. Expression: P\_phone = P\_base + sum(P\_task\_i \* a\_i)  
Aliases: F-159 | References: JP,MK,JO,MJOS,M3,MERMAID,MJ | Ceiling: power

F-160 Phone reserve duration [FORMULA]

Reserve duration uses conservative energy and critical-load bounds. Expression: t\_reserve = E\_reserve,L / P\_critical,H  
Aliases: F-160 | References: JP,MK,JO,MJOS,M3,MERMAID,MJ | Ceiling: time

F-161 Phone energy deficit [FORMULA]

A positive deficit creates HOLD/load-shed behavior rather than invented capacity. Expression: D\_E = max(0,E\_required,H - E\_available,L)  
Aliases: F-161 | References: JP,MK,JO,MJOS,M3,MERMAID,MJ | Ceiling: energy

F-162 Environment-dependent leakage [FORMULA]

Leakage is a measured/profile function rather than a universal constant. Expression: I\_leak = f(V,T,RH,time,material\_state)  
Aliases: F-162 | References: JP,MK,JO,MJOS,M3,MERMAID,MJ | Ceiling: current

F-163 Wake energy accounting [FORMULA]

Wake energy is measured from synchronized voltage/current data. Expression: E\_wake = integral(V\_wake(t)\*I\_wake(t),t0,t1)  
Aliases: F-163 | References: JP,MK,JO,MJOS,M3,MERMAID,MJ | Ceiling: energy

F-164 Phone thermal margin [FORMULA]

Thermal margin must remain nonnegative for the applicable state. Expression: M\_T = T\_allowable - (T\_observed + U\_T)  
Aliases: F-164 | References: JP,MK,JO,MJOS,M3,MERMAID,MJ | Ceiling: temperature

Definitive categorized terminology and alias reference

F-165 Useful work per delivered energy [FORMULA]

Performance/energy analysis is only meaningful when work and energy boundaries are explicit. Expression:  $\eta_{work} = W_{verified} / E_{delivered}$   
Aliases: F-165 | References: JP,MK,JO,MJOS,M3,MERMAID,MJ | Ceiling: work\_per\_energy

F-166 Data-performance correlation [FORMULA]

Correlation is descriptive and cannot be represented as causation without additional evidence. Expression:  $\rho_{DP} = cov(D,P) / (\sigma_D \sigma_P)$   
Aliases: F-167 | References: JP,MK,JO,MJOS,M3,MERMAID,MJ | Ceiling: ratio

F-167 Workload allocation update [FORMULA]

Workload/resource allocation preserves nonnegative weights, sum-to-one, and the one-tenth step boundary. Expression:  $w_{next} = bounded\_simplex((2/3)w + (1/3)w_{target}, step \leq 0.1)$   
Aliases: F-167 | References: JP,MK,JO,MJOS,M3,MERMAID,MJ | Ceiling: ratio\_vector

F-168 Semiconductor scale map [FORMULA]

Normalized topology becomes physical only through a profile-specific mapping with measured dimensions and tolerances. Expression:  $p_{SC}(x,y,z) = o_{SC} + x \cdot a_{SC} + y \cdot b_{SC} + z \cdot c_{SC}$   
Aliases: F-168 | References: JP,MK,JO,MJOS,M3,MERMAID,MJ | Ceiling: length\_vector

F-169 Phone-profile evidence completeness [FORMULA]

The phone profile cannot claim readiness while a controlling evidence class is absent. Expression:  $E_{SC} = min\_required(article, calibration, baseline, energy, thermal, geometry, JO, MK, MJ)$   
Aliases: F-169 | References: JP,MK,JO,MJOS,M3,MERMAID,MJ | Ceiling: logical

F-170 Marine solar-array energy [FORMULA]

Marine solar input is integrated within a named installation and environmental boundary. Expression:  $E_{array} = \int (P_{array}(t), t_0, t_1)$   
Aliases: F-170 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: energy

F-171 Marine propulsion/load power [FORMULA]

Rotational mechanical power is represented through measured torque and angular speed; geometry alone provides no propulsion claim. Expression:  $P_{prop} = \tau \cdot \omega$   
Aliases: F-171 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: power

F-172 Marine mission energy [FORMULA]

Mission demand separates propulsion, critical, and auxiliary loads. Expression:  $E_{mission} = \int (P_{prop} + P_{critical} + P_{aux}, t_0, t_1)$   
Aliases: F-172 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: energy

Definitive categorized terminology and alias reference

F-173 Marine critical reserve duration [FORMULA]

Critical service duration is conservative and product-classification dependent. Expression:  $t_{critical} = E_{reserve,L} / P_{critical,H}$   
Aliases: F-173 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: time

F-174 Marine DC bus balance [FORMULA]

All marine bus flows are reconciled with a residual and uncertainty. Expression:  $P_{sources} = P_{prop} + P_{critical} + P_{aux} + P_{charge} + P_{loss} + r_P$   
Aliases: F-174 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: power

F-175 Precharge inrush reference [FORMULA]

A reference precharge model applies only within its validated circuit domain. Expression:  $I_{pre}(t) = (V_{source} - V_{bus}(t))/R_{pre}$   
Aliases: F-175 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: current

F-176 Wet/dry leakage ratio [FORMULA]

Environmental leakage change is explicit and cannot be hidden by a dry baseline. Expression:  $K_{leak} = I_{leak,wet} / \max(I_{leak,dry}, \epsilon)$   
Aliases: F-176 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: ratio

F-177 Marine environment state vector [FORMULA]

Marine physical evidence remains a multi-dimensional vector. Expression:  $X_{env} = [T, RH, salt, water, vibration, roll, pitch]$   
Aliases: F-177 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: typed\_vector

F-178 Vibration exposure [FORMULA]

Vibration exposure is a measured reference quantity, not a universal damage prediction. Expression:  $D_{vib} = \text{integral}(a_{rms}(t)^2, t_0, t_1)$   
Aliases: F-178 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: acceleration\_squared\_time

F-179 Recovered energy ceiling [FORMULA]

Recovery cannot exceed evidenced available loss and efficiency. Expression:  $E_{recovered} \leq \eta_{recovery} * E_{available\_loss}$   
Aliases: F-179 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: energy

F-180 Priority load shedding [FORMULA]

Containment and safety loads cannot be shed to preserve optional service. Expression:  $shed = \text{lowest\_priority\_loads\_until}(P_{source,L} \geq P_{critical,H} + \text{margin})$   
Aliases: F-180 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: logical

Definitive categorized terminology and alias reference

F-181 Marine evidence and permit gate [FORMULA]

No vessel operation or propulsion test is authorized by design trace alone. Expression:  $G_{\text{marine}} = \text{class AND environment AND energy AND structure AND containment AND ethics AND MJ\_permit}$   
Aliases: F-181 | References: JP,MK,JO,MJOS,SISTER,EVE,M3,MERMAID,MJ | Ceiling: logical

F-182 Peaceful spacecraft solar energy [FORMULA]

Solar electrical input for avionics/reserve is bounded to a declared peaceful research profile. Expression:  $E_{\text{space\_solar}} = \text{integral}(P_{\text{solar\_space}}(t),t0,t1)$   
Aliases: F-182 | References: JP,MK,JO,MJOS,ANGELS,BELLATRIX,SISTER,EVE,M3,MERMAID,MJ | Ceiling: energy

F-183 Avionics bus balance [FORMULA]

The reference bus separates service classes and preserves residual accounting. Expression:  $P_{\text{av\_source}} = P_{\text{avionics}} + P_{\text{thermal}} + P_{\text{comms}} + P_{\text{charge}} + P_{\text{loss}} + r_P$   
Aliases: F-183 | References: JP,MK,JO,MJOS,ANGELS,BELLATRIX,SISTER,EVE,M3,MERMAID,MJ | Ceiling: power

F-184 Emergency reserve duration [FORMULA]

Emergency reserve is conservative and does not authorize flight or propulsion. Expression:  $t_{\text{emergency}} = E_{\text{emergency,L}} / P_{\text{emergency,H}}$   
Aliases: F-184 | References: JP,MK,JO,MJOS,ANGELS,BELLATRIX,SISTER,EVE,M3,MERMAID,MJ | Ceiling: time

F-185 Spacecraft thermal balance [FORMULA]

A reference thermal balance requires geometry, materials, environment, and radiation model evidence. Expression:  $C_{\text{th}}dT/dt = P_{\text{internal}} + P_{\text{solar\_absorbed}} - P_{\text{rejected}}$   
Aliases: F-185 | References: JP,MK,JO,MJOS,ANGELS,BELLATRIX,SISTER,EVE,M3,MERMAID,MJ | Ceiling: power

F-186 Space-profile battery margin [FORMULA]

A negative or unknown margin blocks the applicable state transition. Expression:  $M_{\text{batt}} = E_{\text{battery,L}} - E_{\text{required,H}}$   
Aliases: F-186 | References: JP,MK,JO,MJOS,ANGELS,BELLATRIX,SISTER,EVE,M3,MERMAID,MJ | Ceiling: energy

F-187 Authenticated startup state [FORMULA]

Startup/shutdown state changes require exact command, authority, evidence, and ethics. Expression:  $S_{\text{next}} = \text{transition}(S_{\text{current}},\text{command},\text{authority},\text{evidence},\text{ethics})$   
Aliases: F-187 | References: JP,MK,JO,MJOS,ANGELS,BELLATRIX,SISTER,EVE,M3,MERMAID,MJ | Ceiling: state

F-188 Fault isolation set [FORMULA]

Fault isolation is bounded and preserves evidence; it does not provide targeting or evasion capability. Expression:  $F_{\text{isolated}} = \text{isolate}(F_{\text{detected}},\text{affected\_boundaries},\text{receipts})$   
Aliases: F-188 | References: JP,MK,JO,MJOS,ANGELS,BELLATRIX,SISTER,EVE,M3,MERMAID,MJ | Ceiling: set

Definitive categorized terminology and alias reference

- F-189 Redundant service availability [FORMULA]

Availability calculations require evidenced independence and cannot be assumed. Expression:  $A_{\text{service}} = 1 - \text{product}(1 - A_i)$  for independent admitted channels  
*Aliases: F-189 | References: JP,MK,JO,MJOS,ANGELS,BELLATRIX,SISTER,EVE,M3,MERMAID,MJ | Ceiling: ratio*
- F-190 Propulsion-state coordination reference [FORMULA]

The model coordinates state labels without selecting energetic materials, constructing propulsion, or providing launch authority. Expression:  $S_{\text{prop\_next}} = \text{governed\_state\_update}(S_{\text{prop}}, \text{telemetry}, \text{limits}, \text{authority})$   
*Aliases: F-190 | References: JP,MK,JO,MJOS,ANGELS,BELLATRIX,SISTER,EVE,M3,MERMAID,MJ | Ceiling: state*
- F-191 High-energy emergency reserve [FORMULA]

Safe-shutdown reserve must remain nonnegative before any high-energy research transition. Expression:  $R_{\text{HE}} = E_{\text{safe\_shutdown}} - E_{\text{shutdown\_required}}$ ,  $H$   
*Aliases: F-191 | References: JP,MK,JO,MJOS,ANGELS,BELLATRIX,SISTER,EVE,M3,MERMAID,MJ | Ceiling: energy*
- F-192 Non-weaponization gate [FORMULA]

Weaponized or unresolved dual-use execution is denied or held; no passkey overrides this gate. Expression:  $G_{\text{ethics}} = \text{peaceful\_research} \text{ AND } \text{no\_targeting} \text{ AND } \text{no\_destructive\_payload} \text{ AND } \text{no\_evasion\_for\_harm}$   
*Aliases: F-192 | References: JP,MK,JO,MJOS,ANGELS,BELLATRIX,SISTER,EVE,M3,MERMAID,MJ | Ceiling: logical*
- F-193 Rocket-profile evidence and permit gate [FORMULA]

Design trace does not authorize propulsion construction, launch, flight, or physical testing. Expression:  $G_{\text{rocket}} = \text{peaceful\_scope} \text{ AND } \text{profile\_evidence} \text{ AND } \text{safety} \text{ AND } \text{regulatory\_hold\_resolved} \text{ AND } \text{MJ\_permit}$   
*Aliases: F-193 | References: JP,MK,JO,MJOS,ANGELS,BELLATRIX,SISTER,EVE,M3,MERMAID,MJ | Ceiling: logical*
- F-194 DRO founder lower marker [FORMULA]

Founder-declared theoretical lower marker; not a measured particle size. Expression:  $d_A = 5e-22 \text{ m}$   
*Aliases: F-194 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: length*
- F-195 DRO alias conversion [FORMULA]

Converts the founder alias string into SI length. Expression:  $d_B = 3e-12 \text{ nm} * 1e-9 \text{ m/nm} = 3e-21 \text{ m}$   
*Aliases: F-195 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: length*
- F-196 DRO conservative R threshold [FORMULA]

Conservative simulation threshold that satisfies both inconsistent founder minima. Expression:  $d_R = \max(d_A, d_B) = 3e-21 \text{ m}$   
*Aliases: F-196 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: length*

Definitive categorized terminology and alias reference

F-197 DRO upper spherical reference [FORMULA]

Upper founder reference for a spherical representation. Expression:  $d_U = 0.15\text{ nm} = 1.5e-10\text{ m}$   
Aliases: F-197 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: length

F-198 DRO declared interval [FORMULA]

A typed simulation interval; not physical existence. Expression:  $d$  in  $[d_R,d_U]$   
Aliases: F-198 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: length

F-199 DRO reference radius [FORMULA]

Classical geometric reference radius. Expression:  $r_{DRO} = d/2$   
Aliases: F-199 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: length

F-200 DRO spherical reference volume [FORMULA]

Classical sphere representation only at the declared scale. Expression:  $V_{DRO} = 4\pi r_{DRO}^3/3$   
Aliases: F-200 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: volume

F-201 DRO interval ratio [FORMULA]

Scale separation between R threshold and upper reference. Expression:  $\gamma_D = d_U/d_R$   
Aliases: F-201 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: ratio

F-202 DRO quantity count [FORMULA]

Count of complete typed DRO units from a measured or simulated quantity. Expression:  $N_{DRO} = \text{floor}(Q_{\text{observed}}/q_{\text{unit}})$   
Aliases: F-202 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: count

F-203 DRO remainder [FORMULA]

Unallocated typed remainder; never silently discarded. Expression:  $Q_{\text{rem}} = Q_{\text{observed}} - N_{DRO}q_{\text{unit}}$   
Aliases: F-203 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: quantity

F-204 Pearl-node allocation count [FORMULA]

Number of computational Pearl nodes required for DRO records. Expression:  $N_P = \text{ceil}(N_{DRO}/C_P)$   
Aliases: F-204 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: count

Definitive categorized terminology and alias reference

F-205 DRO-Pearl handoff balance [FORMULA]

Discrete conservation across the handoff. Expression:  $N_{DRO,in} = N_{DRO,pearl} + N_{DRO,held} + N_{DRO,escaped} + r_{DRO}$   
Aliases: F-205 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: count

F-206 DRO R-state gate [FORMULA]

Eligibility for an R candidate. Expression:  $G_R = scale\_interval\_valid \text{ AND } source\_bound \text{ AND } units\_valid$   
Aliases: F-206 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: logical

F-207 DRO R1 gate [FORMULA]

Observed-but-unresolved transition remains R1. Expression:  $G_{R1} = G_R \text{ AND } observed \text{ AND } unresolved\_items > 0$   
Aliases: F-207 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: logical

F-208 DRO R2 gate [FORMULA]

Verified living-static DRO representation. Expression:  $G_{R2} = G_R \text{ AND } observed \text{ AND } all\_required\_evidence\_pass$   
Aliases: F-208 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: logical

F-209 Optical wavelength [FORMULA]

Reference wavelength for a measured optical-control frequency. Expression:  $\lambda = c/f$   
Aliases: F-209 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: length

F-210 Photon energy [FORMULA]

Energy per photon at frequency f. Expression:  $E_{\gamma} = h \cdot f$   
Aliases: F-210 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: energy

F-211 Photon count estimate [FORMULA]

Expected incident photon count from measured optical power and duration. Expression:  $N_{\gamma} = P \cdot \Delta t / (h \cdot f)$   
Aliases: F-211 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: count

F-212 Optical coupling evidence [FORMULA]

Expected coupled-event count under a calibrated coupling efficiency. Expression:  $N_{couple} = \eta_c \cdot N_{\gamma}$   
Aliases: F-212 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: count

Definitive categorized terminology and alias reference

F-213 Optical admissibility [FORMULA]

Optical collection remains HOLD unless every evidence term is present. Expression:  $G_{opt} = calibrated\_band \text{ AND } measured\_power \text{ AND } eta\_c\_evidenced \text{ AND } uncertainty\_valid$   
Aliases: F-213 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: logical

F-214 DRO collection rate [FORMULA]

Observed or simulated DRO-unit acquisition rate. Expression:  $R_{DRO} = \Delta N_{DRO} / \Delta t$   
Aliases: F-214 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: count/time

F-215 DRO scale uncertainty [FORMULA]

Expanded uncertainty of the scale representation. Expression:  $U_d = k \cdot \sqrt{(J \cdot \Sigma J^T + u_{model}^2)}$   
Aliases: F-215 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: length

F-216 DRO interval classification [FORMULA]

Evidence interval used for R/R1/R2 classification. Expression:  $I_d = [d\_hat - U_d, d\_hat + U_d]$   
Aliases: F-216 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: length

F-217 DRO capacity slack [FORMULA]

Remaining capacity in each typed Pearl-node dimension. Expression:  $S_k = (1 - h_k)C_k - L_k$   
Aliases: F-217 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: quantity

F-218 DRO overflow vector [FORMULA]

Typed excess; surplus in another dimension cannot compensate. Expression:  $E_k = \max(0, L_k - (1 - h_k)C_k)$   
Aliases: F-218 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: quantity

F-219 DRO ledger balance [FORMULA]

Complete quantity balance. Expression:  $r_Q = Q_{in-Q} - Q_{alloc-Q} - Q_{retained-Q} - Q_{transferred-Q} - Q_{escaped-Q} - \Delta Q_{stored}$   
Aliases: F-219 | References: DRO,PEARL,JP,MK,JO,MJ | Ceiling: quantity

F-220 DRO energy ledger [FORMULA]

Energy conservation for reference start accounting. Expression:  $r_E = E_{in-E} - E_{stored-E} - E_{start-E} - E_{restart-E} - E_{loss-E} - E_{containment}$   
Aliases: F-220 | References: DRO,PEARL,JP,MK,JO,SISTER,EVE,ANGELS,M3,MERMAID,MJOS,MJ | Ceiling: energy

Definitive categorized terminology and alias reference

F-221 Available start energy lower bound [FORMULA]

Conservative available energy. Expression:  $E_{avail}, L = E_{solar}, L + E_{acoustic}, L + E_{other}, L - E_{loss}, H$   
Aliases: F-221 | References: DRO, PEARL, JP, MK, JO, SISTER, EVE, ANGELS, M3, MERMAID, MJOS, MJ | Ceiling: energy

F-222 Start gate [FORMULA]

Start readiness requires immediate start plus restart reserve. Expression:  $G_{start} = E_{avail}, L \geq M_E(E_{start}, H + E_{restart}, H)$  AND all\_safety\_gates  
Aliases: F-222 | References: DRO, PEARL, JP, MK, JO, SISTER, EVE, ANGELS, M3, MERMAID, MJOS, MJ | Ceiling: logical

F-223 Restart reserve [FORMULA]

Lower-bound reserve after critical obligations. Expression:  $E_{restart}, L = E_{reserve}, L - E_{critical}, H$   
Aliases: F-223 | References: DRO, PEARL, JP, MK, JO, SISTER, EVE, ANGELS, M3, MERMAID, MJOS, MJ | Ceiling: energy

F-224 Solar contribution [FORMULA]

Measured solar contribution to the reference ledger. Expression:  $E_{solar} = \text{integral}(P_{solar}(t) dt)$   
Aliases: F-224 | References: DRO, PEARL, JP, MK, JO, SISTER, EVE, ANGELS, M3, MERMAID, MJOS, MJ | Ceiling: energy

F-225 Acoustic/noise contribution [FORMULA]

Measured conversion only; noise alone does not prove usable energy. Expression:  $E_{acoustic} = \text{integral}(\eta_a(t) I(t) A(t) dt)$   
Aliases: F-225 | References: DRO, PEARL, JP, MK, JO, SISTER, EVE, ANGELS, M3, MERMAID, MJOS, MJ | Ceiling: energy

F-226 Generic separation-work lower bound [FORMULA]

Any species-separation claim requires a thermodynamic and measured energy balance. Expression:  $W_{sep} \geq \Delta G_{sep}$   
Aliases: F-226 | References: DRO, PEARL, JP, MK, JO, SISTER, EVE, ANGELS, M3, MERMAID, MJOS, MJ | Ceiling: energy

F-227 Species availability [FORMULA]

Available amount depends on measured composition, not assumption. Expression:  $n_{species} = x_{species} n_{source}$   
Aliases: F-227 | References: DRO, PEARL, JP, MK, JO, SISTER, EVE, ANGELS, M3, MERMAID, MJOS, MJ | Ceiling: amount

F-228 Conversion efficiency [FORMULA]

Measured conversion efficiency; undefined when input is zero or unknown. Expression:  $\eta = E_{out}/E_{in}, 0 \leq \eta \leq 1$   
Aliases: F-228 | References: DRO, PEARL, JP, MK, JO, SISTER, EVE, ANGELS, M3, MERMAID, MJOS, MJ | Ceiling: ratio

Definitive categorized terminology and alias reference

F-229 Controlled logical release [FORMULA]

Normalizes pop/release language to a bounded logical event. Expression:  $G_{\text{release}} = \text{authorization AND destination\_capacity AND conservation AND safety}$   
Aliases: F-229 | References: DRO,PEARL,JP,MK,JO,SISTER,EVE,ANGELS,M3,MERMAID,MJOS,MJ | Ceiling: logical

F-230 DRO thermal gate [FORMULA]

Conservative thermal boundary for any future physical profile. Expression:  $T_H \leq T_{\text{allow}} - \Delta T_{\text{margin}}$   
Aliases: F-231 | References: DRO,PEARL,JP,MK,JO,SISTER,EVE,ANGELS,M3,MERMAID,MJOS,MJ | Ceiling: temperature

F-231 Semiconductor DRO charge balance [FORMULA]

Charge accounting for the semiconductor profile. Expression:  $\Delta Q = \int (I_{\text{intake}} - I_{\text{leak}} - I_{\text{release}}) dt + r_Q$   
Aliases: F-231 | References: DRO,PEARL,JP,MK,JO,SISTER,EVE,ANGELS,M3,MERMAID,MJOS,MJ | Ceiling: charge

F-232 Semiconductor Pearl-node memory [FORMULA]

Memory required for a computational Pearl node. Expression:  $B_P = B_{\text{DRO}} + B_{\text{lineage}} + B_{\text{uncertainty}} + B_{\text{receipts}} + B_{\text{headroom}}$   
Aliases: F-232 | References: DRO,PEARL,JP,MK,JO,SISTER,EVE,ANGELS,M3,MERMAID,MJOS,MJ | Ceiling: bytes

F-233 Semiconductor wake-reserve gate [FORMULA]

Reference wake and restart reserve gate. Expression:  $E_{\text{node},L} \geq M_E(E_{\text{wake}}, H + E_{\text{restart}}, H)$   
Aliases: F-233 | References: DRO,PEARL,JP,MK,JO,SISTER,EVE,ANGELS,M3,MERMAID,MJOS,MJ | Ceiling: logical

F-234 Semiconductor profile isolation [FORMULA]

Rejects marine or rocket physical values in the SC profile. Expression:  $G_{\text{SC}} = \text{profile} == \text{SC AND no\_LS\_value\_inheritance}$   
Aliases: F-234 | References: LECANTO,ELSA,JP,MK,JO,ANGELS,BELLATRIX,M3,MJ | Ceiling: logical

F-235 Lecanto byte-source digest [FORMULA]

