



NOTES:

1. Work Processes and logic for project phases after the final Critical Decision (CD) - 3 authorization milestones have not been mapped in detail. These work processes will be mapped when the design and technical data is more mature.
2. "Formal" engineering document releases, reference numbers 2 through 16, include IDT coordination activities as depicted on the Work Flow Diagram. The "informal" recurring daily design integration activities between project team members are not depicted.
3. The ISM.x reference numbers indicate "formal" feedback from other project functions to the IDT that result from the "formal" document releases denoted by reference numbers 2 through 16 on the Work Flow Process Diagram.

Key

- 1 - CD1 Approval & issuance of Revised PEP, PRD, SRD, DC, IMP & EEP
- 2 - Issuance of Final PFDs
- 3.x - Preliminary Design, System Design Coordination Issues (2 document releases)
- 4.x - Preliminary Design, Utility System Design Coordination Issues (2 document releases)
- 5 - Preliminary Design Report Issue for CD - 2, Baseline Approval
- 6 - Long Lead (LL) Procurement CD Issue for CD - 3A, LL Procurement Authorization
- 7 - Intermediate Design Physical Layout Coordination Data - Integration, (Construction / Fabrication drawings (plans, sections, details & related data))
- 8 - Detailed Design Physical Coordination Data - Integration
- 9 - Facility Construction Package for CD - 3C, Construction Authorization
- 10 - Site Preparation Construction Package for CD - 3B, Site Preparation
- 11 - Equipment Installation Construction Package for CD - 3D, Equipment Installation Authorization
- 12 - Intermediate Design, System Coordination Issue
- 13 - Intermediate Design, Utility System Design Coordination Issue
- 14 - Preliminary Design Physical Design Coordination Data - Integration
- 15 - Vendor Data - Integration
- 16 - Detailed Design, System Design Coordination Data - Integration
- 17 - Quality Assurance Audit Assessment Results

ISM.1 - Preliminary Design Input, Process System Design Package
 ISM