Immutable source identity reference. Expression:  $H_{\text{src}} = \text{SHA256}(\text{source\_bytes})$   
Aliases: F-235 | References: LECANTO,ELSA,JP,MK,JO,ANGELS,BELLATRIX,M3,MJ | Ceiling: digest

F-236 Lecanto pixel residual [FORMULA]

Average per-pixel residual after declared registration and color handling. Expression:  $D_{\text{px}} = (1/N) \sum ||I_{\text{test}} - I_{\text{ref}}||_2$   
Aliases: F-236 | References: LECANTO,ELSA,JP,MK,JO,ANGELS,BELLATRIX,M3,MJ | Ceiling: signal

Definitive categorized terminology and alias reference

F-237 Lecanto spectral residual [FORMULA]

Frequency-domain residual used as evidence, not intent truth. Expression:  $D_{fft} = ||FFT(I_{test}) - FFT(I_{ref})||_2$   
Aliases: F-237 | References: LECANTO,ELSA,JP,MK,JO,ANGELS,BELLATRIX,M3,MJ | Ceiling: signal

F-238 Lecanto provenance completeness [FORMULA]

Provenance completeness ratio; one missing mandatory link causes HOLD. Expression:  $P_{prov} = \frac{complete\_required\_links}{required\_links}$   
Aliases: F-238 | References: LECANTO,ELSA,JP,MK,JO,ANGELS,BELLATRIX,M3,MJ | Ceiling: ratio

F-239 Lecanto intent hypothesis [FORMULA]

A bounded hypothesis, never a fact or authority grant. Expression:  $H_{intent} = f(words, context, declared\_purpose, provenance)$   
Aliases: F-239 | References: LECANTO,ELSA,JP,MK,JO,ANGELS,BELLATRIX,M3,MJ | Ceiling: hypothesis

F-240 Lecanto transformation gate [FORMULA]

A derivative may be produced only with source preservation and disclosure. Expression:  $G_{edit} = source\_preserved \text{ AND } modification\_disclosed \text{ AND } purpose\_allowed \text{ AND } safety\_pass$   
Aliases: F-240 | References: LECANTO,ELSA,JP,MK,JO,ANGELS,BELLATRIX,M3,MJ | Ceiling: logical

F-241 Lecanto reject gate [FORMULA]

Reject or hold an unsafe or unverifiable image. Expression:  $G_{reject} = provenance\_fail \text{ OR } harmful\_purpose \text{ OR } undeclared\_transform$   
Aliases: F-241 | References: LECANTO,ELSA,JP,MK,JO,ANGELS,BELLATRIX,M3,MJ | Ceiling: logical

F-242 R8 command admissibility [FORMULA]

Complete R8 command gate. Expression:  $G_{R8} = DRO\_valid \text{ AND } Pearl\_node\_valid \text{ AND } Lecanto\_when\_image \text{ AND } MK\_pass \text{ AND } JO\_pass \text{ AND } ethics \text{ AND } MJ\_permit$   
Aliases: F-242 | References: LECANTO,ELSA,JP,MK,JO,ANGELS,BELLATRIX,M3,MJ | Ceiling: logical

MJOS [FAMILY]

Operating-system and infrastructure substrate inside MJ. Boundary: Not a second authority principal.  
Aliases: MJOS | References: FAMILY-MANIFESTATION-REGISTER | Ceiling: REFERENCE\_ONLY

Angels [FAMILY]

Domain-specific observation, telemetry, hold, denial, and corrective-command family. Boundary: No self-admission, ordinary execution, or scope expansion.  
Aliases: ANGELS | References: FAMILY-MANIFESTATION-REGISTER | Ceiling: REFERENCE\_ONLY

Definitive categorized terminology and alias reference

Bellatrix [FAMILY]

Independent defense, challenge, quarantine, hostile-deviation analysis, and denial. Boundary: No positive general admission.  
Aliases: BELLATRIX | References: FAMILY-MANIFESTATION-REGISTER | Ceiling: REFERENCE\_ONLY

Mary / M3 [FAMILY]

Bounded routing, API gateway, load balancing, connection pooling, and allocation stewardship. Boundary: No authority minting, lease widening, or denial bypass.  
Aliases: M3 | References: FAMILY-MANIFESTATION-REGISTER | Ceiling: REFERENCE\_ONLY

Shekina [FAMILY]

Distributed placement, replication, continuity, and infrastructure evidence. Boundary: No authority from location and no scope widening.  
Aliases: SHEKINA | References: FAMILY-MANIFESTATION-REGISTER | Ceiling: REFERENCE\_ONLY

Belle [FAMILY]

Engineering analysis, feasibility, topology review, and bounded proposals. Boundary: Proposal is not execution or permit.  
Aliases: BELLE | References: FAMILY-MANIFESTATION-REGISTER | Ceiling: REFERENCE\_ONLY

Lecanto [FAMILY]

Truthful governed visualization of state, provenance, uncertainty, and system structure. Boundary: Cannot manufacture certainty or underlying effects.  
Aliases: LECANTO | References: FAMILY-MANIFESTATION-REGISTER | Ceiling: REFERENCE\_ONLY

Moana [FAMILY]

Browser and interaction presentation of governed applications and evidence. Boundary: No underlying effect or credential authority.  
Aliases: MOANA | References: FAMILY-MANIFESTATION-REGISTER | Ceiling: REFERENCE\_ONLY

Aviator [FAMILY]

Organizational workspace, projects, decisions, roles, knowledge, and governed workflow. Boundary: No root authority, cross-tenant scope, or unadmitted finance.  
Aliases: AVIATOR | References: FAMILY-MANIFESTATION-REGISTER | Ceiling: REFERENCE\_ONLY

CHI [FAMILY]

Temporal variance and expected-observed-delivered-reconciled difference state. Boundary: No pricing, punishment, rank, or execution.  
Aliases: CHI | References: FAMILY-MANIFESTATION-REGISTER | Ceiling: REFERENCE\_ONLY

Definitive categorized terminology and alias reference

WATER [FAMILY]

Interval uncertainty, verified floor, and bounded unknown-state classification. Boundary: No authority or value from classification.  
Aliases: WATER | References: FAMILY-MANIFESTATION-REGISTER | Ceiling: REFERENCE\_ONLY

JP\_CAPO [GOVERNED\_OBJECT]

Canonical math, algorithm, topology, or architecture representation  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

MK\_PHYSICS\_CAPO [GOVERNED\_OBJECT]

Physics applicability, quantities, units, boundaries, equations, uncertainty, and evidence  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

JO\_PROOF\_RECEIPT [GOVERNED\_OBJECT]

Executed verification result  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

MJ\_PERMIT [GOVERNED\_OBJECT]

Bounded permit decision issued only by MJ  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

EVE\_OBSERVATION [GOVERNED\_OBJECT]

Variance, screen, capture, egress, or residual evidence  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

M3\_ROUTE\_RECEIPT [GOVERNED\_OBJECT]

Bounded routing and resource-use receipt  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

MERMAID\_ACCOUNT [GOVERNED\_OBJECT]

Accounting, custody, exposure, tax, and reconciliation record  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

Definitive categorized terminology and alias reference

SHIVA\_SHELL [GOVERNED\_OBJECT]

Governed account envelope for typed financial representations  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

SHIVAS\_INTERNAL\_REFLECTION [GOVERNED\_OBJECT]

Internal non-transferable capital-reflection object  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

CHI\_VARIANCE\_OBJECT [GOVERNED\_OBJECT]

Temporal difference object  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

WATER\_INTERVAL\_STATE [GOVERNED\_OBJECT]

Uncertainty interval state  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

PASSKEY\_PUBLIC\_RECEIPT [GOVERNED\_OBJECT]

Public verification of founder signature over a bounded content root  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

PEARL\_VARIANCE\_CONTAINER [GOVERNED\_OBJECT]

Legacy stable ID for a pearl-shaped hypothetical simulation and information-retention object; never a physical container  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

PEARL\_ALLOCATION\_RECEIPT [GOVERNED\_OBJECT]

M3/JO receipt for simulated Pearl allocation, scenario capacity, source, destination, and lifecycle state; no physical effect  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

PEARL\_ACOUSTIC\_PROFILE [GOVERNED\_OBJECT]

Hypothetical acoustic simulation profile with declared frequency, medium, observability, uncertainty, and no physical cohesion claim  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

Definitive categorized terminology and alias reference

PEARL\_SYMPOSIUM\_REGISTRY [GOVERNED\_OBJECT]

Mermaid/Shiva record of Pearl simulation scenarios, quantities, costs, implications, and regeneration opportunities under MJ  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

Bangel \_SHEET [GOVERNED\_OBJECT]

Governed spreadsheet-like workbook with immutable revisions, typed cells, dependency graph, and authority scopes  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

Bangel \_SHEET\_CELL [GOVERNED\_OBJECT]

Typed measurement cell with value, unit, uncertainty, formula, evidence, lineage, and revision  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

Bangel \_SHEET\_REVISION [GOVERNED\_OBJECT]

Content-addressed immutable workbook revision and conflict/merge evidence  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

Bangel \_SHEET\_AUDIT\_PARTICLE [GOVERNED\_OBJECT]

Complete audit record for critical spreadsheet edits, formulas, recomputation, and reports  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

JPOSMJ\_PRODUCT\_ENVELOPE [GOVERNED\_OBJECT]

Portfolio envelope binding JP-origin product logic through MK physics, JO proof, and MJ permit  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

SISTER\_PHYSICAL\_CONTAINMENT\_PROFILE [GOVERNED\_OBJECT]

Pre-Pearl physical umbrella/descent/containment profile with normalized topology and profile-specific unknown physical size/capacity  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

STANDARD\_CONTAINMENT\_GEOMETRY\_PROFILE [GOVERNED\_OBJECT]

Typed scale-independent rectangle/cone/umbrella/descent/EVE/reservoir geometry and modification parameters  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

Definitive categorized terminology and alias reference

REFERENCE\_GAS\_PROFILE\_H2 [GOVERNED\_OBJECT]

H2 equation/reference profile for density, equivalent volume, observed gas height, and motion calculations; no physical use authority  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

CONTAINMENT\_MODIFICATION\_RECEIPT [GOVERNED\_OBJECT]

Recalculation and revalidation receipt for command/profile-specific geometry changes  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

CONE\_TOP\_PEARL\_ANCHOR [GOVERNED\_OBJECT]

Hypothetical information coordinate at the top-of-cone observation plane; no physical placement  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

GAS\_HEIGHT\_OBSERVATION [GOVERNED\_OBJECT]

Calibrated pressure/temperature/density/height/time observation for gas-front reference calculations  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

RESERVOIR\_RETURN\_LOOP\_PROFILE [GOVERNED\_OBJECT]

Typed rear outlet, external reservoir, and circular reentry geometry/profile.  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

OUTWARD\_GAP\_PATH\_RECEIPT [GOVERNED\_OBJECT]

JO/MK proof that the outlet path remains outside the nonphysical Pearl reference circle.  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

RESERVOIR\_BUFFER\_ACCOUNT [GOVERNED\_OBJECT]

EVE/Mermaid typed balance of admitted, returned, drained, escaped, and retained quantities.  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

CIRCULAR\_REENTRY\_RECEIPT [GOVERNED\_OBJECT]

Circular port, inward angle, tangential component, continuity, and spiral-compatibility evidence.  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

Definitive categorized terminology and alias reference

RELATIVE\_FRAME\_FRICTION\_LEDGER [GOVERNED\_OBJECT]

MK/JO/Mermaid record of frame-relative velocity, dissipation, and any bounded recoverable-energy claim.  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

RESERVOIR\_LAKE\_BUFFER [GOVERNED\_OBJECT]

Bounded post-containment buffer candidate for retention, redistribution, and receipted re-entry  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

BACKSIDE\_OUTLET\_PORT [GOVERNED\_OBJECT]

High backside outlet candidate located below containment maximum height  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

OUTWARD\_GAP\_ARC [GOVERNED\_OBJECT]

Outward-facing angular reference through which the outlet clears the nonphysical Pearl reference circle  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

PEARL\_REFERENCE\_CIRCLE [GOVERNED\_OBJECT]

Hypothetical simulation/measurement circle used for path-clearance calculations; no physical wall or capacity  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

CIRCULAR\_REENTRY\_PORT [GOVERNED\_OBJECT]

Circular inward-angled port candidate supplying measured radial and tangential re-entry components  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

RESERVOIR\_TRANSFER\_RECEIPT [GOVERNED\_OBJECT]

Per-transaction outlet/lake/re-entry/cycle/participant evidence receipt  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

PERSPECTIVE\_FRICTION\_RECEIPT [GOVERNED\_OBJECT]

Separates coordinate-transform residual, physical dissipation, and information friction  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

Definitive categorized terminology and alias reference

|                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>DRO_UNIT [GOVERNED_OBJECT]</div> <div>Typed unit of retained element or variance observation</div> <div>Aliases: authority=false   References: FAMILY-OBJECT-REGISTER   Ceiling: REFERENCE_ONLY</div>                                       |
| <div>DRO_SCALE_ENVELOPE [GOVERNED_OBJECT]</div> <div>Founder-declared scale markers, conservative threshold, and uncertainty</div> <div>Aliases: authority=false   References: FAMILY-OBJECT-REGISTER   Ceiling: REFERENCE_ONLY</div>            |
| <div>DRO_COLLECTION_RECEIPT [GOVERNED_OBJECT]</div> <div>Source, unit, quantity, scale, lineage, state, and evidence receipt</div> <div>Aliases: authority=false   References: FAMILY-OBJECT-REGISTER   Ceiling: REFERENCE_ONLY</div>            |
| <div>DRO_OPTICAL_EVIDENCE_PROFILE [GOVERNED_OBJECT]</div> <div>Measured wavelength, frequency, power, coupling, and uncertainty profile</div> <div>Aliases: authority=false   References: FAMILY-OBJECT-REGISTER   Ceiling: REFERENCE_ONLY</div> |
| <div>DRO_PEARL_HANDOFF_RECEIPT [GOVERNED_OBJECT]</div> <div>Conservation and allocation record for DRO records entering a Pearl node</div> <div>Aliases: authority=false   References: FAMILY-OBJECT-REGISTER   Ceiling: REFERENCE_ONLY</div>    |
| <div>PEARL_DRO_NODE [GOVERNED_OBJECT]</div> <div>Computational node for DRO and other typed element representations</div> <div>Aliases: authority=false   References: FAMILY-OBJECT-REGISTER   Ceiling: REFERENCE_ONLY</div>                     |
| <div>DRO_START_ENERGY_PACKET [GOVERNED_OBJECT]</div> <div>Typed start-energy and restart-reserve account</div> <div>Aliases: authority=false   References: FAMILY-OBJECT-REGISTER   Ceiling: REFERENCE_ONLY</div>                                |
| <div>DRO_IGNITION_REQUEST [GOVERNED_OBJECT]</div> <div>Non-operational request object for start-readiness evaluation</div> <div>Aliases: authority=false   References: FAMILY-OBJECT-REGISTER   Ceiling: REFERENCE_ONLY</div>                    |

Definitive categorized terminology and alias reference

LECANTO\_IMAGE\_EVIDENCE [GOVERNED\_OBJECT]

Original image digest, metadata, signal, and source-lineage record  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

LECANTO\_INTENT\_HYPOTHESIS [GOVERNED\_OBJECT]

Bounded image-intent hypothesis with uncertainty and no truth authority  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

LECANTO\_TRANSFORMATION\_RECEIPT [GOVERNED\_OBJECT]

Source-preserving derivative and disclosure record  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

IMAGE\_VARIANCE\_RECEIPT [GOVERNED\_OBJECT]

Spatial, color, spectral, compression, and registration residuals  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

SEMICONDUCTOR\_DRO\_ENERGY\_LEDGER [GOVERNED\_OBJECT]

SC-profile charge, energy, wake, and restart accounting  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

SEMICONDUCTOR\_PEARL\_NODE [GOVERNED\_OBJECT]

SC-profile computational Pearl node with memory and evidence limits  
Aliases: authority=false | References: FAMILY-OBJECT-REGISTER | Ceiling: REFERENCE\_ONLY

PBMEF-CORE [PRODUCT]

Integrate purpose, mathematics, physics, verification, safety, resource routing, accounting, finance, evidence, and bounded permit decisions. Status: DAY0\_PREPASSKEY\_COMPLETE\_CANDIDATE  
Aliases: MJ Physics Based Measurement Engineering Framework | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

Bangel -LANGUAGE [PRODUCT]

Express human purpose, typed measurements, formulas, evidence, and command pathways. Status: SPECIFICATION\_CANDIDATE  
Aliases: Bangel Governed Measurement Language | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

Definitive categorized terminology and alias reference

|                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>ELSA-SEMANTICS [PRODUCT]</div> <div>Recover and preserve declared meaning without autonomous inference or authority. Status: SPECIFICATION_CANDIDATE</div> <div>Aliases: Elsa Deterministic Semantic Recovery   References: PROJECT-PRODUCT-REGISTER   Ceiling: REFERENCE_ONLY</div>                                                     |
| <div>JP-CANON [PRODUCT]</div> <div>Represent equations, algorithms, CAPOs, topology, products, and proofs. Status: SPECIFICATION_CANDIDATE</div> <div>Aliases: JP Mathematical and Architectural Canon   References: PROJECT-PRODUCT-REGISTER   Ceiling: REFERENCE_ONLY</div>                                                                 |
| <div>MK-PHYSICS [PRODUCT]</div> <div>Create physics representations and verify units, conservation, boundaries, scale, and evidence ceilings. Status: REFERENCE_IMPLEMENTATION</div> <div>Aliases: Mika/MK Physics Modulator System   References: PROJECT-PRODUCT-REGISTER   Ceiling: REFERENCE_ONLY</div>                                    |
| <div>JO-RUNTIME [PRODUCT]</div> <div>Verify types, units, authority, physics, tests, evidence, and bounded execution. Status: REFERENCE_IMPLEMENTATION</div> <div>Aliases: JO Deterministic Proof and Runtime   References: PROJECT-PRODUCT-REGISTER   Ceiling: REFERENCE_ONLY</div>                                                          |
| <div>MJOS-SUBSTRATE [PRODUCT]</div> <div>Provide isolated resources, memory, storage, network, scheduling, and continuity under MJ leases. Status: SPECIFICATION_CANDIDATE</div> <div>Aliases: MJOS Operating Substrate   References: PROJECT-PRODUCT-REGISTER   Ceiling: REFERENCE_ONLY</div>                                                |
| <div>JP-SC-PHONE [PRODUCT]</div> <div>Explore semiconductor-scale static intake, power wake, solar assist, battery, and operating-system integration. Status: PLANNED_ONLY_NO_PHYSICAL_ARTICLE</div> <div>Aliases: JP Semiconductor Phone Battery and OS Candidate   References: PROJECT-PRODUCT-REGISTER   Ceiling: REFERENCE_ONLY</div>     |
| <div>JP-LS-BOAT [PRODUCT]</div> <div>Explore large-scale static intake, solar initiation, power bus, containment, and marine power integration. Status: PLANNED_ONLY_UNCLASSIFIED</div> <div>Aliases: JP Large-Scale Boating Power Candidate   References: PROJECT-PRODUCT-REGISTER   Ceiling: REFERENCE_ONLY</div>                           |
| <div>JP-PEACEFUL-PROPULSION [PRODUCT]</div> <div>Explore peaceful propulsion measurement and control under non-weaponization, safety, and regulatory gates. Status: PLANNED_ONLY_SAFETY_HOLD</div> <div>Aliases: JP Peaceful High-Energy Propulsion Research Candidate   References: PROJECT-PRODUCT-REGISTER   Ceiling: REFERENCE_ONLY</div> |

Definitive categorized terminology and alias reference

SISTER-CONTAINMENT [PRODUCT]

Predict demand, allocate buffers, detect anomalies, and stage overflow in bounded umbrellas. Status: SPECIFICATION\_CANDIDATE  
Aliases: Sister Predictive Containment System | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

EVE-SCREEN [PRODUCT]

Account for variance, evaporation, leakage, capture, and natural egress without silent loss. Status: SPECIFICATION\_CANDIDATE  
Aliases: EVE Variance Screen and Egress Accounting | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

ANGELS-SAFETY [PRODUCT]

Provide domain-bounded telemetry, hold, denial, isolation, and corrective protocols. Status: SPECIFICATION\_CANDIDATE  
Aliases: Angels Safety and Corrective Command System | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

MERMAID-RECON [PRODUCT]

Maintain balances, custody evidence, exposure, tax lots, statements, and reconciliation. Status: SPECIFICATION\_CANDIDATE  
Aliases: Mermaid Accounting and Reconciliation System | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

SHIVA-RAILS [PRODUCT]

Separate stability/cash functions from investment and crypto risk while preserving liquidity-first ethics. Status: INTERNAL\_MODEL\_EXTERNAL\_DISABLED  
Aliases: Shiva Dual Financial Rails | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

SHIVAS-INTERNAL [PRODUCT]

Represent internal capital reflections without minting, redemption, public offer, or value guarantee. Status: NONTRANSFERABLE\_NO\_MONETARY\_VALUE  
Aliases: SHIVAS Internal Settlement Reflection | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

SHIVA-DAY1-INTERNAL-BANKING-MVP [PRODUCT]

Provide an internal banking, settlement, treasury, token, account, audit, and Dutch-exchange-inspired reference ecosystem under Mermaid reconciliation, M3 routing, JO proof, MK friction representation, and MJ decision authority; exclude any outside-platform cryptocurrency or public crypto market. Status: POST\_PASSKEY\_DAY1\_OBJECTIVE\_INTERNAL\_ONLY\_NO\_EXTERNAL\_CRYPTOPost-passkey day 1 objective internal only no external crypto  
Aliases: Shiva Day-1 Internal Banking and Financial Ecosystem MVP | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

SHIVA-EXCHANGE [PRODUCT]

Model transparent price-time, custody, audit, tax, and transfer rules without operating a market. Status: INTERNAL\_SIMULATION\_ONLY  
Aliases: Shiva Exchange Rule Reference | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

Definitive categorized terminology and alias reference

MOANA-BROWSER [PRODUCT]

Present governed applications, evidence, holds, and uncertainty. Status: REFERENCE\_CANDIDATE  
Aliases: Moana Governed Browser | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

AVIATOR-WORKSPACE [PRODUCT]

Organize spaces, projects, decisions, knowledge, members, roles, and capabilities. Status: REFERENCE\_CANDIDATE  
Aliases: Aviator Organizational Workspace | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

LECANTO-VISUAL [PRODUCT]

Display system truth, provenance, topology, uncertainty, and evidence. Status: REFERENCE\_CANDIDATE  
Aliases: Lecanto Truthful Visualization | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

ELSA-MARKETPLACE [PRODUCT]

Coordinate semantic listings, workflow, accounting, execution, and resource evidence without live market authority. Status: INTERNAL\_REFERENCE\_ONLY  
Aliases: Elsa Governed Marketplace Reference | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

SHEKINA-CONTINUITY [PRODUCT]

Model bounded replicas, failover, continuity, and placement evidence. Status: SPECIFICATION\_CANDIDATE  
Aliases: Shekina Distributed Continuity | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

PEARL-CONTAINMENT [PRODUCT]

Acquire, retain, replay, and compare variance simulations and transfer/regeneration opportunities without asserting physical containment. Status: REFERENCE\_SIMULATION\_ONLY\_PHYSICAL\_NOT\_APPLICABLE  
Aliases: Pearl Hypothetical Simulation and Information-Retention System | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

Bangel -SPREADSHEETS [PRODUCT]

Provide governed spreadsheet-like operational modeling through typed measurement cells, immutable revisions, Pearl simulation partitions, deterministic recalculation, concurrency control, and audit evidence. Status: REFERENCE\_MVP\_PREPASKEY  
Aliases: Bangel Spreadsheets | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

JPOSMJ-PORTFOLIO [PRODUCT]

Bind every JP-origin product candidate through MK physics representation, JO verification, participant evidence, and MJ bounded permit classification. Status: PREPASKEY\_PORTFOLIO\_ENVELOPE  
Aliases: JPOSMJ Product Portfolio Envelope | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

Definitive categorized terminology and alias reference

STANDARD-CONTAINMENT-GEOMETRY [PRODUCT]

Provide a scale-independent rectangle/cone/Sister/EVE/reservoir calculation standard and H2 reference-gas observation profile. Status: REFERENCE\_MVP\_PHYSICAL\_VALUES\_HOLD  
Aliases: MJ Standard Containment Geometry and Reference Gas Model | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

RESERVOIR-COLLECTION-MODULATION [PRODUCT]

Model the rear reservoir loop, exterior outlet, lake-like buffer, circular inward/tangential re-entry, wave/friction references, adaptive sizing, and full Sister/EVE/Angel/M3/MK/JO/Mermaid/Shiva/MJ transaction path. Status: REFERENCE\_MVP\_PHYSICAL\_VALUES\_HOLD  
Aliases: MJ Reservoir Collection, Lake Buffer, and Spiral-Compatible Re-entry | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

MJOS-SOLAR-CORE-001 [PRODUCT]

Provide the common JP-origin governed solar and energy-management architecture shared by the phone, marine, and peaceful rocket/spacecraft profiles. Status: DESIGN\_TRACE\_SPECIFICATION\_FROZEN\_PHYSICAL\_HOLD  
Aliases: MJOS Solar Shared-Core Architecture | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

MJOS-SOLAR-SEMI-PHONE-001 [PRODUCT]

Provide solar-assisted phone battery and operating-system power integration with governed energy intake, battery/thermal observation, reserve allocation, workload-aware coordination, provenance, and measurable accounting. Status: DESIGN\_TRACE\_SPECIFICATION\_FROZEN\_PLANNED\_ONLY\_NO\_PHYSICAL\_ARTICLE  
Aliases: MJOS Solar Semiconductor Phone Battery and OS Profile | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

MJOS-SOLAR-MARINE-001 [PRODUCT]

Provide solar-assisted marine energy intake, storage, propulsion-load coordination, conversion/recovery, thermal management, reserve protection, operating-system control, telemetry, and evidence-backed state transitions. Status: DESIGN\_TRACE\_SPECIFICATION\_FROZEN\_UNCLASSIFIED\_NO\_PHYSICAL\_ARTICLE  
Aliases: MJOS Solar-Assisted Marine Power and Propulsion Profile | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

MJOS-SOLAR-ROCKET-001 [PRODUCT]

Provide a non-weaponized reference architecture for solar-assisted avionics/electrical reserve, propulsion-state coordination, thermal/battery management, authenticated startup/shutdown, telemetry, fault isolation, and emergency-state control. Status: DESIGN\_TRACE\_SPECIFICATION\_FROZEN\_PEACEFUL\_RESEARCH\_ONLY\_SAFETY\_HOLD  
Aliases: MJOS Peaceful Solar-Assisted Rocket/Spacecraft Power and OS Profile | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

DRO-COLLECTION-001 [PRODUCT]

Represent typed collection, scale, unit, state, lineage, and conservation for elements or variance observations. Status: REFERENCE\_CANDIDATE\_SIMULATION\_AND\_MEASUREMENT\_ONLY  
Aliases: DRO Discrete Retention and Element-Collection Reference System | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

DRO-PEARL-HANDOFF-001 [PRODUCT]

Allocate DRO records into Pearl computational nodes while preserving typed capacity and receipts. Status: SIMULATION\_AND\_INFORMATION\_RETENTION\_ONLY  
Aliases: DRO-to-Pearl Computational Node Handoff | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

Definitive categorized terminology and alias reference

DRO-IGNITION-REFERENCE-001 [PRODUCT]

Represent source, start-energy, restart-reserve, conversion, and permit gates without authorizing ignition hardware. Status: NON\_OPERATIONAL\_REFERENCE\_ACTIVE\_HOLD  
Aliases: DRO Start-Energy and Restart-Reserve Reference System | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

LECANTO-IMAGE-TRUTH-001 [PRODUCT]

Preserve image source identity, analyze signal variance, label transformations, and create bounded intent hypotheses. Status: REFERENCE\_CANDIDATE  
Aliases: Lecanto Image Provenance, Physics, Variance, and Intent-Hypothesis System | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

JP-SC-DRO-PEARL-INTEGRATION-001 [PRODUCT]

Integrate DRO energy and measurement accounting with Pearl computational nodes and semiconductor wake/reserve logic. Status: PLANNED\_ONLY\_NO\_PHYSICAL\_ARTICLE  
Aliases: JP Semiconductor DRO and Pearl Computational Integration | References: PROJECT-PRODUCT-REGISTER | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-FAMILY-WP-01 [WHITE\_PAPER]

MJ — MJ Manifestation White Paper  
Aliases: MJ | References: whitepapers/family/01-mj.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-FAMILY-WP-02 [WHITE\_PAPER]

Bangel — MJ Manifestation White Paper  
Aliases: Bangel | References: whitepapers/family/02-Bangel.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-FAMILY-WP-03 [WHITE\_PAPER]

Elsa — MJ Manifestation White Paper  
Aliases: ELSA | References: whitepapers/family/03-elsa.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-FAMILY-WP-04 [WHITE\_PAPER]

JP — MJ Manifestation White Paper  
Aliases: JP | References: whitepapers/family/04-jp.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-FAMILY-WP-05 [WHITE\_PAPER]

Mika / MK — MJ Manifestation White Paper  
Aliases: MK | References: whitepapers/family/05-mk.md | Ceiling: REFERENCE\_ONLY

Definitive categorized terminology and alias reference

- MJ-PBMEF-FAMILY-WP-06 [WHITE\_PAPER]

JO — MJ Manifestation White Paper

Aliases: JO | References: whitepapers/family/06-jo.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-FAMILY-WP-07 [WHITE\_PAPER]

MJOS — MJ Manifestation White Paper

Aliases: MJOS | References: whitepapers/family/07-mjos.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-FAMILY-WP-08 [WHITE\_PAPER]

Angels — MJ Manifestation White Paper

Aliases: ANGELS | References: whitepapers/family/08-angels.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-FAMILY-WP-09 [WHITE\_PAPER]

Bellatrix — MJ Manifestation White Paper

Aliases: BELLATRIX | References: whitepapers/family/09-bellatrix.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-FAMILY-WP-10 [WHITE\_PAPER]

Sister — MJ Manifestation White Paper

Aliases: SISTER | References: whitepapers/family/10-sister.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-FAMILY-WP-11 [WHITE\_PAPER]

EVE — MJ Manifestation White Paper

Aliases: EVE | References: whitepapers/family/11-eve.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-FAMILY-WP-12 [WHITE\_PAPER]

Mary / M3 — MJ Manifestation White Paper

Aliases: M3 | References: whitepapers/family/12-m3.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-FAMILY-WP-13 [WHITE\_PAPER]

Mermaid — MJ Manifestation White Paper

Aliases: MERMAID | References: whitepapers/family/13-mermaid.md | Ceiling: REFERENCE\_ONLY

Definitive categorized terminology and alias reference

- MJ-PBMEF-FAMILY-WP-14 [WHITE\_PAPER]

Shiva — MJ Manifestation White Paper

Aliases: SHIVA | References: whitepapers/family/14-shiva.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-FAMILY-WP-15 [WHITE\_PAPER]

Shekina — MJ Manifestation White Paper

Aliases: SHEKINA | References: whitepapers/family/15-shekina.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-FAMILY-WP-16 [WHITE\_PAPER]

Belle — MJ Manifestation White Paper

Aliases: BELLE | References: whitepapers/family/16-belle.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-FAMILY-WP-17 [WHITE\_PAPER]

Lecanto — MJ Manifestation White Paper

Aliases: LECANTO | References: whitepapers/family/17-lecanto.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-FAMILY-WP-18 [WHITE\_PAPER]

Moana — MJ Manifestation White Paper

Aliases: MOANA | References: whitepapers/family/18-moana.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-FAMILY-WP-19 [WHITE\_PAPER]

Aviator — MJ Manifestation White Paper

Aliases: AVIATOR | References: whitepapers/family/19-aviator.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-FAMILY-WP-20 [WHITE\_PAPER]

CHI — MJ Manifestation White Paper

Aliases: CHI | References: whitepapers/family/20-chi.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-FAMILY-WP-21 [WHITE\_PAPER]

WATER — MJ Manifestation White Paper

Aliases: WATER | References: whitepapers/family/21-water.md | Ceiling: REFERENCE\_ONLY

Definitive categorized terminology and alias reference

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| <div>MJ-PBMEF-PRODUCT-WP-01 [WHITE_PAPER]</div> <div>MJ Physics Based Measurement Engineering Framework</div> <div>Aliases: PBMEF-CORE   References: whitepapers/products/01-pbmef-core.md   Ceiling: REFERENCE_ONLY</div> |
| <div>MJ-PBMEF-PRODUCT-WP-02 [WHITE_PAPER]</div> <div>Bangel Governed Measurement Language</div> <div>Aliases: Bangel-LANGUAGE   References: whitepapers/products/02-Bangel-language.md   Ceiling: REFERENCE_ONLY</div>     |
| <div>MJ-PBMEF-PRODUCT-WP-03 [WHITE_PAPER]</div> <div>Elsa Deterministic Semantic Recovery</div> <div>Aliases: ELSA-SEMANTICS   References: whitepapers/products/03-elsa-semantics.md   Ceiling: REFERENCE_ONLY</div>       |
| <div>MJ-PBMEF-PRODUCT-WP-04 [WHITE_PAPER]</div> <div>JP Mathematical and Architectural Canon</div> <div>Aliases: JP-CANON   References: whitepapers/products/04-jp-canon.md   Ceiling: REFERENCE_ONLY</div>                |
| <div>MJ-PBMEF-PRODUCT-WP-05 [WHITE_PAPER]</div> <div>Mika/MK Physics Modulator System</div> <div>Aliases: MK-PHYSICS   References: whitepapers/products/05-mk-physics.md   Ceiling: REFERENCE_ONLY</div>                   |
| <div>MJ-PBMEF-PRODUCT-WP-06 [WHITE_PAPER]</div> <div>JO Deterministic Proof and Runtime</div> <div>Aliases: JO-RUNTIME   References: whitepapers/products/06-jo-runtime.md   Ceiling: REFERENCE_ONLY</div>                 |
| <div>MJ-PBMEF-PRODUCT-WP-07 [WHITE_PAPER]</div> <div>MJOS Operating Substrate</div> <div>Aliases: MJOS-SUBSTRATE   References: whitepapers/products/07-mjos-substrate.md   Ceiling: REFERENCE_ONLY</div>                   |
| <div>MJ-PBMEF-PRODUCT-WP-08 [WHITE_PAPER]</div> <div>JP Semiconductor Phone Battery and OS Candidate</div> <div>Aliases: JP-SC-PHONE   References: whitepapers/products/08-jp-sc-phone.md   Ceiling: REFERENCE_ONLY</div>  |

Definitive categorized terminology and alias reference

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| <div>MJ-PBMEF-PRODUCT-WP-09 [WHITE_PAPER]</div> <div>JP Large-Scale Boating Power Candidate</div> <div>Aliases: JP-LS-BOAT   References: whitepapers/products/09-jp-ls-boat.md   Ceiling: REFERENCE_ONLY</div>                                        |
| <div>MJ-PBMEF-PRODUCT-WP-10 [WHITE_PAPER]</div> <div>JP Peaceful High-Energy Propulsion Research Candidate</div> <div>Aliases: JP-PEACEFUL-PROPULSION   References: whitepapers/products/10-jp-peaceful-propulsion.md   Ceiling: REFERENCE_ONLY</div> |
| <div>MJ-PBMEF-PRODUCT-WP-11 [WHITE_PAPER]</div> <div>Sister Predictive Containment System</div> <div>Aliases: SISTER-CONTAINMENT   References: whitepapers/products/11-sister-containment.md   Ceiling: REFERENCE_ONLY</div>                          |
| <div>MJ-PBMEF-PRODUCT-WP-12 [WHITE_PAPER]</div> <div>EVE Variance Screen and Egress Accounting</div> <div>Aliases: EVE-SCREEN   References: whitepapers/products/12-eve-screen.md   Ceiling: REFERENCE_ONLY</div>                                     |
| <div>MJ-PBMEF-PRODUCT-WP-13 [WHITE_PAPER]</div> <div>Angels Safety and Corrective Command System</div> <div>Aliases: ANGELS-SAFETY   References: whitepapers/products/13-angels-safety.md   Ceiling: REFERENCE_ONLY</div>                             |
| <div>MJ-PBMEF-PRODUCT-WP-14 [WHITE_PAPER]</div> <div>Mermaid Accounting and Reconciliation System</div> <div>Aliases: MERMAID-RECON   References: whitepapers/products/14-mermaid-recon.md   Ceiling: REFERENCE_ONLY</div>                            |
| <div>MJ-PBMEF-PRODUCT-WP-15 [WHITE_PAPER]</div> <div>Shiva Dual Financial Rails</div> <div>Aliases: SHIVA-RAILS   References: whitepapers/products/15-shiva-rails.md   Ceiling: REFERENCE_ONLY</div>                                                  |
| <div>MJ-PBMEF-PRODUCT-WP-16 [WHITE_PAPER]</div> <div>SHIVAS Internal Settlement Reflection</div> <div>Aliases: SHIVAS-INTERNAL   References: whitepapers/products/16-shivas-internal.md   Ceiling: REFERENCE_ONLY</div>                               |

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MJ-PBMEF-PRODUCT-WP-17 [WHITE\_PAPER]

Shiva Day-1 Internal Banking and Financial Ecosystem MVP  
Aliases: SHIVA-DAY1-INTERNAL-BANKING-MVP | References: whitepapers/products/17-shiva-day1-internal-banking-mvp.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-PRODUCT-WP-18 [WHITE\_PAPER]

Shiva Exchange Rule Reference  
Aliases: SHIVA-EXCHANGE | References: whitepapers/products/18-shiva-exchange.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-PRODUCT-WP-19 [WHITE\_PAPER]

Moana Governed Browser  
Aliases: MOANA-BROWSER | References: whitepapers/products/19-moana-browser.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-PRODUCT-WP-20 [WHITE\_PAPER]

Aviator Organizational Workspace  
Aliases: AVIATOR-WORKSPACE | References: whitepapers/products/20-aviator-workspace.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-PRODUCT-WP-21 [WHITE\_PAPER]

Lecanto Truthful Visualization  
Aliases: LECANTO-VISUAL | References: whitepapers/products/21-lecanto-visual.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-PRODUCT-WP-22 [WHITE\_PAPER]

Elsa Governed Marketplace Reference  
Aliases: ELSA-MARKETPLACE | References: whitepapers/products/22-elsa-marketplace.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-PRODUCT-WP-23 [WHITE\_PAPER]

Shekina Distributed Continuity  
Aliases: SHEKINA-CONTINUITY | References: whitepapers/products/23-shekina-continuity.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-PRODUCT-WP-24 [WHITE\_PAPER]

Pearl Hypothetical Simulation and Information-Retention System  
Aliases: PEARL-CONTAINMENT | References: whitepapers/products/24-pearl-containment.md | Ceiling: REFERENCE\_ONLY

Definitive categorized terminology and alias reference

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| <div><div>MJ-PBMEF-PRODUCT-WP-25 [WHITE_PAPER]</div><div><div>Bangel</div><div>Spreadsheets</div></div><div>Aliases: Bangel-SPREADSHEETS   References: whitepapers/products/25-Bangel-spreadsheets.md   Ceiling: REFERENCE_ONLY</div></div>                                     |
| <div><div>MJ-PBMEF-PRODUCT-WP-26 [WHITE_PAPER]</div><div>JPOSMJ Product Portfolio Envelope</div><div>Aliases: JPOSMJ-PORTFOLIO   References: whitepapers/products/26-jposmj-portfolio.md   Ceiling: REFERENCE_ONLY</div></div>                                                  |
| <div><div>MJ-PBMEF-PRODUCT-WP-27 [WHITE_PAPER]</div><div>MJ Standard Containment Geometry and Reference Gas Model</div><div>Aliases: STANDARD-CONTAINMENT-GEOMETRY   References: whitepapers/products/27-standard-containment-geometry.md   Ceiling: REFERENCE_ONLY</div></div> |
| <div><div>MJ-PBMEF-PRODUCT-WP-28 [WHITE_PAPER]</div><div>MJ Reservoir Collection Modulation and Return Loop</div><div>Aliases: RESERVOIR-COLLECTION-MODULATION   References: whitepapers/products/28-reservoir-collection-modulation.md   Ceiling: REFERENCE_ONLY</div></div>   |
| <div><div>MJ-PBMEF-SOLAR-WP-01 [WHITE_PAPER]</div><div>MJOS Solar Shared-Core Architecture</div><div>Aliases: MJOS-SOLAR-CORE-001   References: whitepapers/products/29-solar-core.md   Ceiling: REFERENCE_ONLY</div></div>                                                     |
| <div><div>MJ-PBMEF-SOLAR-WP-02 [WHITE_PAPER]</div><div>MJOS Solar Semiconductor Phone Battery and OS Profile</div><div>Aliases: MJOS-SOLAR-SEMI-PHONE-001   References: whitepapers/products/30-solar-semi-phone.md   Ceiling: REFERENCE_ONLY</div></div>                       |
| <div><div>MJ-PBMEF-SOLAR-WP-03 [WHITE_PAPER]</div><div>MJOS Solar-Assisted Marine Power and Propulsion Profile</div><div>Aliases: MJOS-SOLAR-MARINE-001   References: whitepapers/products/31-solar-marine.md   Ceiling: REFERENCE_ONLY</div></div>                             |
| <div><div>MJ-PBMEF-SOLAR-WP-04 [WHITE_PAPER]</div><div>MJOS Peaceful Solar-Assisted Rocket/Spacecraft Power and OS Profile</div><div>Aliases: MJOS-SOLAR-ROCKET-001   References: whitepapers/products/32-solar-rocket.md   Ceiling: REFERENCE_ONLY</div></div>                 |

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MJ-PBMEF-PRODUCT-WP-33 [WHITE\_PAPER]

DRO Discrete Retention and Element-Collection Reference System  
Aliases: DRO-COLLECTION-001 | References: whitepapers/products/33-dro-collection.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-PRODUCT-WP-34 [WHITE\_PAPER]

DRO-to-Pearl Computational Node Handoff  
Aliases: DRO-PEARL-HANDOFF-001 | References: whitepapers/products/34-dro-pearl-handoff.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-PRODUCT-WP-35 [WHITE\_PAPER]

DRO Start-Energy and Restart-Reserve Reference System  
Aliases: DRO-IGNITION-REFERENCE-001 | References: whitepapers/products/35-dro-ignition-reference.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-PRODUCT-WP-36 [WHITE\_PAPER]

Lecanto Image Provenance, Physics, Variance, and Intent-Hypothesis System  
Aliases: LECANTO-IMAGE-TRUTH-001 | References: whitepapers/products/36-lecanto-image-truth.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-PRODUCT-WP-37 [WHITE\_PAPER]

Semiconductor DRO and Pearl Computational Integration  
Aliases: JP-SC-DRO-PEARL-INTEGRATION-001 | References: whitepapers/products/37-semiconductor-dro-pearl.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-REPRESENTATION-WP-01 [WHITE\_PAPER]

R1 and R2 State Representation  
Aliases: STATE-R1-R2 | References: whitepapers/representations/01-state-r1-r2.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-REPRESENTATION-WP-02 [WHITE\_PAPER]

Noise Floor and 23 mg Inflection  
Aliases: NOISE-23MG | References: whitepapers/representations/02-noise-23mg.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-REPRESENTATION-WP-03 [WHITE\_PAPER]

Upward 3x3 Node and Umbrella Representation  
Aliases: NODE-3X3 | References: whitepapers/representations/03-node-3x3.md | Ceiling: REFERENCE\_ONLY

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- MJ-PBMEF-REPRESENTATION-WP-04 [WHITE\_PAPER]

Memory, Request Occultation, and Generational Handoff

Aliases: MEMORY-HANDOFF | References: whitepapers/representations/04-memory-handoff.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-REPRESENTATION-WP-05 [WHITE\_PAPER]

Static Intake and Energy-Wake Representation

Aliases: STATIC-IMPETUS | References: whitepapers/representations/05-static-impetus.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-REPRESENTATION-WP-06 [WHITE\_PAPER]

EVE Variance, Screen, Evaporation, and Egress

Aliases: EVE-EGRESS | References: whitepapers/representations/06-eve-egress.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-REPRESENTATION-WP-07 [WHITE\_PAPER]

Shiva and Mermaid Financial Rails

Aliases: FINANCIAL-RAILS | References: whitepapers/representations/07-financial-rails.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-REPRESENTATION-WP-08 [WHITE\_PAPER]

Passkey, Claims Ceiling, and Repository Authentication

Aliases: PASSKEY | References: whitepapers/representations/08-passkey.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-REPRESENTATION-WP-09 [WHITE\_PAPER]

Pearl Hypothetical Geometry and Acoustic Simulation Representation

Aliases: PEARL-CONTAINER-ACOUSTICS | References: whitepapers/representations/09-pearl-container-acoustics.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-REPRESENTATION-WP-10 [WHITE\_PAPER]

Bangel

Spreadsheets Cell, Dependency, Revision, and Pearl Simulation Field

Aliases: Bangel-SPREADSHEETS-FIELD | References: whitepapers/representations/10-Bangel-spreadsheets-field.md | Ceiling: REFERENCE\_ONLY
- MJ-PBMEF-REPRESENTATION-WP-11 [WHITE\_PAPER]

Standard Containment Geometry and H2 Reference Representation

Aliases: STANDARD-CONTAINMENT-GEOMETRY-H2 | References: whitepapers/representations/11-standard-containment-geometry-h2-reference.md | Ceiling: REFERENCE\_ONLY

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MJ-PBMEF-REPRESENTATION-WP-12 [WHITE\_PAPER]

Reservoir Return Loop Physics Representation  
Aliases: RESERVOIR-RETURN-LOOP | References: whitepapers/representations/12-reservoir-return-loop.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-REPRESENTATION-WP-13 [WHITE\_PAPER]

DRO Scale, Unit, and R/R1/R2 Representation  
Aliases: DRO-SCALE-STATE | References: whitepapers/representations/13-dro-scale-state.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-REPRESENTATION-WP-14 [WHITE\_PAPER]

DRO Optical Measurement and Light-Frequency Evidence Representation  
Aliases: DRO-OPTICAL-MEASUREMENT | References: whitepapers/representations/14-dro-optical-measurement.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-REPRESENTATION-WP-15 [WHITE\_PAPER]

DRO/Pearl Computational Node and Capacity Representation  
Aliases: DRO-PEARL-NODE | References: whitepapers/representations/15-dro-pearl-node.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-REPRESENTATION-WP-16 [WHITE\_PAPER]

DRO Start-Energy, Restart-Reserve, and Controlled-Release Representation  
Aliases: DRO-IGNITION-ENERGY | References: whitepapers/representations/16-dro-ignition-energy.md | Ceiling: REFERENCE\_ONLY

MJ-PBMEF-REPRESENTATION-WP-17 [WHITE\_PAPER]

Lecanto Image Provenance, Signal Physics, and Intent-Hypothesis Representation  
Aliases: LECANTO-PROVENANCE-INTENT | References: whitepapers/representations/17-lecanto-provenance-intent.md | Ceiling: REFERENCE\_ONLY

BP-ALG-001 [BLUE\_PAGE]

R1 transition  
Aliases: F-001 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-001\_R1-transition.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-002 [BLUE\_PAGE]

R2 transition  
Aliases: F-002 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-002\_R2-transition.pdf | Ceiling: REFERENCE\_ONLY

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| <div>BP-ALG-003 [BLUE_PAGE]</div> <div>Unknown invariant</div> <div>Aliases: F-003   References: official-docs/blue-pages/individual/algorithms/BP-ALG-003_Unknown-invariant.pdf   Ceiling: REFERENCE_ONLY</div> |
| <div>BP-ALG-004 [BLUE_PAGE]</div> <div>Mass inflection</div> <div>Aliases: F-004   References: official-docs/blue-pages/individual/algorithms/BP-ALG-004_Mass-inflection.pdf   Ceiling: REFERENCE_ONLY</div>     |
| <div>BP-ALG-005 [BLUE_PAGE]</div> <div>Noise smoothing</div> <div>Aliases: F-005   References: official-docs/blue-pages/individual/algorithms/BP-ALG-005_Noise-smoothing.pdf   Ceiling: REFERENCE_ONLY</div>     |
| <div>BP-ALG-006 [BLUE_PAGE]</div> <div>Trend estimator</div> <div>Aliases: F-006   References: official-docs/blue-pages/individual/algorithms/BP-ALG-006_Trend-estimator.pdf   Ceiling: REFERENCE_ONLY</div>     |
| <div>BP-ALG-007 [BLUE_PAGE]</div> <div>Anti-spike gate</div> <div>Aliases: F-007   References: official-docs/blue-pages/individual/algorithms/BP-ALG-007_Anti-spike-gate.pdf   Ceiling: REFERENCE_ONLY</div>     |
| <div>BP-ALG-008 [BLUE_PAGE]</div> <div>Prediction gain</div> <div>Aliases: F-008   References: official-docs/blue-pages/individual/algorithms/BP-ALG-008_Prediction-gain.pdf   Ceiling: REFERENCE_ONLY</div>     |
| <div>BP-ALG-009 [BLUE_PAGE]</div> <div>Covariance update</div> <div>Aliases: F-009   References: official-docs/blue-pages/individual/algorithms/BP-ALG-009_Covariance-update.pdf   Ceiling: REFERENCE_ONLY</div> |
| <div>BP-ALG-010 [BLUE_PAGE]</div> <div>Shadow depth</div> <div>Aliases: F-010   References: official-docs/blue-pages/individual/algorithms/BP-ALG-010_Shadow-depth.pdf   Ceiling: REFERENCE_ONLY</div>           |

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| <div>BP-ALG-011 [BLUE_PAGE]</div> <div>Shadow growth rate</div> <div>Aliases: F-011   References: official-docs/blue-pages/individual/algorithms/BP-ALG-011_Shadow-growth-rate.pdf   Ceiling: REFERENCE_ONLY</div>                                                  |
| <div>BP-ALG-012 [BLUE_PAGE]</div> <div>Front-end allocation / Front-end reserve</div> <div>Aliases: F-012, F-013   References: official-docs/blue-pages/individual/algorithms/BP-ALG-012_Front-end-allocation-Front-end-reserve.pdf   Ceiling: REFERENCE_ONLY</div> |
| <div>BP-ALG-013 [BLUE_PAGE]</div> <div>Bounded allocation update</div> <div>Aliases: F-014   References: official-docs/blue-pages/individual/algorithms/BP-ALG-013_Bounded-allocation-update.pdf   Ceiling: REFERENCE_ONLY</div>                                    |
| <div>BP-ALG-014 [BLUE_PAGE]</div> <div>Request memory</div> <div>Aliases: F-015   References: official-docs/blue-pages/individual/algorithms/BP-ALG-014_Request-memory.pdf   Ceiling: REFERENCE_ONLY</div>                                                          |
| <div>BP-ALG-015 [BLUE_PAGE]</div> <div>Memory preallocation</div> <div>Aliases: F-016   References: official-docs/blue-pages/individual/algorithms/BP-ALG-015_Memory-preallocation.pdf   Ceiling: REFERENCE_ONLY</div>                                              |
| <div>BP-ALG-016 [BLUE_PAGE]</div> <div>Hard flush</div> <div>Aliases: F-017   References: official-docs/blue-pages/individual/algorithms/BP-ALG-016_Hard-flush.pdf   Ceiling: REFERENCE_ONLY</div>                                                                  |
| <div>BP-ALG-017 [BLUE_PAGE]</div> <div>Charge balance</div> <div>Aliases: F-018   References: official-docs/blue-pages/individual/algorithms/BP-ALG-017_Charge-balance.pdf   Ceiling: REFERENCE_ONLY</div>                                                          |
| <div>BP-ALG-018 [BLUE_PAGE]</div> <div>Capacitor energy</div> <div>Aliases: F-019   References: official-docs/blue-pages/individual/algorithms/BP-ALG-018_Capacitor-energy.pdf   Ceiling: REFERENCE_ONLY</div>                                                      |

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BP-ALG-019 [BLUE\_PAGE]

General stored energy  
Aliases: F-020 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-019\_General-stored-energy.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-020 [BLUE\_PAGE]

Energy balance  
Aliases: F-021 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-020\_Energy-balance.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-021 [BLUE\_PAGE]

Mass balance / EVE screen balance  
Aliases: F-022, F-023 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-021\_Mass-balance-EVE-screen-balance.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-022 [BLUE\_PAGE]

EVE evaporation  
Aliases: F-024 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-022\_EVE-evaporation.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-023 [BLUE\_PAGE]

Upward force  
Aliases: F-025 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-023\_Upward-force.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-024 [BLUE\_PAGE]

Coordinate mapping  
Aliases: F-026 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-024\_Coordinate-mapping.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-025 [BLUE\_PAGE]

Sister physical umbrella count  
Aliases: F-027 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-025\_Sister-physical-umbrella-count.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-026 [BLUE\_PAGE]

Byte balance  
Aliases: F-028 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-026\_Byte-balance.pdf | Ceiling: REFERENCE\_ONLY

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| <div>BP-ALG-027 [BLUE_PAGE]</div> <div>Residual consequence</div> <div>Aliases: F-029   References: official-docs/blue-pages/individual/algorithms/BP-ALG-027_Residual-consequence.pdf   Ceiling: REFERENCE_ONLY</div>       |
| <div>BP-ALG-028 [BLUE_PAGE]</div> <div>Protected liquidity</div> <div>Aliases: F-031   References: official-docs/blue-pages/individual/algorithms/BP-ALG-028_Protected-liquidity.pdf   Ceiling: REFERENCE_ONLY</div>         |
| <div>BP-ALG-029 [BLUE_PAGE]</div> <div>Investable surplus</div> <div>Aliases: F-029   References: official-docs/blue-pages/individual/algorithms/BP-ALG-029_Investable-surplus.pdf   Ceiling: REFERENCE_ONLY</div>           |
| <div>BP-ALG-030 [BLUE_PAGE]</div> <div>Risk-capital ceiling</div> <div>Aliases: F-032   References: official-docs/blue-pages/individual/algorithms/BP-ALG-030_Risk-capital-ceiling.pdf   Ceiling: REFERENCE_ONLY</div>       |
| <div>BP-ALG-031 [BLUE_PAGE]</div> <div>Portfolio concentration</div> <div>Aliases: F-033   References: official-docs/blue-pages/individual/algorithms/BP-ALG-031_Portfolio-concentration.pdf   Ceiling: REFERENCE_ONLY</div> |
| <div>BP-ALG-032 [BLUE_PAGE]</div> <div>Portfolio variance</div> <div>Aliases: F-034   References: official-docs/blue-pages/individual/algorithms/BP-ALG-032_Portfolio-variance.pdf   Ceiling: REFERENCE_ONLY</div>           |
| <div>BP-ALG-033 [BLUE_PAGE]</div> <div>Capital friction</div> <div>Aliases: F-035   References: official-docs/blue-pages/individual/algorithms/BP-ALG-033_Capital-friction.pdf   Ceiling: REFERENCE_ONLY</div>               |
| <div>BP-ALG-034 [BLUE_PAGE]</div> <div>Opportunity lower bound</div> <div>Aliases: F-036   References: official-docs/blue-pages/individual/algorithms/BP-ALG-034_Opportunity-lower-bound.pdf   Ceiling: REFERENCE_ONLY</div> |

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BP-ALG-035 [BLUE\_PAGE]

Abundance objective  
Aliases: F-037 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-035\_Abundance-objective.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-036 [BLUE\_PAGE]

SHIVAS eligible value  
Aliases: F-038 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-036\_SHIVAS-eligible-value.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-037 [BLUE\_PAGE]

SHIVAS ceiling  
Aliases: F-039 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-037\_SHIVAS-ceiling.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-038 [BLUE\_PAGE]

MK state model  
Aliases: F-040 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-038\_MK-state-model.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-039 [BLUE\_PAGE]

Dimensional integrity  
Aliases: F-041 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-039\_Dimensional-integrity.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-040 [BLUE\_PAGE]

Conservation residual  
Aliases: F-042 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-040\_Conservation-residual.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-041 [BLUE\_PAGE]

Pearl simulation ellipsoid volume  
Aliases: F-043 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-041\_Pearl-simulation-ellipsoid-volume.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-042 [BLUE\_PAGE]

Pearl simulation surface-area approximation  
Aliases: F-044 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-042\_Pearl-simulation-surface-area-approximation.pdf | Ceiling: REFERENCE\_ONLY

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BP-ALG-043 [BLUE\_PAGE]

Pearl simulation exposure ratio  
Aliases: F-046 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-043\_Pearl-simulation-exposure-ratio.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-044 [BLUE\_PAGE]

Pearl simulation capacity slack  
Aliases: F-046 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-044\_Pearl-simulation-capacity-slack.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-045 [BLUE\_PAGE]

Pearl simulation saturation ratio  
Aliases: F-047 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-045\_Pearl-simulation-saturation-ratio.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-046 [BLUE\_PAGE]

Pearl simulation object count  
Aliases: F-048 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-046\_Pearl-simulation-object-count.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-047 [BLUE\_PAGE]

Pearl simulation accounting balance  
Aliases: F-049 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-047\_Pearl-simulation-accounting-balance.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-048 [BLUE\_PAGE]

Pearl simulated transfer opportunity  
Aliases: F-050 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-048\_Pearl-simulated-transfer-opportunity.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-049 [BLUE\_PAGE]

Pearl simulated regeneration vector  
Aliases: F-051 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-049\_Pearl-simulated-regeneration-vector.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-050 [BLUE\_PAGE]

Pearl acoustic simulation wavelength  
Aliases: F-052 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-050\_Pearl-acoustic-simulation-wavelength.pdf | Ceiling: REFERENCE\_ONLY

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| <div>BP-ALG-051 [BLUE_PAGE]</div> <div>Pearl acoustic simulation intensity</div> <div>Aliases: F-053   References: official-docs/blue-pages/individual/algorithms/BP-ALG-051_Pearl-acoustic-simulation-intensity.pdf   Ceiling: REFERENCE_ONLY</div>                                                                                                  |
| <div>BP-ALG-052 [BLUE_PAGE]</div> <div>Pearl acoustic simulation energy</div> <div>Aliases: F-054   References: official-docs/blue-pages/individual/algorithms/BP-ALG-052_Pearl-acoustic-simulation-energy.pdf   Ceiling: REFERENCE_ONLY</div>                                                                                                        |
| <div>BP-ALG-053 [BLUE_PAGE]</div> <div>Pearl acoustic simulation observability gate</div> <div>Aliases: F-055   References: official-docs/blue-pages/individual/algorithms/BP-ALG-053_Pearl-acoustic-simulation-observability-gate.pdf   Ceiling: REFERENCE_ONLY</div>                                                                                |
| <div>BP-ALG-054 [BLUE_PAGE]</div> <div>Pearl acoustic simulation signal-to-noise</div> <div>Aliases: F-056   References: official-docs/blue-pages/individual/algorithms/BP-ALG-054_Pearl-acoustic-simulation-signal-to-noise.pdf   Ceiling: REFERENCE_ONLY</div>                                                                                      |
| <div>BP-ALG-055 [BLUE_PAGE]</div> <div>Pearl acoustic simulation transfer function</div> <div>Aliases: F-057   References: official-docs/blue-pages/individual/algorithms/BP-ALG-055_Pearl-acoustic-simulation-transfer-function.pdf   Ceiling: REFERENCE_ONLY</div>                                                                                  |
| <div>BP-ALG-056 [BLUE_PAGE]</div> <div>Pearl acoustic simulation setpoint / Bounded Pearl acoustic simulation adjustment</div> <div>Aliases: F-058, F-059   References: official-docs/blue-pages/individual/algorithms/BP-ALG-056_Pearl-acoustic-simulation-setpoint-Bounded-Pearl-acoustic-simulation-adjustment.pdf   Ceiling: REFERENCE_ONLY</div> |
| <div>BP-ALG-057 [BLUE_PAGE]</div> <div>Pearl simulation registry reconciliation</div> <div>Aliases: F-060   References: official-docs/blue-pages/individual/algorithms/BP-ALG-057_Pearl-simulation-registry-reconciliation.pdf   Ceiling: REFERENCE_ONLY</div>                                                                                        |
| <div>BP-ALG-058 [BLUE_PAGE]</div> <div><div>Bangel</div> Sheet cell state</div> <div>Aliases: F-061   References: official-docs/blue-pages/individual/algorithms/BP-ALG-058_Bangel-Sheet-cell-state.pdf   Ceiling: REFERENCE_ONLY</div>                                                                                                               |

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| <div>BP-ALG-060 [BLUE_PAGE]</div> <div>Incremental recompute cost</div> <div>Aliases: F-062   References: official-docs/blue-pages/individual/algorithms/BP-ALG-060_Incremental-recompute-cost.pdf   Ceiling: REFERENCE_ONLY</div>                     |
| <div>BP-ALG-061 [BLUE_PAGE]</div> <div>Concurrent edit arrival</div> <div>Aliases: F-064   References: official-docs/blue-pages/individual/algorithms/BP-ALG-061_Concurrent-edit-arrival.pdf   Ceiling: REFERENCE_ONLY</div>                           |
| <div>BP-ALG-062 [BLUE_PAGE]</div> <div>Spreadsheet service utilization</div> <div>Aliases: F-065   References: official-docs/blue-pages/individual/algorithms/BP-ALG-062_Spreadsheet-service-utilization.pdf   Ceiling: REFERENCE_ONLY</div>           |
| <div>BP-ALG-063 [BLUE_PAGE]</div> <div>Spreadsheet worker requirement</div> <div>Aliases: F-066   References: official-docs/blue-pages/individual/algorithms/BP-ALG-063_Spreadsheet-worker-requirement.pdf   Ceiling: REFERENCE_ONLY</div>             |
| <div>BP-ALG-064 [BLUE_PAGE]</div> <div>Recalculation latency</div> <div>Aliases: F-067   References: official-docs/blue-pages/individual/algorithms/BP-ALG-064_Recalculation-latency.pdf   Ceiling: REFERENCE_ONLY</div>                               |
| <div>BP-ALG-065 [BLUE_PAGE]</div> <div>Spreadsheet data cost</div> <div>Aliases: F-068   References: official-docs/blue-pages/individual/algorithms/BP-ALG-065_Spreadsheet-data-cost.pdf   Ceiling: REFERENCE_ONLY</div>                               |
| <div>BP-ALG-066 [BLUE_PAGE]</div> <div>Pearl simulation partition objective</div> <div>Aliases: F-069   References: official-docs/blue-pages/individual/algorithms/BP-ALG-066_Pearl-simulation-partition-objective.pdf   Ceiling: REFERENCE_ONLY</div> |

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BP-ALG-067 [BLUE\_PAGE]

Sheet revision root  
Aliases: F-070 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-067\_Sheet-revision-root.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-068 [BLUE\_PAGE]

Audit-particle completeness  
Aliases: F-071 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-068\_Audit-particle-completeness.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-069 [BLUE\_PAGE]

Iterative recalculation stability  
Aliases: F-072 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-069\_Iterative-recalculation-stability.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-070 [BLUE\_PAGE]

Revision conflict gate  
Aliases: F-073 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-070\_Revision-conflict-gate.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-071 [BLUE\_PAGE]

Freshness age  
Aliases: F-074 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-071\_Freshness-age.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-072 [BLUE\_PAGE]

Staleness gate  
Aliases: F-075 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-072\_Staleness-gate.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-073 [BLUE\_PAGE]

Data-performance correlation  
Aliases: F-076 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-073\_Data-performance-correlation.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-074 [BLUE\_PAGE]

Silo unification gate  
Aliases: F-077 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-074\_Silo-unification-gate.pdf | Ceiling: REFERENCE\_ONLY

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| <b>BP-ALG-075 [BLUE_PAGE]</b><br>Formula verification residual<br><i>Aliases: F-078   References: official-docs/blue-pages/individual/algorithms/BP-ALG-075_Formula-verification-residual.pdf   Ceiling: REFERENCE_ONLY</i>                            |
| <b>BP-ALG-076 [BLUE_PAGE]</b><br>Operational intake completeness<br><i>Aliases: F-079   References: official-docs/blue-pages/individual/algorithms/BP-ALG-076_Operational-intake-completeness.pdf   Ceiling: REFERENCE_ONLY</i>                        |
| <b>BP-ALG-077 [BLUE_PAGE]</b><br>Spreadsheet capacity gate<br><i>Aliases: F-080   References: official-docs/blue-pages/individual/algorithms/BP-ALG-077_Spreadsheet-capacity-gate.pdf   Ceiling: REFERENCE_ONLY</i>                                    |
| <b>BP-ALG-078 [BLUE_PAGE]</b><br>First-noise rectangle height<br><i>Aliases: F-081   References: official-docs/blue-pages/individual/algorithms/BP-ALG-078_First-noise-rectangle-height.pdf   Ceiling: REFERENCE_ONLY</i>                              |
| <b>BP-ALG-079 [BLUE_PAGE]</b><br>Reference gas density<br><i>Aliases: F-082   References: official-docs/blue-pages/individual/algorithms/BP-ALG-079_Reference-gas-density.pdf   Ceiling: REFERENCE_ONLY</i>                                            |
| <b>BP-ALG-080 [BLUE_PAGE]</b><br>24 mg reference volume<br><i>Aliases: F-083   References: official-docs/blue-pages/individual/algorithms/BP-ALG-080_24-mg-reference-volume.pdf   Ceiling: REFERENCE_ONLY</i>                                          |
| <b>BP-ALG-081 [BLUE_PAGE]</b><br>Rectangle depth<br><i>Aliases: F-084   References: official-docs/blue-pages/individual/algorithms/BP-ALG-081_Rectangle-depth.pdf   Ceiling: REFERENCE_ONLY</i>                                                        |
| <b>BP-ALG-082 [BLUE_PAGE]</b><br>Cone height ratio / Cone top-width ratio<br><i>Aliases: F-085, F-086   References: official-docs/blue-pages/individual/algorithms/BP-ALG-082_Cone-height-ratio-Cone-top-width-ratio.pdf   Ceiling: REFERENCE_ONLY</i> |

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| <b>BP-ALG-083 [BLUE_PAGE]</b>                                                                                                                                                              |
| Cone area by height<br><i>Aliases: F-087   References: official-docs/blue-pages/individual/algorithms/BP-ALG-083_Cone-area-by-height.pdf   Ceiling: REFERENCE_ONLY</i>                     |
| <b>BP-ALG-084 [BLUE_PAGE]</b>                                                                                                                                                              |
| Cone partial volume<br><i>Aliases: F-089   References: official-docs/blue-pages/individual/algorithms/BP-ALG-084_Cone-partial-volume.pdf   Ceiling: REFERENCE_ONLY</i>                     |
| <b>BP-ALG-085 [BLUE_PAGE]</b>                                                                                                                                                              |
| Full conical-frustum volume<br><i>Aliases: F-089   References: official-docs/blue-pages/individual/algorithms/BP-ALG-085_Full-conical-frustum-volume.pdf   Ceiling: REFERENCE_ONLY</i>     |
| <b>BP-ALG-086 [BLUE_PAGE]</b>                                                                                                                                                              |
| Pearl cone-top anchor<br><i>Aliases: F-090   References: official-docs/blue-pages/individual/algorithms/BP-ALG-086_Pearl-cone-top-anchor.pdf   Ceiling: REFERENCE_ONLY</i>                 |
| <b>BP-ALG-087 [BLUE_PAGE]</b>                                                                                                                                                              |
| Observed gas mass<br><i>Aliases: F-091   References: official-docs/blue-pages/individual/algorithms/BP-ALG-087_Observed-gas-mass.pdf   Ceiling: REFERENCE_ONLY</i>                         |
| <b>BP-ALG-088 [BLUE_PAGE]</b>                                                                                                                                                              |
| Gas mass-flow from height<br><i>Aliases: F-092   References: official-docs/blue-pages/individual/algorithms/BP-ALG-088_Gas-mass-flow-from-height.pdf   Ceiling: REFERENCE_ONLY</i>         |
| <b>BP-ALG-089 [BLUE_PAGE]</b>                                                                                                                                                              |
| Observed gas-height predictor<br><i>Aliases: F-093   References: official-docs/blue-pages/individual/algorithms/BP-ALG-089_Observed-gas-height-predictor.pdf   Ceiling: REFERENCE_ONLY</i> |
| <b>BP-ALG-090 [BLUE_PAGE]</b>                                                                                                                                                              |
| Gas net-force balance<br><i>Aliases: F-094   References: official-docs/blue-pages/individual/algorithms/BP-ALG-090_Gas-net-force-balance.pdf   Ceiling: REFERENCE_ONLY</i>                 |

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| <b>BP-ALG-091 [BLUE_PAGE]</b><br>Buoyancy force / Drag force<br><i>Aliases: F-095, F-096   References: official-docs/blue-pages/individual/algorithms/BP-ALG-091_Buoyancy-force-Drag-force.pdf   Ceiling: REFERENCE_ONLY</i>            |
| <b>BP-ALG-092 [BLUE_PAGE]</b><br>Flow continuity<br><i>Aliases: F-097   References: official-docs/blue-pages/individual/algorithms/BP-ALG-092_Flow-continuity.pdf   Ceiling: REFERENCE_ONLY</i>                                         |
| <b>BP-ALG-093 [BLUE_PAGE]</b><br>Residual reservoir capacity<br><i>Aliases: F-098   References: official-docs/blue-pages/individual/algorithms/BP-ALG-093_Residual-reservoir-capacity.pdf   Ceiling: REFERENCE_ONLY</i>                 |
| <b>BP-ALG-094 [BLUE_PAGE]</b><br>Umbrella/EVE/reservoir balance<br><i>Aliases: F-099   References: official-docs/blue-pages/individual/algorithms/BP-ALG-094_UmbrellaEVEreservoir-balance.pdf   Ceiling: REFERENCE_ONLY</i>             |
| <b>BP-ALG-095 [BLUE_PAGE]</b><br>Containment modification predicate<br><i>Aliases: F-100   References: official-docs/blue-pages/individual/algorithms/BP-ALG-095_Containment-modification-predicate.pdf   Ceiling: REFERENCE_ONLY</i>   |
| <b>BP-ALG-096 [BLUE_PAGE]</b><br>Rear outlet elevation<br><i>Aliases: F-101   References: official-docs/blue-pages/individual/algorithms/BP-ALG-096_Rear-outlet-elevation.pdf   Ceiling: REFERENCE_ONLY</i>                             |
| <b>BP-ALG-097 [BLUE_PAGE]</b><br>Pearl simulation exclusion radius<br><i>Aliases: F-102   References: official-docs/blue-pages/individual/algorithms/BP-ALG-097_Pearl-simulation-exclusion-radius.pdf   Ceiling: REFERENCE_ONLY</i>     |
| <b>BP-ALG-098 [BLUE_PAGE]</b><br>Outward-tangential outlet direction<br><i>Aliases: F-103   References: official-docs/blue-pages/individual/algorithms/BP-ALG-098_Outward-tangential-outlet-direction.pdf   Ceiling: REFERENCE_ONLY</i> |

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| <div>BP-ALG-099 [BLUE_PAGE]</div> <div>Outside-circle outlet path</div> <div>Aliases: F-104   References: official-docs/blue-pages/individual/algorithms/BP-ALG-099_Outside-circle-outlet-path.pdf   Ceiling: REFERENCE_ONLY</div>                 |
| <div>BP-ALG-100 [BLUE_PAGE]</div> <div>Reservoir volume balance</div> <div>Aliases: F-105   References: official-docs/blue-pages/individual/algorithms/BP-ALG-100_Reservoir-volume-balance.pdf   Ceiling: REFERENCE_ONLY</div>                     |
| <div>BP-ALG-101 [BLUE_PAGE]</div> <div>Typed reservoir quantity balance</div> <div>Aliases: F-106   References: official-docs/blue-pages/individual/algorithms/BP-ALG-101_Typed-reservoir-quantity-balance.pdf   Ceiling: REFERENCE_ONLY</div>     |
| <div>BP-ALG-102 [BLUE_PAGE]</div> <div>Required buffer volume</div> <div>Aliases: F-107   References: official-docs/blue-pages/individual/algorithms/BP-ALG-102_Required-buffer-volume.pdf   Ceiling: REFERENCE_ONLY</div>                         |
| <div>BP-ALG-103 [BLUE_PAGE]</div> <div>Outlet area lower bound</div> <div>Aliases: F-108   References: official-docs/blue-pages/individual/algorithms/BP-ALG-103_Outlet-area-lower-bound.pdf   Ceiling: REFERENCE_ONLY</div>                       |
| <div>BP-ALG-104 [BLUE_PAGE]</div> <div>Circular outlet radius lower bound</div> <div>Aliases: F-109   References: official-docs/blue-pages/individual/algorithms/BP-ALG-104_Circular-outlet-radius-lower-bound.pdf   Ceiling: REFERENCE_ONLY</div> |
| <div>BP-ALG-105 [BLUE_PAGE]</div> <div>Bounded drip impulse</div> <div>Aliases: F-110   References: official-docs/blue-pages/individual/algorithms/BP-ALG-105_Bounded-drip-impulse.pdf   Ceiling: REFERENCE_ONLY</div>                             |
| <div>BP-ALG-106 [BLUE_PAGE]</div> <div>Small-wave energy reference</div> <div>Aliases: F-111   References: official-docs/blue-pages/individual/algorithms/BP-ALG-106_Small-wave-energy-reference.pdf   Ceiling: REFERENCE_ONLY</div>               |

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| <div>BP-ALG-108 [BLUE_PAGE]</div> <div>Circular return-port area</div> <div>Aliases: F-114   References: official-docs/blue-pages/individual/algorithms/BP-ALG-108_Circular-return-port-area.pdf   Ceiling: REFERENCE_ONLY</div>                       |
| <div>BP-ALG-109 [BLUE_PAGE]</div> <div>Inward-tangential reentry components</div> <div>Aliases: F-113   References: official-docs/blue-pages/individual/algorithms/BP-ALG-109_Inward-tangential-reentry-components.pdf   Ceiling: REFERENCE_ONLY</div> |
| <div>BP-ALG-110 [BLUE_PAGE]</div> <div>Spiral compatibility ratio</div> <div>Aliases: F-115   References: official-docs/blue-pages/individual/algorithms/BP-ALG-110_Spiral-compatibility-ratio.pdf   Ceiling: REFERENCE_ONLY</div>                     |
| <div>BP-ALG-111 [BLUE_PAGE]</div> <div>Return continuity</div> <div>Aliases: F-116   References: official-docs/blue-pages/individual/algorithms/BP-ALG-111_Return-continuity.pdf   Ceiling: REFERENCE_ONLY</div>                                       |
| <div>BP-ALG-112 [BLUE_PAGE]</div> <div>Relative-frame velocity</div> <div>Aliases: F-117   References: official-docs/blue-pages/individual/algorithms/BP-ALG-112_Relative-frame-velocity.pdf   Ceiling: REFERENCE_ONLY</div>                           |
| <div>BP-ALG-113 [BLUE_PAGE]</div> <div>Frictional dissipation</div> <div>Aliases: F-118   References: official-docs/blue-pages/individual/algorithms/BP-ALG-113_Frictional-dissipation.pdf   Ceiling: REFERENCE_ONLY</div>                             |
| <div>BP-ALG-114 [BLUE_PAGE]</div> <div>Recoverable friction-energy bound</div> <div>Aliases: F-119   References: official-docs/blue-pages/individual/algorithms/BP-ALG-114_Recoverable-friction-energy-bound.pdf   Ceiling: REFERENCE_ONLY</div>       |

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| <div>BP-ALG-116 [BLUE_PAGE]</div> <div>Re-entry swirl ratio</div> <div>Aliases: F-122   References: official-docs/blue-pages/individual/algorithms/BP-ALG-116_Re-entry-swirl-ratio.pdf   Ceiling: REFERENCE_ONLY</div>                             |
| <div>BP-ALG-117 [BLUE_PAGE]</div> <div>Re-entry processing cycle</div> <div>Aliases: F-122   References: official-docs/blue-pages/individual/algorithms/BP-ALG-117_Re-entry-processing-cycle.pdf   Ceiling: REFERENCE_ONLY</div>                   |
| <div>BP-ALG-118 [BLUE_PAGE]</div> <div>Perspective transform residual</div> <div>Aliases: F-123   References: official-docs/blue-pages/individual/algorithms/BP-ALG-118_Perspective-transform-residual.pdf   Ceiling: REFERENCE_ONLY</div>         |
| <div>BP-ALG-119 [BLUE_PAGE]</div> <div>Physical pressure-flow dissipation</div> <div>Aliases: F-124   References: official-docs/blue-pages/individual/algorithms/BP-ALG-119_Physical-pressure-flow-dissipation.pdf   Ceiling: REFERENCE_ONLY</div> |
| <div>BP-ALG-120 [BLUE_PAGE]</div> <div>Information friction</div> <div>Aliases: F-125   References: official-docs/blue-pages/individual/algorithms/BP-ALG-120_Information-friction.pdf   Ceiling: REFERENCE_ONLY</div>                             |
| <div>BP-ALG-121 [BLUE_PAGE]</div> <div>Rotational setpoint damping</div> <div>Aliases: F-126   References: official-docs/blue-pages/individual/algorithms/BP-ALG-121_Rotational-setpoint-damping.pdf   Ceiling: REFERENCE_ONLY</div>               |
| <div>BP-ALG-122 [BLUE_PAGE]</div> <div>Rotational step cap</div> <div>Aliases: F-127   References: official-docs/blue-pages/individual/algorithms/BP-ALG-122_Rotational-step-cap.pdf   Ceiling: REFERENCE_ONLY</div>                               |

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| <div>BP-ALG-123 [BLUE_PAGE]</div> <div>Outlet transfer conservation</div> <div>Aliases: F-128   References: official-docs/blue-pages/individual/algorithms/BP-ALG-123_Outlet-transfer-conservation.pdf   Ceiling: REFERENCE_ONLY</div>                                                        |
| <div>BP-ALG-124 [BLUE_PAGE]</div> <div>Re-entry recalculation vector</div> <div>Aliases: F-129   References: official-docs/blue-pages/individual/algorithms/BP-ALG-124_Re-entry-recalculation-vector.pdf   Ceiling: REFERENCE_ONLY</div>                                                      |
| <div>BP-ALG-125 [BLUE_PAGE]</div> <div>Re-entry admissibility predicate</div> <div>Aliases: F-130   References: official-docs/blue-pages/individual/algorithms/BP-ALG-125_Re-entry-admissibility-predicate.pdf   Ceiling: REFERENCE_ONLY</div>                                                |
| <div>BP-ALG-126 [BLUE_PAGE]</div> <div>Uncertainty-aware Pearl reference clearance</div> <div>Aliases: F-131   References: official-docs/blue-pages/individual/algorithms/BP-ALG-126_Uncertainty-aware-Pearl-reference-clearance.pdf   Ceiling: REFERENCE_ONLY</div>                          |
| <div>BP-ALG-127 [BLUE_PAGE]</div> <div>Outward angular-gap predicate</div> <div>Aliases: F-132   References: official-docs/blue-pages/individual/algorithms/BP-ALG-127_Outward-angular-gap-predicate.pdf   Ceiling: REFERENCE_ONLY</div>                                                      |
| <div>BP-ALG-128 [BLUE_PAGE]</div> <div>Available outlet pressure</div> <div>Aliases: F-133   References: official-docs/blue-pages/individual/algorithms/BP-ALG-128_Available-outlet-pressure.pdf   Ceiling: REFERENCE_ONLY</div>                                                              |
| <div>BP-ALG-129 [BLUE_PAGE]</div> <div>Outlet pressure margin</div> <div>Aliases: F-134   References: official-docs/blue-pages/individual/algorithms/BP-ALG-129_Outlet-pressure-margin.pdf   Ceiling: REFERENCE_ONLY</div>                                                                    |
| <div>BP-ALG-130 [BLUE_PAGE]</div> <div>Minimum outlet grade / Selected positive outlet grade</div> <div>Aliases: F-135, F-136   References: official-docs/blue-pages/individual/algorithms/BP-ALG-130_Minimum-outlet-grade-Selected-positive-outlet-grade.pdf   Ceiling: REFERENCE_ONLY</div> |

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| <div>BP-ALG-131 [BLUE_PAGE]</div> <div>Incompressible reference outlet flow</div> <div>Aliases: F-137   References: official-docs/blue-pages/individual/algorithms/BP-ALG-131_Incompressible-reference-outlet-flow.pdf   Ceiling: REFERENCE_ONLY</div>                                                        |
| <div>BP-ALG-132 [BLUE_PAGE]</div> <div>Mean outlet velocity</div> <div>Aliases: F-138   References: official-docs/blue-pages/individual/algorithms/BP-ALG-132_Mean-outlet-velocity.pdf   Ceiling: REFERENCE_ONLY</div>                                                                                        |
| <div>BP-ALG-133 [BLUE_PAGE]</div> <div>Weber number reference</div> <div>Aliases: F-139   References: official-docs/blue-pages/individual/algorithms/BP-ALG-133_Weber-number-reference.pdf   Ceiling: REFERENCE_ONLY</div>                                                                                    |
| <div>BP-ALG-134 [BLUE_PAGE]</div> <div>Wave amplitude ratio</div> <div>Aliases: F-140   References: official-docs/blue-pages/individual/algorithms/BP-ALG-134_Wave-amplitude-ratio.pdf   Ceiling: REFERENCE_ONLY</div>                                                                                        |
| <div>BP-ALG-135 [BLUE_PAGE]</div> <div>Small-wave observation gate</div> <div>Aliases: F-141   References: official-docs/blue-pages/individual/algorithms/BP-ALG-135_Small-wave-observation-gate.pdf   Ceiling: REFERENCE_ONLY</div>                                                                          |
| <div>BP-ALG-136 [BLUE_PAGE]</div> <div>Discrete reservoir inventory</div> <div>Aliases: F-142   References: official-docs/blue-pages/individual/algorithms/BP-ALG-136_Discrete-reservoir-inventory.pdf   Ceiling: REFERENCE_ONLY</div>                                                                        |
| <div>BP-ALG-137 [BLUE_PAGE]</div> <div>Vector reservoir headroom</div> <div>Aliases: F-143   References: official-docs/blue-pages/individual/algorithms/BP-ALG-137_Vector-reservoir-headroom.pdf   Ceiling: REFERENCE_ONLY</div>                                                                              |
| <div>BP-ALG-138 [BLUE_PAGE]</div> <div>Vector reservoir admission / No same-cycle feedback predicate</div> <div>Aliases: F-144, F-145   References: official-docs/blue-pages/individual/algorithms/BP-ALG-138_Vector-reservoir-admission-No-same-cycle-feedback-predicate.pdf   Ceiling: REFERENCE_ONLY</div> |

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- BP-ALG-139 [BLUE\_PAGE]

Solar/auxiliary/recovery input energy / Solar system energy conservation  
Aliases: F-146, F-147 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-139\_Solarauxiliaryrecovery-input-energy-Solar-system-energy-conservation.pdf | Ceiling: REFERENCE\_ONLY
- BP-ALG-140 [BLUE\_PAGE]

Instantaneous power balance / Conservative reserve margin  
Aliases: F-148, F-149 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-140\_Instantaneous-power-balance-Conservative-reserve-margin.pdf | Ceiling: REFERENCE\_ONLY
- BP-ALG-141 [BLUE\_PAGE]

Path efficiency / Bounded storage state update  
Aliases: F-150, F-151 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-141\_Path-efficiency-Bounded-storage-state-update.pdf | Ceiling: REFERENCE\_ONLY
- BP-ALG-142 [BLUE\_PAGE]

Thermal first-order update / Predicted bus voltage  
Aliases: F-152, F-153 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-142\_Thermal-first-order-update-Predicted-bus-voltage.pdf | Ceiling: REFERENCE\_ONLY
- BP-ALG-143 [BLUE\_PAGE]

Shared start/admission gate / Cross-profile transfer gate  
Aliases: F-154, F-155 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-143\_Shared-startadmission-gate-Cross-profile-transfer-gate.pdf | Ceiling: REFERENCE\_ONLY
- BP-ALG-144 [BLUE\_PAGE]

Solar uncertainty propagation / Solar evidence-state transition  
Aliases: F-156, F-157 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-144\_Solar-uncertainty-propagation-Solar-evidence-state-transition.pdf | Ceiling: REFERENCE\_ONLY
- BP-ALG-145 [BLUE\_PAGE]

Phone-profile solar energy / Workload-aware power demand  
Aliases: F-158, F-159 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-145\_Phone-profile-solar-energy-Workload-aware-power-demand.pdf | Ceiling: REFERENCE\_ONLY
- BP-ALG-146 [BLUE\_PAGE]

Phone reserve duration / Phone energy deficit  
Aliases: F-160, F-161 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-146\_Phone-reserve-duration-Phone-energy-deficit.pdf | Ceiling: REFERENCE\_ONLY

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| <div>BP-ALG-147 [BLUE_PAGE]</div> <div>Environment-dependent leakage</div> <div>Aliases: F-162   References: official-docs/blue-pages/individual/algorithms/BP-ALG-147_Environment-dependent-leakage.pdf   Ceiling: REFERENCE_ONLY</div>                                                                          |
| <div>BP-ALG-148 [BLUE_PAGE]</div> <div>Wake energy accounting / Phone thermal margin</div> <div>Aliases: F-163, F-164   References: official-docs/blue-pages/individual/algorithms/BP-ALG-148_Wake-energy-accounting-Phone-thermal-margin.pdf   Ceiling: REFERENCE_ONLY</div>                                     |
| <div>BP-ALG-149 [BLUE_PAGE]</div> <div>Useful work per delivered energy / Data-performance correlation</div> <div>Aliases: F-165, F-166   References: official-docs/blue-pages/individual/algorithms/BP-ALG-149_Useful-work-per-delivered-energy-Data-performance-correlation.pdf   Ceiling: REFERENCE_ONLY</div> |
| <div>BP-ALG-150 [BLUE_PAGE]</div> <div>Workload allocation update / Semiconductor scale map</div> <div>Aliases: F-167, F-168   References: official-docs/blue-pages/individual/algorithms/BP-ALG-150_Workload-allocation-update-Semiconductor-scale-map.pdf   Ceiling: REFERENCE_ONLY</div>                       |
| <div>BP-ALG-151 [BLUE_PAGE]</div> <div>Phone-profile evidence completeness / Marine solar-array energy</div> <div>Aliases: F-169, F-170   References: official-docs/blue-pages/individual/algorithms/BP-ALG-151_Phone-profile-evidence-completeness-Marine-solar-array-energy.pdf   Ceiling: REFERENCE_ONLY</div> |
| <div>BP-ALG-152 [BLUE_PAGE]</div> <div>Marine propulsion/load power / Marine mission energy</div> <div>Aliases: F-171, F-172   References: official-docs/blue-pages/individual/algorithms/BP-ALG-152_Marine-propulsionload-power-Marine-mission-energy.pdf   Ceiling: REFERENCE_ONLY</div>                        |
| <div>BP-ALG-153 [BLUE_PAGE]</div> <div>Marine critical reserve duration / Marine DC bus balance</div> <div>Aliases: F-173, F-174   References: official-docs/blue-pages/individual/algorithms/BP-ALG-153_Marine-critical-reserve-duration-Marine-DC-bus-balance.pdf   Ceiling: REFERENCE_ONLY</div>               |
| <div>BP-ALG-154 [BLUE_PAGE]</div> <div>Precharge inrush reference</div> <div>Aliases: F-175   References: official-docs/blue-pages/individual/algorithms/BP-ALG-154_Precharge-inrush-reference.pdf   Ceiling: REFERENCE_ONLY</div>                                                                                |

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BP-ALG-155 [BLUE\_PAGE]

Wet/dry leakage ratio / Marine environment state vector  
Aliases: F-176, F-177 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-155\_Wetdry-leakage-ratio-Marine-environment-state-vector.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-156 [BLUE\_PAGE]

Vibration exposure / Recovered energy ceiling  
Aliases: F-178, F-179 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-156\_Vibration-exposure-Recovered-energy-ceiling.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-157 [BLUE\_PAGE]

Priority load shedding / Marine evidence and permit gate  
Aliases: F-180, F-181 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-157\_Priority-load-shedding-Marine-evidence-and-permit-gate.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-158 [BLUE\_PAGE]

Peaceful spacecraft solar energy / Avionics bus balance  
Aliases: F-182, F-183 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-158\_Peaceful-spacecraft-solar-energy-Avionics-bus-balance.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-159 [BLUE\_PAGE]

Emergency reserve duration / Spacecraft thermal balance  
Aliases: F-184, F-185 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-159\_Emergency-reserve-duration-Spacecraft-thermal-balance.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-160 [BLUE\_PAGE]

Space-profile battery margin / Authenticated startup state  
Aliases: F-186, F-187 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-160\_Space-profile-battery-margin-Authenticated-startup-state.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-161 [BLUE\_PAGE]

Fault isolation set / Redundant service availability  
Aliases: F-188, F-189 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-161\_Fault-isolation-set-Redundant-service-availability.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-162 [BLUE\_PAGE]

Propulsion-state coordination reference / High-energy emergency reserve  
Aliases: F-190, F-191 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-162\_Propulsion-state-coordination-reference-High-energy-emergency-reserve.pdf | Ceiling: REFERENCE\_ONLY

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- BP-ALG-163 [BLUE\_PAGE]

Non-weaponization gate / Rocket-profile evidence and permit gate  
Aliases: F-192, F-193 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-163\_Non-weaponization-gate-Rocket-profile-evidence-and-permit-gate.pdf | Ceiling: REFERENCE\_ONLY
- BP-ALG-164 [BLUE\_PAGE]

DRO founder lower marker / DRO alias conversion  
Aliases: F-196, F-197 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-164\_DRO-founder-lower-marker-DRO-alias-conversion.pdf | Ceiling: REFERENCE\_ONLY
- BP-ALG-165 [BLUE\_PAGE]

DRO conservative R threshold / DRO upper spherical reference  
Aliases: F-196, F-197 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-165\_DRO-conservative-R-threshold-DRO-upper-spherical-reference.pdf | Ceiling: REFERENCE\_ONLY
- BP-ALG-166 [BLUE\_PAGE]

DRO declared interval / DRO reference radius  
Aliases: F-198, F-199 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-166\_DRO-declared-interval-DRO-reference-radius.pdf | Ceiling: REFERENCE\_ONLY
- BP-ALG-167 [BLUE\_PAGE]

DRO spherical reference volume / DRO interval ratio  
Aliases: F-200, F-201 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-167\_DRO-spherical-reference-volume-DRO-interval-ratio.pdf | Ceiling: REFERENCE\_ONLY
- BP-ALG-168 [BLUE\_PAGE]

DRO quantity count / DRO remainder  
Aliases: F-202, F-203 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-168\_DRO-quantity-count-DRO-remainder.pdf | Ceiling: REFERENCE\_ONLY
- BP-ALG-169 [BLUE\_PAGE]

Pearl-node allocation count / DRO-Pearl handoff balance  
Aliases: F-204, F-205 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-169\_Pearl-node-allocation-count-DRO-Pearl-handoff-balance.pdf | Ceiling: REFERENCE\_ONLY
- BP-ALG-170 [BLUE\_PAGE]

DRO R-state gate  
Aliases: F-206 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-170\_DRO-R-state-gate.pdf | Ceiling: REFERENCE\_ONLY

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| <b>BP-ALG-171 [BLUE_PAGE]</b>                                                                                                                                                                                                              |
| DRO R1 gate / DRO R2 gate<br>Aliases: F-207, F-208   References: official-docs/blue-pages/individual/algorithms/BP-ALG-171_DRO-R1-gate-DRO-R2-gate.pdf   Ceiling: REFERENCE_ONLY                                                           |
| <b>BP-ALG-172 [BLUE_PAGE]</b>                                                                                                                                                                                                              |
| Optical wavelength / Photon energy<br>Aliases: F-209, F-210   References: official-docs/blue-pages/individual/algorithms/BP-ALG-172_Optical-wavelength-Photon-energy.pdf   Ceiling: REFERENCE_ONLY                                         |
| <b>BP-ALG-173 [BLUE_PAGE]</b>                                                                                                                                                                                                              |
| Photon count estimate / Optical coupling evidence<br>Aliases: F-211, F-212   References: official-docs/blue-pages/individual/algorithms/BP-ALG-173_Photon-count-estimate-Optical-coupling-evidence.pdf   Ceiling: REFERENCE_ONLY           |
| <b>BP-ALG-174 [BLUE_PAGE]</b>                                                                                                                                                                                                              |
| Optical admissibility / DRO collection rate<br>Aliases: F-213, F-214   References: official-docs/blue-pages/individual/algorithms/BP-ALG-174_Optical-admissibility-DRO-collection-rate.pdf   Ceiling: REFERENCE_ONLY                       |
| <b>BP-ALG-175 [BLUE_PAGE]</b>                                                                                                                                                                                                              |
| DRO scale uncertainty / DRO interval classification<br>Aliases: F-215, F-216   References: official-docs/blue-pages/individual/algorithms/BP-ALG-175_DRO-scale-uncertainty-DRO-interval-classification.pdf   Ceiling: REFERENCE_ONLY       |
| <b>BP-ALG-176 [BLUE_PAGE]</b>                                                                                                                                                                                                              |
| DRO capacity slack<br>Aliases: F-217   References: official-docs/blue-pages/individual/algorithms/BP-ALG-176_DRO-capacity-slack.pdf   Ceiling: REFERENCE_ONLY                                                                              |
| <b>BP-ALG-177 [BLUE_PAGE]</b>                                                                                                                                                                                                              |
| DRO overflow vector / DRO ledger balance<br>Aliases: F-218, F-219   References: official-docs/blue-pages/individual/algorithms/BP-ALG-177_DRO-overflow-vector-DRO-ledger-balance.pdf   Ceiling: REFERENCE_ONLY                             |
| <b>BP-ALG-178 [BLUE_PAGE]</b>                                                                                                                                                                                                              |
| DRO energy ledger / Available start energy lower bound<br>Aliases: F-220, F-221   References: official-docs/blue-pages/individual/algorithms/BP-ALG-178_DRO-energy-ledger-Available-start-energy-lower-bound.pdf   Ceiling: REFERENCE_ONLY |

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BP-ALG-179 [BLUE\_PAGE]

Start gate / Restart reserve  
Aliases: F-222, F-223 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-179\_Start-gate-Restart-reserve.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-180 [BLUE\_PAGE]

Solar contribution / Acoustic/noise contribution  
Aliases: F-224, F-225 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-180\_Solar-contribution-Acousticnoise-contribution.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-181 [BLUE\_PAGE]

Generic separation-work lower bound / Species availability  
Aliases: F-226, F-227 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-181\_Generic-separation-work-lower-bound-Species-availability.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-182 [BLUE\_PAGE]

Conversion efficiency / Controlled logical release  
Aliases: F-228, F-229 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-182\_Conversion-efficiency-Controlled-logical-release.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-183 [BLUE\_PAGE]

DRO thermal gate / Semiconductor DRO charge balance  
Aliases: F-230, F-231 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-183\_DRO-thermal-gate-Semiconductor-DRO-charge-balance.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-184 [BLUE\_PAGE]

Semiconductor Pearl-node memory / Semiconductor wake-reserve gate  
Aliases: F-232, F-233 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-184\_Semiconductor-Pearl-node-memory-Semiconductor-wake-reserve-gate.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-185 [BLUE\_PAGE]

Semiconductor profile isolation / Lecanto byte-source digest  
Aliases: F-234, F-235 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-185\_Semiconductor-profile-isolation-Lecanto-byte-source-digest.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-186 [BLUE\_PAGE]

Lecanto pixel residual / Lecanto spectral residual  
Aliases: F-236, F-237 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-186\_Lecanto-pixel-residual-Lecanto-spectral-residual.pdf | Ceiling: REFERENCE\_ONLY

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BP-ALG-187 [BLUE\_PAGE]

Lecanto provenance completeness / Lecanto intent hypothesis  
Aliases: F-238, F-239 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-187\_Lecanto-provenance-completeness-Lecanto-intent-hypothesis.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-188 [BLUE\_PAGE]

Lecanto transformation gate / Lecanto reject gate  
Aliases: F-240, F-241 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-188\_Lecanto-transformation-gate-Lecanto-reject-gate.pdf | Ceiling: REFERENCE\_ONLY

BP-ALG-189 [BLUE\_PAGE]

R8 command admissibility  
Aliases: F-242 | References: official-docs/blue-pages/individual/algorithms/BP-ALG-189\_R8-command-admissibility.pdf | Ceiling: REFERENCE\_ONLY

BP-FAM-001 [BLUE\_PAGE]

MJ - Family Manifestation  
Aliases: MJ | References: official-docs/blue-pages/individual/families/BP-FAM-001\_MJ.pdf | Ceiling: REFERENCE\_ONLY

BP-FAM-002 [BLUE\_PAGE]

Bangel - Family Manifestation  
Aliases: Bangel | References: official-docs/blue-pages/individual/families/BP-FAM-002\_Bangel.pdf | Ceiling: REFERENCE\_ONLY

BP-FAM-003 [BLUE\_PAGE]

Elsa - Family Manifestation  
Aliases: ELSA | References: official-docs/blue-pages/individual/families/BP-FAM-003\_Elsa.pdf | Ceiling: REFERENCE\_ONLY

BP-FAM-004 [BLUE\_PAGE]

JP - Family Manifestation  
Aliases: JP | References: official-docs/blue-pages/individual/families/BP-FAM-004\_JP.pdf | Ceiling: REFERENCE\_ONLY

BP-FAM-005 [BLUE\_PAGE]

Mika / MK - Family Manifestation  
Aliases: MK | References: official-docs/blue-pages/individual/families/BP-FAM-005\_Mika-MK.pdf | Ceiling: REFERENCE\_ONLY

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| <div>BP-FAM-006 [BLUE_PAGE]</div> <div>JO - Family Manifestation</div> <div>Aliases: JO   References: official-docs/blue-pages/individual/families/BP-FAM-006_JO.pdf   Ceiling: REFERENCE_ONLY</div>                      |
| <div>BP-FAM-007 [BLUE_PAGE]</div> <div>MJOS - Family Manifestation</div> <div>Aliases: MJOS   References: official-docs/blue-pages/individual/families/BP-FAM-007_MJOS.pdf   Ceiling: REFERENCE_ONLY</div>                |
| <div>BP-FAM-008 [BLUE_PAGE]</div> <div>Angels - Family Manifestation</div> <div>Aliases: ANGELS   References: official-docs/blue-pages/individual/families/BP-FAM-008_Angels.pdf   Ceiling: REFERENCE_ONLY</div>          |
| <div>BP-FAM-009 [BLUE_PAGE]</div> <div>Bellatrix - Family Manifestation</div> <div>Aliases: BELLATRIX   References: official-docs/blue-pages/individual/families/BP-FAM-009_Bellatrix.pdf   Ceiling: REFERENCE_ONLY</div> |
| <div>BP-FAM-010 [BLUE_PAGE]</div> <div>Sister - Family Manifestation</div> <div>Aliases: SISTER   References: official-docs/blue-pages/individual/families/BP-FAM-010_Sister.pdf   Ceiling: REFERENCE_ONLY</div>          |
| <div>BP-FAM-011 [BLUE_PAGE]</div> <div>EVE - Family Manifestation</div> <div>Aliases: EVE   References: official-docs/blue-pages/individual/families/BP-FAM-011_EVE.pdf   Ceiling: REFERENCE_ONLY</div>                   |
| <div>BP-FAM-012 [BLUE_PAGE]</div> <div>Mary / M3 - Family Manifestation</div> <div>Aliases: M3   References: official-docs/blue-pages/individual/families/BP-FAM-012_Mary-M3.pdf   Ceiling: REFERENCE_ONLY</div>          |
| <div>BP-FAM-013 [BLUE_PAGE]</div> <div>Mermaid - Family Manifestation</div> <div>Aliases: MERMAID   References: official-docs/blue-pages/individual/families/BP-FAM-013_Mermaid.pdf   Ceiling: REFERENCE_ONLY</div>       |

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| <b>BP-FAM-014 [BLUE_PAGE]</b><br>Shiva - Family Manifestation<br><i>Aliases: SHIVA   References: official-docs/blue-pages/individual/families/BP-FAM-014_Shiva.pdf   Ceiling: REFERENCE_ONLY</i>       |
| <b>BP-FAM-015 [BLUE_PAGE]</b><br>Shekina - Family Manifestation<br><i>Aliases: SHEKINA   References: official-docs/blue-pages/individual/families/BP-FAM-015_Shekina.pdf   Ceiling: REFERENCE_ONLY</i> |
| <b>BP-FAM-016 [BLUE_PAGE]</b><br>Belle - Family Manifestation<br><i>Aliases: BELLE   References: official-docs/blue-pages/individual/families/BP-FAM-016_Belle.pdf   Ceiling: REFERENCE_ONLY</i>       |
| <b>BP-FAM-017 [BLUE_PAGE]</b><br>Lecanto - Family Manifestation<br><i>Aliases: LECANTO   References: official-docs/blue-pages/individual/families/BP-FAM-017_Lecanto.pdf   Ceiling: REFERENCE_ONLY</i> |
| <b>BP-FAM-018 [BLUE_PAGE]</b><br>Moana - Family Manifestation<br><i>Aliases: MOANA   References: official-docs/blue-pages/individual/families/BP-FAM-018_Moana.pdf   Ceiling: REFERENCE_ONLY</i>       |
| <b>BP-FAM-019 [BLUE_PAGE]</b><br>Aviator - Family Manifestation<br><i>Aliases: AVIATOR   References: official-docs/blue-pages/individual/families/BP-FAM-019_Aviator.pdf   Ceiling: REFERENCE_ONLY</i> |
| <b>BP-FAM-020 [BLUE_PAGE]</b><br>CHI - Family Manifestation<br><i>Aliases: CHI   References: official-docs/blue-pages/individual/families/BP-FAM-020_CHI.pdf   Ceiling: REFERENCE_ONLY</i>             |
| <b>BP-FAM-021 [BLUE_PAGE]</b><br>WATER - Family Manifestation<br><i>Aliases: WATER   References: official-docs/blue-pages/individual/families/BP-FAM-021_WATER.pdf   Ceiling: REFERENCE_ONLY</i>       |

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| <div>BP-OBJ-001 [BLUE_PAGE]</div> <div>JP_CAPO - Governed Object</div> <div>Aliases: JP_CAPO   References: official-docs/blue-pages/individual/objects/BP-OBJ-001_JP_CAPO.pdf   Ceiling: REFERENCE_ONLY</div>                            |
| <div>BP-OBJ-002 [BLUE_PAGE]</div> <div>MK_PHYSICS_CAPO - Governed Object</div> <div>Aliases: MK_PHYSICS_CAPO   References: official-docs/blue-pages/individual/objects/BP-OBJ-002_MK_PHYSICS_CAPO.pdf   Ceiling: REFERENCE_ONLY</div>    |
| <div>BP-OBJ-003 [BLUE_PAGE]</div> <div>JO_PROOF_RECEIPT - Governed Object</div> <div>Aliases: JO_PROOF_RECEIPT   References: official-docs/blue-pages/individual/objects/BP-OBJ-003_JO_PROOF_RECEIPT.pdf   Ceiling: REFERENCE_ONLY</div> |
| <div>BP-OBJ-004 [BLUE_PAGE]</div> <div>MJ_PERMIT - Governed Object</div> <div>Aliases: MJ_PERMIT   References: official-docs/blue-pages/individual/objects/BP-OBJ-004_MJ_PERMIT.pdf   Ceiling: REFERENCE_ONLY</div>                      |
| <div>BP-OBJ-005 [BLUE_PAGE]</div> <div>EVE_OBSERVATION - Governed Object</div> <div>Aliases: EVE_OBSERVATION   References: official-docs/blue-pages/individual/objects/BP-OBJ-005_EVE_OBSERVATION.pdf   Ceiling: REFERENCE_ONLY</div>    |
| <div>BP-OBJ-006 [BLUE_PAGE]</div> <div>M3_ROUTE_RECEIPT - Governed Object</div> <div>Aliases: M3_ROUTE_RECEIPT   References: official-docs/blue-pages/individual/objects/BP-OBJ-006_M3_ROUTE_RECEIPT.pdf   Ceiling: REFERENCE_ONLY</div> |
| <div>BP-OBJ-007 [BLUE_PAGE]</div> <div>MERMAID_ACCOUNT - Governed Object</div> <div>Aliases: MERMAID_ACCOUNT   References: official-docs/blue-pages/individual/objects/BP-OBJ-007_MERMAID_ACCOUNT.pdf   Ceiling: REFERENCE_ONLY</div>    |
| <div>BP-OBJ-008 [BLUE_PAGE]</div> <div>SHIVA_SHELL - Governed Object</div> <div>Aliases: SHIVA_SHELL   References: official-docs/blue-pages/individual/objects/BP-OBJ-008_SHIVA_SHELL.pdf   Ceiling: REFERENCE_ONLY</div>                |

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| <div>BP-OBJ-009 [BLUE_PAGE]</div> <div>SHIVAS_INTERNAL_REFLECTION - Governed Object</div> <div>Aliases: SHIVAS_INTERNAL_REFLECTION   References: official-docs/blue-pages/individual/objects/BP-OBJ-009_SHIVAS_INTERNAL_REFLECTION.pdf   Ceiling: REFERENCE_ONLY</div> |
| <div>BP-OBJ-010 [BLUE_PAGE]</div> <div>CHI_VARIANCE_OBJECT - Governed Object</div> <div>Aliases: CHI_VARIANCE_OBJECT   References: official-docs/blue-pages/individual/objects/BP-OBJ-010_CHI_VARIANCE_OBJECT.pdf   Ceiling: REFERENCE_ONLY</div>                      |
| <div>BP-OBJ-011 [BLUE_PAGE]</div> <div>WATER_INTERVAL_STATE - Governed Object</div> <div>Aliases: WATER_INTERVAL_STATE   References: official-docs/blue-pages/individual/objects/BP-OBJ-011_WATER_INTERVAL_STATE.pdf   Ceiling: REFERENCE_ONLY</div>                   |
| <div>BP-OBJ-012 [BLUE_PAGE]</div> <div>PASSKEY_PUBLIC_RECEIPT - Governed Object</div> <div>Aliases: PASSKEY_PUBLIC_RECEIPT   References: official-docs/blue-pages/individual/objects/BP-OBJ-012_PASSKEY_PUBLIC_RECEIPT.pdf   Ceiling: REFERENCE_ONLY</div>             |
| <div>BP-OBJ-013 [BLUE_PAGE]</div> <div>PEARL_VARIANCE_CONTAINER - Governed Object</div> <div>Aliases: PEARL_VARIANCE_CONTAINER   References: official-docs/blue-pages/individual/objects/BP-OBJ-013_PEARL_VARIANCE_CONTAINER.pdf   Ceiling: REFERENCE_ONLY</div>       |
| <div>BP-OBJ-014 [BLUE_PAGE]</div> <div>PEARL_ALLOCATION_RECEIPT - Governed Object</div> <div>Aliases: PEARL_ALLOCATION_RECEIPT   References: official-docs/blue-pages/individual/objects/BP-OBJ-014_PEARL_ALLOCATION_RECEIPT.pdf   Ceiling: REFERENCE_ONLY</div>       |
| <div>BP-OBJ-015 [BLUE_PAGE]</div> <div>PEARL_ACOUSTIC_PROFILE - Governed Object</div> <div>Aliases: PEARL_ACOUSTIC_PROFILE   References: official-docs/blue-pages/individual/objects/BP-OBJ-015_PEARL_ACOUSTIC_PROFILE.pdf   Ceiling: REFERENCE_ONLY</div>             |
| <div>BP-OBJ-016 [BLUE_PAGE]</div> <div>PEARL_SYMPOSIUM_REGISTRY - Governed Object</div> <div>Aliases: PEARL_SYMPOSIUM_REGISTRY   References: official-docs/blue-pages/individual/objects/BP-OBJ-016_PEARL_SYMPOSIUM_REGISTRY.pdf   Ceiling: REFERENCE_ONLY</div>       |

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| <div>BP-OBJ-017 [BLUE_PAGE]</div> <div>Bangel SHEET - Governed Object</div> <div>Aliases: Bangel SHEET   References: official-docs/blue-pages/individual/objects/BP-OBJ-017_Bangel_SHEET.pdf   Ceiling: REFERENCE_ONLY</div>                                                                            |
| <div>BP-OBJ-018 [BLUE_PAGE]</div> <div>Bangel SHEET_CELL - Governed Object</div> <div>Aliases: Bangel SHEET_CELL   References: official-docs/blue-pages/individual/objects/BP-OBJ-018_Bangel_SHEET_CELL.pdf   Ceiling: REFERENCE_ONLY</div>                                                             |
| <div>BP-OBJ-019 [BLUE_PAGE]</div> <div>Bangel SHEET_REVISION - Governed Object</div> <div>Aliases: Bangel SHEET_REVISION   References: official-docs/blue-pages/individual/objects/BP-OBJ-019_Bangel_SHEET_REVISION.pdf   Ceiling: REFERENCE_ONLY</div>                                                 |
| <div>BP-OBJ-020 [BLUE_PAGE]</div> <div>Bangel SHEET_AUDIT_PARTICLE - Governed Object</div> <div>Aliases: Bangel SHEET_AUDIT_PARTICLE   References: official-docs/blue-pages/individual/objects/BP-OBJ-020_Bangel_SHEET_AUDIT_PARTICLE.pdf   Ceiling: REFERENCE_ONLY</div>                               |
| <div>BP-OBJ-021 [BLUE_PAGE]</div> <div>JPOSMJ_PRODUCT_ENVELOPE - Governed Object</div> <div>Aliases: JPOSMJ_PRODUCT_ENVELOPE   References: official-docs/blue-pages/individual/objects/BP-OBJ-021_JPOSMJ_PRODUCT_ENVELOPE.pdf   Ceiling: REFERENCE_ONLY</div>                                           |
| <div>BP-OBJ-022 [BLUE_PAGE]</div> <div>SISTER_PHYSICAL_CONTAINMENT_PROFILE - Governed Object</div> <div>Aliases: SISTER_PHYSICAL_CONTAINMENT_PROFILE   References: official-docs/blue-pages/individual/objects/BP-OBJ-022_SISTER_PHYSICAL_CONTAINMENT_PROFILE.pdf   Ceiling: REFERENCE_ONLY</div>       |
| <div>BP-OBJ-023 [BLUE_PAGE]</div> <div>STANDARD_CONTAINMENT_GEOMETRY_PROFILE - Governed Object</div> <div>Aliases: STANDARD_CONTAINMENT_GEOMETRY_PROFILE   References: official-docs/blue-pages/individual/objects/BP-OBJ-023_STANDARD_CONTAINMENT_GEOMETRY_PROFILE.pdf   Ceiling: REFERENCE_ONLY</div> |
| <div>BP-OBJ-024 [BLUE_PAGE]</div> <div>REFERENCE_GAS_PROFILE_H2 - Governed Object</div> <div>Aliases: REFERENCE_GAS_PROFILE_H2   References: official-docs/blue-pages/individual/objects/BP-OBJ-024_REFERENCE_GAS_PROFILE_H2.pdf   Ceiling: REFERENCE_ONLY</div>                                        |

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- BP-OBJ-025 [BLUE\_PAGE]

CONTAINMENT\_MODIFICATION\_RECEIPT - Governed Object

Aliases: CONTAINMENT\_MODIFICATION\_RECEIPT | References: official-docs/blue-pages/individual/objects/BP-OBJ-025\_CONTAINMENT\_MODIFICATION\_RECEIPT.pdf | Ceiling: REFERENCE\_ONLY
- BP-OBJ-026 [BLUE\_PAGE]

CONE\_TOP\_PEARL\_ANCHOR - Governed Object

Aliases: CONE\_TOP\_PEARL\_ANCHOR | References: official-docs/blue-pages/individual/objects/BP-OBJ-026\_CONE\_TOP\_PEARL\_ANCHOR.pdf | Ceiling: REFERENCE\_ONLY
- BP-OBJ-027 [BLUE\_PAGE]

GAS\_HEIGHT\_OBSERVATION - Governed Object

Aliases: GAS\_HEIGHT\_OBSERVATION | References: official-docs/blue-pages/individual/objects/BP-OBJ-027\_GAS\_HEIGHT\_OBSERVATION.pdf | Ceiling: REFERENCE\_ONLY
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RESERVOIR\_RETURN\_LOOP\_PROFILE - Governed Object

Aliases: RESERVOIR\_RETURN\_LOOP\_PROFILE | References: official-docs/blue-pages/individual/objects/BP-OBJ-028\_RESERVOIR\_RETURN\_LOOP\_PROFILE.pdf | Ceiling: REFERENCE\_ONLY
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OUTWARD\_GAP\_PATH\_RECEIPT - Governed Object

Aliases: OUTWARD\_GAP\_PATH\_RECEIPT | References: official-docs/blue-pages/individual/objects/BP-OBJ-029\_OUTWARD\_GAP\_PATH\_RECEIPT.pdf | Ceiling: REFERENCE\_ONLY
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RESERVOIR\_BUFFER\_ACCOUNT - Governed Object

Aliases: RESERVOIR\_BUFFER\_ACCOUNT | References: official-docs/blue-pages/individual/objects/BP-OBJ-030\_RESERVOIR\_BUFFER\_ACCOUNT.pdf | Ceiling: REFERENCE\_ONLY
- BP-OBJ-031 [BLUE\_PAGE]

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Aliases: CIRCULAR\_REENTRY\_RECEIPT | References: official-docs/blue-pages/individual/objects/BP-OBJ-031\_CIRCULAR\_REENTRY\_RECEIPT.pdf | Ceiling: REFERENCE\_ONLY
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RELATIVE\_FRAME\_FRICTION\_LEDGER - Governed Object

Aliases: RELATIVE\_FRAME\_FRICTION\_LEDGER | References: official-docs/blue-pages/individual/objects/BP-OBJ-032\_RELATIVE\_FRAME\_FRICTION\_LEDGER.pdf | Ceiling: REFERENCE\_ONLY

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RESERVOIR\_LAKE\_BUFFER - Governed Object

Aliases: RESERVOIR\_LAKE\_BUFFER | References: official-docs/blue-pages/individual/objects/BP-OBJ-033\_RESERVOIR\_LAKE\_BUFFER.pdf | Ceiling: REFERENCE\_ONLY
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BACKSIDE\_OUTLET\_PORT - Governed Object

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- BP-OBJ-035 [BLUE\_PAGE]**

OUTWARD\_GAP\_ARC - Governed Object

Aliases: OUTWARD\_GAP\_ARC | References: official-docs/blue-pages/individual/objects/BP-OBJ-035\_OUTWARD\_GAP\_ARC.pdf | Ceiling: REFERENCE\_ONLY
- BP-OBJ-036 [BLUE\_PAGE]**

PEARL\_REFERENCE\_CIRCLE - Governed Object

Aliases: PEARL\_REFERENCE\_CIRCLE | References: official-docs/blue-pages/individual/objects/BP-OBJ-036\_PEARL\_REFERENCE\_CIRCLE.pdf | Ceiling: REFERENCE\_ONLY
- BP-OBJ-037 [BLUE\_PAGE]**

CIRCULAR\_REENTRY\_PORT - Governed Object

Aliases: CIRCULAR\_REENTRY\_PORT | References: official-docs/blue-pages/individual/objects/BP-OBJ-037\_CIRCULAR\_REENTRY\_PORT.pdf | Ceiling: REFERENCE\_ONLY
- BP-OBJ-038 [BLUE\_PAGE]**

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Aliases: RESERVOIR\_TRANSFER\_RECEIPT | References: official-docs/blue-pages/individual/objects/BP-OBJ-038\_RESERVOIR\_TRANSFER\_RECEIPT.pdf | Ceiling: REFERENCE\_ONLY
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PERSPECTIVE\_FRICTION\_RECEIPT - Governed Object

Aliases: PERSPECTIVE\_FRICTION\_RECEIPT | References: official-docs/blue-pages/individual/objects/BP-OBJ-039\_PERSPECTIVE\_FRICTION\_RECEIPT.pdf | Ceiling: REFERENCE\_ONLY
- BP-OBJ-040 [BLUE\_PAGE]**

DRO\_UNIT - Governed Object

Aliases: DRO\_UNIT | References: official-docs/blue-pages/individual/objects/BP-OBJ-040\_DRO\_UNIT.pdf | Ceiling: REFERENCE\_ONLY

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| <b>BP-OBJ-041 [BLUE_PAGE]</b><br>DRO_SCALE_ENVELOPE - Governed Object<br><i>Aliases: DRO_SCALE_ENVELOPE   References: official-docs/blue-pages/individual/objects/BP-OBJ-041_DRO_SCALE_ENVELOPE.pdf   Ceiling: REFERENCE_ONLY</i>                               |
| <b>BP-OBJ-042 [BLUE_PAGE]</b><br>DRO_COLLECTION_RECEIPT - Governed Object<br><i>Aliases: DRO_COLLECTION_RECEIPT   References: official-docs/blue-pages/individual/objects/BP-OBJ-042_DRO_COLLECTION_RECEIPT.pdf   Ceiling: REFERENCE_ONLY</i>                   |
| <b>BP-OBJ-043 [BLUE_PAGE]</b><br>DRO_OPTICAL_EVIDENCE_PROFILE - Governed Object<br><i>Aliases: DRO_OPTICAL_EVIDENCE_PROFILE   References: official-docs/blue-pages/individual/objects/BP-OBJ-043_DRO_OPTICAL_EVIDENCE_PROFILE.pdf   Ceiling: REFERENCE_ONLY</i> |
| <b>BP-OBJ-044 [BLUE_PAGE]</b><br>DRO_PEARL_HANDOFF_RECEIPT - Governed Object<br><i>Aliases: DRO_PEARL_HANDOFF_RECEIPT   References: official-docs/blue-pages/individual/objects/BP-OBJ-044_DRO_PEARL_HANDOFF_RECEIPT.pdf   Ceiling: REFERENCE_ONLY</i>          |
| <b>BP-OBJ-045 [BLUE_PAGE]</b><br>PEARL_DRO_NODE - Governed Object<br><i>Aliases: PEARL_DRO_NODE   References: official-docs/blue-pages/individual/objects/BP-OBJ-045_PEARL_DRO_NODE.pdf   Ceiling: REFERENCE_ONLY</i>                                           |
| <b>BP-OBJ-046 [BLUE_PAGE]</b><br>DRO_START_ENERGY_PACKET - Governed Object<br><i>Aliases: DRO_START_ENERGY_PACKET   References: official-docs/blue-pages/individual/objects/BP-OBJ-046_DRO_START_ENERGY_PACKET.pdf   Ceiling: REFERENCE_ONLY</i>                |
| <b>BP-OBJ-047 [BLUE_PAGE]</b><br>DRO_IGNITION_REQUEST - Governed Object<br><i>Aliases: DRO_IGNITION_REQUEST   References: official-docs/blue-pages/individual/objects/BP-OBJ-047_DRO_IGNITION_REQUEST.pdf   Ceiling: REFERENCE_ONLY</i>                         |
| <b>BP-OBJ-048 [BLUE_PAGE]</b><br>LECANTO_IMAGE_EVIDENCE - Governed Object<br><i>Aliases: LECANTO_IMAGE_EVIDENCE   References: official-docs/blue-pages/individual/objects/BP-OBJ-048_LECANTO_IMAGE_EVIDENCE.pdf   Ceiling: REFERENCE_ONLY</i>                   |

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LECANTO\_INTENT\_HYPOTHESIS - Governed Object  
Aliases: LECANTO\_INTENT\_HYPOTHESIS | References: official-docs/blue-pages/individual/objects/BP-OBJ-049\_LECANTO\_INTENT\_HYPOTHESIS.pdf | Ceiling: REFERENCE\_ONLY

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LECANTO\_TRANSFORMATION\_RECEIPT - Governed Object  
Aliases: LECANTO\_TRANSFORMATION\_RECEIPT | References: official-docs/blue-pages/individual/objects/BP-OBJ-050\_LECANTO\_TRANSFORMATION\_RECEIPT.pdf | Ceiling: REFERENCE\_ONLY

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Aliases: IMAGE\_VARIANCE\_RECEIPT | References: official-docs/blue-pages/individual/objects/BP-OBJ-051\_IMAGE\_VARIANCE\_RECEIPT.pdf | Ceiling: REFERENCE\_ONLY

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SEMICONDUCTOR\_DRO\_ENERGY\_LEDGER - Governed Object  
Aliases: SEMICONDUCTOR\_DRO\_ENERGY\_LEDGER | References: official-docs/blue-pages/individual/objects/BP-OBJ-052\_SEMICONDUCTOR\_DRO\_ENERGY\_LEDGER.pdf | Ceiling: REFERENCE\_ONLY

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SEMICONDUCTOR\_PEARL\_NODE - Governed Object  
Aliases: SEMICONDUCTOR\_PEARL\_NODE | References: official-docs/blue-pages/individual/objects/BP-OBJ-053\_SEMICONDUCTOR\_PEARL\_NODE.pdf | Ceiling: REFERENCE\_ONLY

BP-PROD-001 [BLUE\_PAGE]

MJ Physics Based Measurement Engineering Framework - Product Brief  
Aliases: PBMEF-CORE | References: official-docs/blue-pages/individual/products/BP-PROD-001\_PBMEF-CORE.pdf | Ceiling: REFERENCE\_ONLY

BP-PROD-002 [BLUE\_PAGE]

Bangel Governed Measurement Language - Product Brief  
Aliases: Bangel-LANGUAGE | References: official-docs/blue-pages/individual/products/BP-PROD-002\_Bangel\_LANGUAGE.pdf | Ceiling: REFERENCE\_ONLY

BP-PROD-003 [BLUE\_PAGE]

Elsa Deterministic Semantic Recovery - Product Brief  
Aliases: ELSA-SEMANTICS | References: official-docs/blue-pages/individual/products/BP-PROD-003\_ELSA-SEMANTICS.pdf | Ceiling: REFERENCE\_ONLY

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BP-PROD-004 [BLUE\_PAGE]

JP Mathematical and Architectural Canon - Product Brief  
Aliases: JP-CANON | References: official-docs/blue-pages/individual/products/BP-PROD-004\_JP-CANON.pdf | Ceiling: REFERENCE\_ONLY

BP-PROD-005 [BLUE\_PAGE]

Mika/MK Physics Modulator System - Product Brief  
Aliases: MK-PHYSICS | References: official-docs/blue-pages/individual/products/BP-PROD-005\_MK-PHYSICS.pdf | Ceiling: REFERENCE\_ONLY

BP-PROD-006 [BLUE\_PAGE]

JO Deterministic Proof and Runtime - Product Brief  
Aliases: JO-RUNTIME | References: official-docs/blue-pages/individual/products/BP-PROD-006\_JO-RUNTIME.pdf | Ceiling: REFERENCE\_ONLY

BP-PROD-007 [BLUE\_PAGE]

MJOS Operating Substrate - Product Brief  
Aliases: MJOS-SUBSTRATE | References: official-docs/blue-pages/individual/products/BP-PROD-007\_MJOS-SUBSTRATE.pdf | Ceiling: REFERENCE\_ONLY

BP-PROD-008 [BLUE\_PAGE]

JP Semiconductor Phone Battery and OS Candidate - Product Brief  
Aliases: JP-SC-PHONE | References: official-docs/blue-pages/individual/products/BP-PROD-008\_JP-SC-PHONE.pdf | Ceiling: REFERENCE\_ONLY

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JP Large-Scale Boating Power Candidate - Product Brief  
Aliases: JP-LS-BOAT | References: official-docs/blue-pages/individual/products/BP-PROD-009\_JP-LS-BOAT.pdf | Ceiling: REFERENCE\_ONLY

BP-PROD-010 [BLUE\_PAGE]

JP Peaceful High-Energy Propulsion Research Candidate - Product Brief  
Aliases: JP-PEACEFUL-PROPULSION | References: official-docs/blue-pages/individual/products/BP-PROD-010\_JP-PEACEFUL-PROPULSION.pdf | Ceiling: REFERENCE\_ONLY

BP-PROD-011 [BLUE\_PAGE]

Sister Predictive Containment System - Product Brief  
Aliases: SISTER-CONTAINMENT | References: official-docs/blue-pages/individual/products/BP-PROD-011\_SISTER-CONTAINMENT.pdf | Ceiling: REFERENCE\_ONLY

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| <b>BP-PROD-012 [BLUE_PAGE]</b><br>EVE Variance Screen and Egress Accounting - Product Brief<br><i>Aliases: EVE-SCREEN   References: official-docs/blue-pages/individual/products/BP-PROD-012_EVE-SCREEN.pdf   Ceiling: REFERENCE_ONLY</i>          |
| <b>BP-PROD-013 [BLUE_PAGE]</b><br>Angels Safety and Corrective Command System - Product Brief<br><i>Aliases: ANGELS-SAFETY   References: official-docs/blue-pages/individual/products/BP-PROD-013_ANGELS-SAFETY.pdf   Ceiling: REFERENCE_ONLY</i>  |
| <b>BP-PROD-014 [BLUE_PAGE]</b><br>Mermaid Accounting and Reconciliation System - Product Brief<br><i>Aliases: MERMAID-RECON   References: official-docs/blue-pages/individual/products/BP-PROD-014_MERMAID-RECON.pdf   Ceiling: REFERENCE_ONLY</i> |
| <b>BP-PROD-015 [BLUE_PAGE]</b><br>Shiva Dual Financial Rails - Product Brief<br><i>Aliases: SHIVA-RAILS   References: official-docs/blue-pages/individual/products/BP-PROD-015_SHIVA-RAILS.pdf   Ceiling: REFERENCE_ONLY</i>                       |
| <b>BP-PROD-016 [BLUE_PAGE]</b><br>SHIVAS Internal Settlement Reflection - Product Brief<br><i>Aliases: SHIVAS-INTERNAL   References: official-docs/blue-pages/individual/products/BP-PROD-016_SHIVAS-INTERNAL.pdf   Ceiling: REFERENCE_ONLY</i>    |
| <b>BP-PROD-017 [BLUE_PAGE]</b><br>Shiva Crypto External-Market Candidate - Product Brief<br><i>Aliases: SHIVA-CRYPTO   References: official-docs/blue-pages/individual/products/BP-PROD-017_SHIVA-CRYPTO.pdf   Ceiling: REFERENCE_ONLY</i>         |
| <b>BP-PROD-018 [BLUE_PAGE]</b><br>Shiva Exchange Rule Reference - Product Brief<br><i>Aliases: SHIVA-EXCHANGE   References: official-docs/blue-pages/individual/products/BP-PROD-018_SHIVA-EXCHANGE.pdf   Ceiling: REFERENCE_ONLY</i>              |
| <b>BP-PROD-019 [BLUE_PAGE]</b><br>Moana Governed Browser - Product Brief<br><i>Aliases: MOANA-BROWSER   References: official-docs/blue-pages/individual/products/BP-PROD-019_MOANA-BROWSER.pdf   Ceiling: REFERENCE_ONLY</i>                       |

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| Aviator Organizational Workspace - Product Brief<br>Aliases: AVIATOR-WORKSPACE   References: official-docs/blue-pages/individual/products/BP-PROD-020_AVIATOR-WORKSPACE.pdf   Ceiling: REFERENCE_ONLY                                                 |
| <b>BP-PROD-021 [BLUE_PAGE]</b>                                                                                                                                                                                                                        |
| Lecanto Truthful Visualization - Product Brief<br>Aliases: LECANTO-VISUAL   References: official-docs/blue-pages/individual/products/BP-PROD-021_LECANTO-VISUAL.pdf   Ceiling: REFERENCE_ONLY                                                         |
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| Elsa Governed Marketplace Reference - Product Brief<br>Aliases: ELSA-MARKETPLACE   References: official-docs/blue-pages/individual/products/BP-PROD-022_ELSA-MARKETPLACE.pdf   Ceiling: REFERENCE_ONLY                                                |
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| Shekina Distributed Continuity - Product Brief<br>Aliases: SHEKINA-CONTINUITY   References: official-docs/blue-pages/individual/products/BP-PROD-023_SHEKINA-CONTINUITY.pdf   Ceiling: REFERENCE_ONLY                                                 |
| <b>BP-PROD-024 [BLUE_PAGE]</b>                                                                                                                                                                                                                        |
| Pearl Hypothetical Simulation and Information-Retention System - Product Brief<br>Aliases: PEARL-CONTAINMENT   References: official-docs/blue-pages/individual/products/BP-PROD-024_PEARL-CONTAINMENT.pdf   Ceiling: REFERENCE_ONLY                   |
| <b>BP-PROD-025 [BLUE_PAGE]</b>                                                                                                                                                                                                                        |
| Bangel Spreadsheets - Product Brief<br>Aliases: Bangel-SPREADSHEETS   References: official-docs/blue-pages/individual/products/BP-PROD-025_Bangel_SPREADSHEETS.pdf   Ceiling: REFERENCE_ONLY                                                          |
| <b>BP-PROD-026 [BLUE_PAGE]</b>                                                                                                                                                                                                                        |
| JPOSMJ Product Portfolio Envelope - Product Brief<br>Aliases: JPOSMJ-PORTFOLIO   References: official-docs/blue-pages/individual/products/BP-PROD-026_JPOSMJ-PORTFOLIO.pdf   Ceiling: REFERENCE_ONLY                                                  |
| <b>BP-PROD-027 [BLUE_PAGE]</b>                                                                                                                                                                                                                        |
| MJ Standard Containment Geometry and Reference Gas Model - Product Brief<br>Aliases: STANDARD-CONTAINMENT-GEOMETRY   References: official-docs/blue-pages/individual/products/BP-PROD-027_STANDARD-CONTAINMENT-GEOMETRY.pdf   Ceiling: REFERENCE_ONLY |

Definitive categorized terminology and alias reference

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| <b>BP-PROD-028 [BLUE_PAGE]</b>                                                                                                                                                                                                                                               |
| MJ Reservoir Collection, Lake Buffer, and Spiral-Compatible Re-entry - Product Brief<br><i>Aliases: RESERVOIR-COLLECTION-MODULATION   References: official-docs/blue-pages/individual/products/BP-PROD-028_RESERVOIR-COLLECTION-MODULATION.pdf   Ceiling: REFERENCE_ONLY</i> |
| <b>BP-PROD-029 [BLUE_PAGE]</b>                                                                                                                                                                                                                                               |
| MJOS Solar Shared-Core Architecture - Product Brief<br><i>Aliases: MJOS-SOLAR-CORE-001   References: official-docs/blue-pages/individual/products/BP-PROD-029_MJOS-SOLAR-CORE-001.pdf   Ceiling: REFERENCE_ONLY</i>                                                          |
| <b>BP-PROD-030 [BLUE_PAGE]</b>                                                                                                                                                                                                                                               |
| MJOS Solar Semiconductor Phone Battery and OS Profile - Product Brief<br><i>Aliases: MJOS-SOLAR-SEMI-PHONE-001   References: official-docs/blue-pages/individual/products/BP-PROD-030_MJOS-SOLAR-SEMI-PHONE-001.pdf   Ceiling: REFERENCE_ONLY</i>                            |
| <b>BP-PROD-031 [BLUE_PAGE]</b>                                                                                                                                                                                                                                               |
| MJOS Solar-Assisted Marine Power and Propulsion Profile - Product Brief<br><i>Aliases: MJOS-SOLAR-MARINE-001   References: official-docs/blue-pages/individual/products/BP-PROD-031_MJOS-SOLAR-MARINE-001.pdf   Ceiling: REFERENCE_ONLY</i>                                  |
| <b>BP-PROD-032 [BLUE_PAGE]</b>                                                                                                                                                                                                                                               |
| MJOS Peaceful Solar-Assisted Rocket/Spacecraft Power and OS Profile - Product Brief<br><i>Aliases: MJOS-SOLAR-ROCKET-001   References: official-docs/blue-pages/individual/products/BP-PROD-032_MJOS-SOLAR-ROCKET-001.pdf   Ceiling: REFERENCE_ONLY</i>                      |
| <b>BP-PROD-033 [BLUE_PAGE]</b>                                                                                                                                                                                                                                               |
| DRO Discrete Retention and Element-Collection Reference System - Product Brief<br><i>Aliases: DRO-COLLECTION-001   References: official-docs/blue-pages/individual/products/BP-PROD-033_DRO-COLLECTION-001.pdf   Ceiling: REFERENCE_ONLY</i>                                 |
| <b>BP-PROD-034 [BLUE_PAGE]</b>                                                                                                                                                                                                                                               |
| DRO-to-Pearl Computational Node Handoff - Product Brief<br><i>Aliases: DRO-PEARL-HANDOFF-001   References: official-docs/blue-pages/individual/products/BP-PROD-034_DRO-PEARL-HANDOFF-001.pdf   Ceiling: REFERENCE_ONLY</i>                                                  |
| <b>BP-PROD-035 [BLUE_PAGE]</b>                                                                                                                                                                                                                                               |
| DRO Start-Energy and Restart-Reserve Reference System - Product Brief<br><i>Aliases: DRO-IGNITION-REFERENCE-001   References: official-docs/blue-pages/individual/products/BP-PROD-035_DRO-IGNITION-REFERENCE-001.pdf   Ceiling: REFERENCE_ONLY</i>                          |

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BP-PROD-036 [BLUE\_PAGE]

Lecanto Image Provenance, Physics, Variance, and Intent-Hypothesis System - Product Brief  
Aliases: LECANTO-IMAGE-TRUTH-001 | References: official-docs/blue-pages/individual/products/BP-PROD-036\_LECANTO-IMAGE-TRUTH-001.pdf | Ceiling: REFERENCE\_ONLY

BP-PROD-037 [BLUE\_PAGE]

JP Semiconductor DRO and Pearl Computational Integration - Product Brief  
Aliases: JP-SC-DRO-PEARL-INTEGRATION-001 | References: official-docs/blue-pages/individual/products/BP-PROD-037\_JP-SC-DRO-PEARL-INTEGRATION-001.pdf | Ceiling: REFERENCE\_ONLY

YP-001 [YELLOW\_PAGE]

Formula cluster F-001 through F-006  
Aliases: F-001,F-002,F-003,F-004,F-005,F-006 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY

YP-002 [YELLOW\_PAGE]

Formula cluster F-007 through F-012  
Aliases: F-007,F-008,F-009,F-010,F-011,F-012 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY

YP-003 [YELLOW\_PAGE]

Formula cluster F-013 through F-018  
Aliases: F-013,F-014,F-015,F-016,F-017,F-018 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY

YP-004 [YELLOW\_PAGE]

Formula cluster F-019 through F-024  
Aliases: F-019,F-020,F-021,F-022,F-023,F-024 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY

YP-005 [YELLOW\_PAGE]

Formula cluster F-025 through F-030  
Aliases: F-025,F-026,F-027,F-028,F-029,F-030 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY

YP-006 [YELLOW\_PAGE]

Formula cluster F-031 through F-036  
Aliases: F-031,F-032,F-033,F-034,F-035,F-036 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY

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- YP-007 [YELLOW\_PAGE]**

Formula cluster F-037 through F-042

Aliases: F-037,F-038,F-039,F-040,F-041,F-042 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY
- YP-008 [YELLOW\_PAGE]**

Formula cluster F-043 through F-048

Aliases: F-043,F-044,F-045,F-046,F-047,F-048 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY
- YP-009 [YELLOW\_PAGE]**

Formula cluster F-049 through F-054

Aliases: F-049,F-050,F-051,F-052,F-053,F-054 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY
- YP-010 [YELLOW\_PAGE]**

Formula cluster F-055 through F-060

Aliases: F-055,F-056,F-057,F-058,F-059,F-060 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY
- YP-011 [YELLOW\_PAGE]**

Formula cluster F-061 through F-066

Aliases: F-061,F-062,F-063,F-064,F-065,F-066 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY
- YP-012 [YELLOW\_PAGE]**

Formula cluster F-067 through F-072

Aliases: F-067,F-068,F-069,F-070,F-071,F-072 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY
- YP-013 [YELLOW\_PAGE]**

Formula cluster F-073 through F-078

Aliases: F-073,F-074,F-075,F-076,F-077,F-078 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY
- YP-014 [YELLOW\_PAGE]**

Formula cluster F-079 through F-084

Aliases: F-079,F-080,F-081,F-082,F-083,F-084 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY

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- YP-015 [YELLOW\_PAGE]

Formula cluster F-085 through F-090

Aliases: F-085,F-086,F-087,F-088,F-089,F-090 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY
- YP-016 [YELLOW\_PAGE]

Formula cluster F-091 through F-096

Aliases: F-091,F-092,F-093,F-094,F-095,F-096 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY
- YP-017 [YELLOW\_PAGE]

Formula cluster F-097 through F-102

Aliases: F-097,F-098,F-099,F-100,F-101,F-102 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY
- YP-018 [YELLOW\_PAGE]

Formula cluster F-103 through F-108

Aliases: F-103,F-104,F-105,F-106,F-107,F-108 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY
- YP-019 [YELLOW\_PAGE]

Formula cluster F-109 through F-114

Aliases: F-109,F-110,F-111,F-112,F-113,F-114 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY
- YP-020 [YELLOW\_PAGE]

Formula cluster F-115 through F-121

Aliases: F-115,F-116,F-117,F-118,F-119,F-120,F-121 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY
- YP-021 [YELLOW\_PAGE]

Formula cluster F-122 through F-127

Aliases: F-122,F-123,F-124,F-125,F-126,F-127 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY
- YP-022 [YELLOW\_PAGE]

Formula cluster F-128 through F-133

Aliases: F-128,F-129,F-130,F-131,F-132,F-133 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY

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- YP-023 [YELLOW\_PAGE]**

Formula cluster F-134 through F-139

*Aliases: F-134,F-135,F-136,F-137,F-138,F-139 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY*
- YP-024 [YELLOW\_PAGE]**

Formula cluster F-140 through F-145

*Aliases: F-140,F-141,F-142,F-143,F-144,F-145 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY*
- YP-025 [YELLOW\_PAGE]**

Formula cluster F-146 through F-151

*Aliases: F-146,F-147,F-148,F-149,F-150,F-151 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY*
- YP-026 [YELLOW\_PAGE]**

Formula cluster F-152 through F-157

*Aliases: F-152,F-153,F-154,F-155,F-156,F-157 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY*
- YP-027 [YELLOW\_PAGE]**

Formula cluster F-158 through F-163

*Aliases: F-158,F-159,F-160,F-161,F-162,F-163 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY*
- YP-028 [YELLOW\_PAGE]**

Formula cluster F-164 through F-169

*Aliases: F-164,F-165,F-166,F-167,F-168,F-169 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY*
- YP-029 [YELLOW\_PAGE]**

Formula cluster F-170 through F-175

*Aliases: F-170,F-171,F-172,F-173,F-174,F-175 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY*
- YP-030 [YELLOW\_PAGE]**

Formula cluster F-176 through F-181

*Aliases: F-176,F-177,F-178,F-179,F-180,F-181 | References: YELLOW\_PAGE | Ceiling: REFERENCE\_ONLY*

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| <div>YP-031 [YELLOW_PAGE]</div> <div>Formula cluster F-182 through F-187</div> <div>Aliases: F-182,F-183,F-184,F-185,F-186,F-187   References: YELLOW_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>YP-032 [YELLOW_PAGE]</div> <div>Formula cluster F-188 through F-193</div> <div>Aliases: F-188,F-189,F-190,F-191,F-192,F-193   References: YELLOW_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>YP-033 [YELLOW_PAGE]</div> <div>Formula cluster F-194 through F-199</div> <div>Aliases: F-194,F-195,F-196,F-197,F-198,F-199   References: YELLOW_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>YP-034 [YELLOW_PAGE]</div> <div>Formula cluster F-200 through F-205</div> <div>Aliases: F-200,F-201,F-202,F-203,F-204,F-205   References: YELLOW_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>YP-035 [YELLOW_PAGE]</div> <div>Formula cluster F-206 through F-211</div> <div>Aliases: F-206,F-207,F-208,F-209,F-210,F-211   References: YELLOW_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>YP-036 [YELLOW_PAGE]</div> <div>Formula cluster F-212 through F-217</div> <div>Aliases: F-212,F-213,F-214,F-215,F-216,F-217   References: YELLOW_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>YP-037 [YELLOW_PAGE]</div> <div>Formula cluster F-218 through F-223</div> <div>Aliases: F-218,F-219,F-220,F-221,F-222,F-223   References: YELLOW_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>YP-038 [YELLOW_PAGE]</div> <div>Formula cluster F-224 through F-229</div> <div>Aliases: F-224,F-225,F-226,F-227,F-228,F-229   References: YELLOW_PAGE   Ceiling: REFERENCE_ONLY</div> |

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| <div>YP-039 [YELLOW_PAGE]</div> <div>Formula cluster F-230 through F-235</div> <div>Aliases: F-230,F-231,F-232,F-233,F-234,F-235   References: YELLOW_PAGE   Ceiling: REFERENCE_ONLY</div>       |
| <div>YP-040 [YELLOW_PAGE]</div> <div>Formula cluster F-236 through F-242</div> <div>Aliases: F-236,F-237,F-238,F-239,F-240,F-241,F-242   References: YELLOW_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>TP-001 [TEAL_PAGE]</div> <div>R1 transition</div> <div>Aliases: BP-ALG-001   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>                                                          |
| <div>TP-002 [TEAL_PAGE]</div> <div>R2 transition</div> <div>Aliases: BP-ALG-002   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>                                                          |
| <div>TP-003 [TEAL_PAGE]</div> <div>Unknown invariant</div> <div>Aliases: BP-ALG-003   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>                                                      |
| <div>TP-004 [TEAL_PAGE]</div> <div>Mass inflection</div> <div>Aliases: BP-ALG-004   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>                                                        |
| <div>TP-005 [TEAL_PAGE]</div> <div>Noise smoothing</div> <div>Aliases: BP-ALG-005   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>                                                        |
| <div>TP-006 [TEAL_PAGE]</div> <div>Trend estimator</div> <div>Aliases: BP-ALG-006   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>                                                        |

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| <div>TP-007 [TEAL_PAGE]</div> <div>Anti-spike gate</div> <div>Aliases: BP-ALG-007   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>                          |
| <div>TP-008 [TEAL_PAGE]</div> <div>Prediction gain</div> <div>Aliases: BP-ALG-008   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>                          |
| <div>TP-009 [TEAL_PAGE]</div> <div>Covariance update</div> <div>Aliases: BP-ALG-009   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>                        |
| <div>TP-010 [TEAL_PAGE]</div> <div>Shadow depth</div> <div>Aliases: BP-ALG-010   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>                             |
| <div>TP-011 [TEAL_PAGE]</div> <div>Shadow growth rate</div> <div>Aliases: BP-ALG-011   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>                       |
| <div>TP-012 [TEAL_PAGE]</div> <div>Front-end allocation / Front-end reserve</div> <div>Aliases: BP-ALG-012   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>TP-013 [TEAL_PAGE]</div> <div>Bounded allocation update</div> <div>Aliases: BP-ALG-013   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>                |
| <div>TP-014 [TEAL_PAGE]</div> <div>Request memory</div> <div>Aliases: BP-ALG-014   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>                           |

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| <div>TP-015 [TEAL_PAGE]</div> <div>Memory preallocation</div> <div>Aliases: BP-ALG-015   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>              |
| <div>TP-016 [TEAL_PAGE]</div> <div>Hard flush</div> <div>Aliases: BP-ALG-016   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>                        |
| <div>TP-017 [TEAL_PAGE]</div> <div>Charge balance</div> <div>Aliases: BP-ALG-017   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>                    |
| <div>TP-018 [TEAL_PAGE]</div> <div>Capacitor energy</div> <div>Aliases: BP-ALG-018   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>                  |
| <div>TP-019 [TEAL_PAGE]</div> <div>General stored energy</div> <div>Aliases: BP-ALG-019   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>             |
| <div>TP-020 [TEAL_PAGE]</div> <div>Energy balance</div> <div>Aliases: BP-ALG-020   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>                    |
| <div>TP-021 [TEAL_PAGE]</div> <div>Mass balance / EVE screen balance</div> <div>Aliases: BP-ALG-021   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>TP-022 [TEAL_PAGE]</div> <div>EVE evaporation</div> <div>Aliases: BP-ALG-022   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>                   |

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TP-023 [TEAL\_PAGE]

Upward force  
Aliases: BP-ALG-023 | References: TEAL\_PAGE | Ceiling: REFERENCE\_ONLY

TP-024 [TEAL\_PAGE]

Coordinate mapping  
Aliases: BP-ALG-024 | References: TEAL\_PAGE | Ceiling: REFERENCE\_ONLY

TP-025 [TEAL\_PAGE]

Sister physical umbrella count  
Aliases: BP-ALG-025 | References: TEAL\_PAGE | Ceiling: REFERENCE\_ONLY

TP-026 [TEAL\_PAGE]

Byte balance  
Aliases: BP-ALG-026 | References: TEAL\_PAGE | Ceiling: REFERENCE\_ONLY

TP-027 [TEAL\_PAGE]

Residual consequence  
Aliases: BP-ALG-027 | References: TEAL\_PAGE | Ceiling: REFERENCE\_ONLY

TP-028 [TEAL\_PAGE]

Protected liquidity  
Aliases: BP-ALG-028 | References: TEAL\_PAGE | Ceiling: REFERENCE\_ONLY

TP-029 [TEAL\_PAGE]

Investable surplus  
Aliases: BP-ALG-029 | References: TEAL\_PAGE | Ceiling: REFERENCE\_ONLY

TP-030 [TEAL\_PAGE]

Risk-capital ceiling  
Aliases: BP-ALG-030 | References: TEAL\_PAGE | Ceiling: REFERENCE\_ONLY

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| <div>TP-031 [TEAL_PAGE]</div> <div>Portfolio concentration</div> <div>Aliases: BP-ALG-031   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>TP-032 [TEAL_PAGE]</div> <div>Portfolio variance</div> <div>Aliases: BP-ALG-032   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>      |
| <div>TP-033 [TEAL_PAGE]</div> <div>Capital friction</div> <div>Aliases: BP-ALG-033   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>        |
| <div>TP-034 [TEAL_PAGE]</div> <div>Opportunity lower bound</div> <div>Aliases: BP-ALG-034   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>TP-035 [TEAL_PAGE]</div> <div>Abundance objective</div> <div>Aliases: BP-ALG-035   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>     |
| <div>TP-036 [TEAL_PAGE]</div> <div>SHIVAS eligible value</div> <div>Aliases: BP-ALG-036   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>   |
| <div>TP-037 [TEAL_PAGE]</div> <div>SHIVAS ceiling</div> <div>Aliases: BP-ALG-037   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>          |
| <div>TP-038 [TEAL_PAGE]</div> <div>MK state model</div> <div>Aliases: BP-ALG-038   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>          |

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| <div>TP-039 [TEAL_PAGE]</div> <div>Dimensional integrity</div> <div>Aliases: BP-ALG-039   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>                             |
| <div>TP-040 [TEAL_PAGE]</div> <div>Conservation residual</div> <div>Aliases: BP-ALG-040   References: TEAL_PAGE   Ceiling: REFERENCE_ONLY</div>                             |
| <div>BR-001 [BROWN_PAGE]</div> <div>Observational lifecycle group 001</div> <div>Aliases: BP-ALG-001,TP-101,YP-001   References: BROWN_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>BR-002 [BROWN_PAGE]</div> <div>Observational lifecycle group 002</div> <div>Aliases: BP-ALG-002,TP-102,YP-002   References: BROWN_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>BR-003 [BROWN_PAGE]</div> <div>Observational lifecycle group 003</div> <div>Aliases: BP-ALG-003,TP-103,YP-003   References: BROWN_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>BR-004 [BROWN_PAGE]</div> <div>Observational lifecycle group 004</div> <div>Aliases: BP-ALG-004,TP-104,YP-004   References: BROWN_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>BR-005 [BROWN_PAGE]</div> <div>Observational lifecycle group 005</div> <div>Aliases: BP-ALG-005,TP-105,YP-005   References: BROWN_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>BR-006 [BROWN_PAGE]</div> <div>Observational lifecycle group 006</div> <div>Aliases: BP-ALG-006,TP-106,YP-006   References: BROWN_PAGE   Ceiling: REFERENCE_ONLY</div> |

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- BR-007 [BROWN\_PAGE]**

Observational lifecycle group 007

*Aliases: BP-ALG-007,TP-107,YP-007 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-008 [BROWN\_PAGE]**

Observational lifecycle group 008

*Aliases: BP-ALG-008,TP-108,YP-008 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-009 [BROWN\_PAGE]**

Observational lifecycle group 009

*Aliases: BP-ALG-009,TP-109,YP-009 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-010 [BROWN\_PAGE]**

Observational lifecycle group 010

*Aliases: BP-ALG-010,TP-110,YP-010 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-011 [BROWN\_PAGE]**

Observational lifecycle group 011

*Aliases: BP-ALG-011,TP-111,YP-011 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-012 [BROWN\_PAGE]**

Observational lifecycle group 012

*Aliases: BP-ALG-012,TP-112,YP-012 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-013 [BROWN\_PAGE]**

Observational lifecycle group 013

*Aliases: BP-ALG-013,TP-113,YP-013 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-014 [BROWN\_PAGE]**

Observational lifecycle group 014

*Aliases: BP-ALG-014,TP-114,YP-014 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*

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- BR-015 [BROWN\_PAGE]**

Observational lifecycle group 015

*Aliases: BP-ALG-015,TP-115,YP-015 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-016 [BROWN\_PAGE]**

Observational lifecycle group 016

*Aliases: BP-ALG-016,TP-116,YP-016 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-017 [BROWN\_PAGE]**

Observational lifecycle group 017

*Aliases: BP-ALG-017,TP-117,YP-017 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-018 [BROWN\_PAGE]**

Observational lifecycle group 018

*Aliases: BP-ALG-018,TP-118,YP-018 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-019 [BROWN\_PAGE]**

Observational lifecycle group 019

*Aliases: BP-ALG-019,TP-119,YP-019 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-020 [BROWN\_PAGE]**

Observational lifecycle group 020

*Aliases: BP-ALG-020,TP-120,YP-020 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-021 [BROWN\_PAGE]**

Observational lifecycle group 021

*Aliases: BP-ALG-021,TP-121,YP-021 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-022 [BROWN\_PAGE]**

Observational lifecycle group 022

*Aliases: BP-ALG-022,TP-122,YP-022 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*

Definitive categorized terminology and alias reference

BR-023 [BROWN\_PAGE]

Observational lifecycle group 023  
Aliases: BP-ALG-023,TP-123,YP-023 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY

BR-024 [BROWN\_PAGE]

Observational lifecycle group 024  
Aliases: BP-ALG-024,TP-124,YP-024 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY

BR-025 [BROWN\_PAGE]

Observational lifecycle group 025  
Aliases: BP-ALG-025,TP-125,YP-025 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY

BR-026 [BROWN\_PAGE]

Observational lifecycle group 026  
Aliases: BP-ALG-026,TP-126,YP-026 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY

BR-027 [BROWN\_PAGE]

Observational lifecycle group 027  
Aliases: BP-ALG-027,TP-127,YP-027 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY

BR-028 [BROWN\_PAGE]

Observational lifecycle group 028  
Aliases: BP-ALG-028,TP-128,YP-028 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY

BR-029 [BROWN\_PAGE]

Observational lifecycle group 029  
Aliases: BP-ALG-029,TP-129,YP-029 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY

BR-030 [BROWN\_PAGE]

Observational lifecycle group 030  
Aliases: BP-ALG-030,TP-130,YP-030 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY

Definitive categorized terminology and alias reference

- BR-031 [BROWN\_PAGE]**

Observational lifecycle group 031

*Aliases: BP-ALG-031,TP-131,YP-031 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-032 [BROWN\_PAGE]**

Observational lifecycle group 032

*Aliases: BP-ALG-032,TP-132,YP-032 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-033 [BROWN\_PAGE]**

Observational lifecycle group 033

*Aliases: BP-ALG-033,TP-133,YP-033 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-034 [BROWN\_PAGE]**

Observational lifecycle group 034

*Aliases: BP-ALG-034,TP-134,YP-034 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-035 [BROWN\_PAGE]**

Observational lifecycle group 035

*Aliases: BP-ALG-035,TP-135,YP-035 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-036 [BROWN\_PAGE]**

Observational lifecycle group 036

*Aliases: BP-ALG-036,TP-136,YP-036 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-037 [BROWN\_PAGE]**

Observational lifecycle group 037

*Aliases: BP-ALG-037,TP-137,YP-037 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*
- BR-038 [BROWN\_PAGE]**

Observational lifecycle group 038

*Aliases: BP-ALG-038,TP-138,YP-038 | References: BROWN\_PAGE | Ceiling: REFERENCE\_ONLY*

Definitive categorized terminology and alias reference

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| <div>BR-039 [BROWN_PAGE]</div> <div>Observational lifecycle group 039</div> <div>Aliases: BP-ALG-039,TP-139,YP-039   References: BROWN_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>BR-040 [BROWN_PAGE]</div> <div>Observational lifecycle group 040</div> <div>Aliases: BP-ALG-040,TP-140,YP-040   References: BROWN_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>PP-001 [PURPLE_PAGE]</div> <div>R1 transition</div> <div>Aliases: BP-ALG-001   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div>                                 |
| <div>PP-002 [PURPLE_PAGE]</div> <div>R2 transition</div> <div>Aliases: BP-ALG-002   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div>                                 |
| <div>PP-003 [PURPLE_PAGE]</div> <div>Unknown invariant</div> <div>Aliases: BP-ALG-003   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div>                             |
| <div>PP-004 [PURPLE_PAGE]</div> <div>Mass inflection</div> <div>Aliases: BP-ALG-004   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div>                               |
| <div>PP-005 [PURPLE_PAGE]</div> <div>Noise smoothing</div> <div>Aliases: BP-ALG-005   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div>                               |
| <div>PP-006 [PURPLE_PAGE]</div> <div>Trend estimator</div> <div>Aliases: BP-ALG-006   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div>                               |

Definitive categorized terminology and alias reference

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>PP-007 [PURPLE_PAGE]</div> <div>Anti-spike gate</div> <div>Aliases: BP-ALG-007   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div>                          |
| <div>PP-008 [PURPLE_PAGE]</div> <div>Prediction gain</div> <div>Aliases: BP-ALG-008   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div>                          |
| <div>PP-009 [PURPLE_PAGE]</div> <div>Covariance update</div> <div>Aliases: BP-ALG-009   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div>                        |
| <div>PP-010 [PURPLE_PAGE]</div> <div>Shadow depth</div> <div>Aliases: BP-ALG-010   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div>                             |
| <div>PP-011 [PURPLE_PAGE]</div> <div>Shadow growth rate</div> <div>Aliases: BP-ALG-011   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div>                       |
| <div>PP-012 [PURPLE_PAGE]</div> <div>Front-end allocation / Front-end reserve</div> <div>Aliases: BP-ALG-012   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>PP-013 [PURPLE_PAGE]</div> <div>Bounded allocation update</div> <div>Aliases: BP-ALG-013   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div>                |
| <div>PP-014 [PURPLE_PAGE]</div> <div>Request memory</div> <div>Aliases: BP-ALG-014   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div>                           |

Definitive categorized terminology and alias reference

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| <b>PP-015 [PURPLE_PAGE]</b>                                                                                         |
| Memory preallocation<br><i>Aliases: BP-ALG-015   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</i>              |
| <b>PP-016 [PURPLE_PAGE]</b>                                                                                         |
| Hard flush<br><i>Aliases: BP-ALG-016   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</i>                        |
| <b>PP-017 [PURPLE_PAGE]</b>                                                                                         |
| Charge balance<br><i>Aliases: BP-ALG-017   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</i>                    |
| <b>PP-018 [PURPLE_PAGE]</b>                                                                                         |
| Capacitor energy<br><i>Aliases: BP-ALG-018   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</i>                  |
| <b>PP-019 [PURPLE_PAGE]</b>                                                                                         |
| General stored energy<br><i>Aliases: BP-ALG-019   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</i>             |
| <b>PP-020 [PURPLE_PAGE]</b>                                                                                         |
| Energy balance<br><i>Aliases: BP-ALG-020   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</i>                    |
| <b>PP-021 [PURPLE_PAGE]</b>                                                                                         |
| Mass balance / EVE screen balance<br><i>Aliases: BP-ALG-021   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</i> |
| <b>PP-022 [PURPLE_PAGE]</b>                                                                                         |
| EVE evaporation<br><i>Aliases: BP-ALG-022   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</i>                   |

Definitive categorized terminology and alias reference

- PP-023 [PURPLE\_PAGE]

Upward force

Aliases: BP-ALG-023 | References: PURPLE\_PAGE | Ceiling: REFERENCE\_ONLY
- PP-024 [PURPLE\_PAGE]

Coordinate mapping

Aliases: BP-ALG-024 | References: PURPLE\_PAGE | Ceiling: REFERENCE\_ONLY
- PP-025 [PURPLE\_PAGE]

Sister physical umbrella count

Aliases: BP-ALG-025 | References: PURPLE\_PAGE | Ceiling: REFERENCE\_ONLY
- PP-026 [PURPLE\_PAGE]

Byte balance

Aliases: BP-ALG-026 | References: PURPLE\_PAGE | Ceiling: REFERENCE\_ONLY
- PP-027 [PURPLE\_PAGE]

Residual consequence

Aliases: BP-ALG-027 | References: PURPLE\_PAGE | Ceiling: REFERENCE\_ONLY
- PP-028 [PURPLE\_PAGE]

Protected liquidity

Aliases: BP-ALG-028 | References: PURPLE\_PAGE | Ceiling: REFERENCE\_ONLY
- PP-029 [PURPLE\_PAGE]

Investable surplus

Aliases: BP-ALG-029 | References: PURPLE\_PAGE | Ceiling: REFERENCE\_ONLY
- PP-030 [PURPLE\_PAGE]

Risk-capital ceiling

Aliases: BP-ALG-030 | References: PURPLE\_PAGE | Ceiling: REFERENCE\_ONLY

Definitive categorized terminology and alias reference

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| <div>PP-031 [PURPLE_PAGE]</div> <div>Portfolio concentration</div> <div>Aliases: BP-ALG-031   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>PP-032 [PURPLE_PAGE]</div> <div>Portfolio variance</div> <div>Aliases: BP-ALG-032   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div>      |
| <div>PP-033 [PURPLE_PAGE]</div> <div>Capital friction</div> <div>Aliases: BP-ALG-033   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div>        |
| <div>PP-034 [PURPLE_PAGE]</div> <div>Opportunity lower bound</div> <div>Aliases: BP-ALG-034   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>PP-035 [PURPLE_PAGE]</div> <div>Abundance objective</div> <div>Aliases: BP-ALG-035   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div>     |
| <div>PP-036 [PURPLE_PAGE]</div> <div>SHIVAS eligible value</div> <div>Aliases: BP-ALG-036   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div>   |
| <div>PP-037 [PURPLE_PAGE]</div> <div>SHIVAS ceiling</div> <div>Aliases: BP-ALG-037   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div>          |
| <div>PP-038 [PURPLE_PAGE]</div> <div>MK state model</div> <div>Aliases: BP-ALG-038   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div>          |

Definitive categorized terminology and alias reference

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| <div>PP-039 [PURPLE_PAGE]</div> <div>Dimensional integrity</div> <div>Aliases: BP-ALG-039   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>PP-040 [PURPLE_PAGE]</div> <div>Conservation residual</div> <div>Aliases: BP-ALG-040   References: PURPLE_PAGE   Ceiling: REFERENCE_ONLY</div> |
| <div>AR-001 [ANGEL_REPORT]</div> <div>R1 transition</div> <div>Aliases: BP-ALG-001   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>       |
| <div>AR-002 [ANGEL_REPORT]</div> <div>R2 transition</div> <div>Aliases: BP-ALG-002   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>       |
| <div>AR-003 [ANGEL_REPORT]</div> <div>Unknown invariant</div> <div>Aliases: BP-ALG-003   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>   |
| <div>AR-004 [ANGEL_REPORT]</div> <div>Mass inflection</div> <div>Aliases: BP-ALG-004   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>     |
| <div>AR-005 [ANGEL_REPORT]</div> <div>Noise smoothing</div> <div>Aliases: BP-ALG-005   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>     |
| <div>AR-006 [ANGEL_REPORT]</div> <div>Trend estimator</div> <div>Aliases: BP-ALG-006   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>     |

Definitive categorized terminology and alias reference

AR-007 [ANGEL\_REPORT]

Anti-spike gate  
Aliases: BP-ALG-007 | References: ANGEL\_REPORT | Ceiling: REFERENCE\_ONLY

AR-008 [ANGEL\_REPORT]

Prediction gain  
Aliases: BP-ALG-008 | References: ANGEL\_REPORT | Ceiling: REFERENCE\_ONLY

AR-009 [ANGEL\_REPORT]

Covariance update  
Aliases: BP-ALG-009 | References: ANGEL\_REPORT | Ceiling: REFERENCE\_ONLY

AR-010 [ANGEL\_REPORT]

Shadow depth  
Aliases: BP-ALG-010 | References: ANGEL\_REPORT | Ceiling: REFERENCE\_ONLY

AR-011 [ANGEL\_REPORT]

Shadow growth rate  
Aliases: BP-ALG-011 | References: ANGEL\_REPORT | Ceiling: REFERENCE\_ONLY

AR-012 [ANGEL\_REPORT]

Front-end allocation / Front-end reserve  
Aliases: BP-ALG-012 | References: ANGEL\_REPORT | Ceiling: REFERENCE\_ONLY

AR-013 [ANGEL\_REPORT]

Bounded allocation update  
Aliases: BP-ALG-013 | References: ANGEL\_REPORT | Ceiling: REFERENCE\_ONLY

AR-014 [ANGEL\_REPORT]

Request memory  
Aliases: BP-ALG-014 | References: ANGEL\_REPORT | Ceiling: REFERENCE\_ONLY

Definitive categorized terminology and alias reference

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>AR-015 [ANGEL_REPORT]</div> <div>Memory preallocation</div> <div>Aliases: BP-ALG-015   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>              |
| <div>AR-016 [ANGEL_REPORT]</div> <div>Hard flush</div> <div>Aliases: BP-ALG-016   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>                        |
| <div>AR-017 [ANGEL_REPORT]</div> <div>Charge balance</div> <div>Aliases: BP-ALG-017   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>                    |
| <div>AR-018 [ANGEL_REPORT]</div> <div>Capacitor energy</div> <div>Aliases: BP-ALG-018   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>                  |
| <div>AR-019 [ANGEL_REPORT]</div> <div>General stored energy</div> <div>Aliases: BP-ALG-019   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>             |
| <div>AR-020 [ANGEL_REPORT]</div> <div>Energy balance</div> <div>Aliases: BP-ALG-020   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>                    |
| <div>AR-021 [ANGEL_REPORT]</div> <div>Mass balance / EVE screen balance</div> <div>Aliases: BP-ALG-021   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div> |
| <div>AR-022 [ANGEL_REPORT]</div> <div>EVE evaporation</div> <div>Aliases: BP-ALG-022   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>                   |

Definitive categorized terminology and alias reference

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>AR-023 [ANGEL_REPORT]</div> <div>Upward force</div> <div>Aliases: BP-ALG-023   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>                   |
| <div>AR-024 [ANGEL_REPORT]</div> <div>Coordinate mapping</div> <div>Aliases: BP-ALG-024   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>             |
| <div>AR-025 [ANGEL_REPORT]</div> <div>Sister physical umbrella count</div> <div>Aliases: BP-ALG-025   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div> |
| <div>AR-026 [ANGEL_REPORT]</div> <div>Byte balance</div> <div>Aliases: BP-ALG-026   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>                   |
| <div>AR-027 [ANGEL_REPORT]</div> <div>Residual consequence</div> <div>Aliases: BP-ALG-027   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>           |
| <div>AR-028 [ANGEL_REPORT]</div> <div>Protected liquidity</div> <div>Aliases: BP-ALG-028   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>            |
| <div>AR-029 [ANGEL_REPORT]</div> <div>Investable surplus</div> <div>Aliases: BP-ALG-029   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>             |
| <div>AR-030 [ANGEL_REPORT]</div> <div>Risk-capital ceiling</div> <div>Aliases: BP-ALG-030   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>           |

Definitive categorized terminology and alias reference

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|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>AR-031 [ANGEL_REPORT]</div> <div>Portfolio concentration</div> <div>Aliases: BP-ALG-031   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div> |
| <div>AR-032 [ANGEL_REPORT]</div> <div>Portfolio variance</div> <div>Aliases: BP-ALG-032   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>      |
| <div>AR-033 [ANGEL_REPORT]</div> <div>Capital friction</div> <div>Aliases: BP-ALG-033   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>        |
| <div>AR-034 [ANGEL_REPORT]</div> <div>Opportunity lower bound</div> <div>Aliases: BP-ALG-034   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div> |
| <div>AR-035 [ANGEL_REPORT]</div> <div>Abundance objective</div> <div>Aliases: BP-ALG-035   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>     |
| <div>AR-036 [ANGEL_REPORT]</div> <div>SHIVAS eligible value</div> <div>Aliases: BP-ALG-036   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>   |
| <div>AR-037 [ANGEL_REPORT]</div> <div>SHIVAS ceiling</div> <div>Aliases: BP-ALG-037   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>          |
| <div>AR-038 [ANGEL_REPORT]</div> <div>MK state model</div> <div>Aliases: BP-ALG-038   References: ANGEL_REPORT   Ceiling: REFERENCE_ONLY</div>          |

Definitive categorized terminology and alias reference

AR-039 [ANGEL\_REPORT]

Dimensional integrity

Aliases: BP-ALG-039 | References: ANGEL\_REPORT | Ceiling: REFERENCE\_ONLY

AR-040 [ANGEL\_REPORT]

Conservation residual

Aliases: BP-ALG-040 | References: ANGEL\_REPORT | Ceiling: REFERENCE\_ONLY

Module [Bangel \_CONSTRUCT]

Module is a typed reference construct used by the Pink and Purple syntax representations.

Aliases: MODULE | References: Pink Paper Volume 1 | Ceiling: REFERENCE\_ONLY

Namespace [Bangel \_CONSTRUCT]

Namespace is a typed reference construct used by the Pink and Purple syntax representations.

Aliases: NAMESPACE | References: Pink Paper Volume 1 | Ceiling: REFERENCE\_ONLY

Import [Bangel \_CONSTRUCT]

Import is a typed reference construct used by the Pink and Purple syntax representations.

Aliases: IMPORT | References: Pink Paper Volume 1 | Ceiling: REFERENCE\_ONLY

Declaration [Bangel \_CONSTRUCT]

Declaration is a typed reference construct used by the Pink and Purple syntax representations.

Aliases: DECLARATION | References: Pink Paper Volume 1 | Ceiling: REFERENCE\_ONLY

Definition [Bangel \_CONSTRUCT]

Definition is a typed reference construct used by the Pink and Purple syntax representations.

Aliases: DEFINITION | References: Pink Paper Volume 1 | Ceiling: REFERENCE\_ONLY

Capability [Bangel \_CONSTRUCT]

Capability is a typed reference construct used by the Pink and Purple syntax representations.

Aliases: CAPABILITY | References: Pink Paper Volume 1 | Ceiling: REFERENCE\_ONLY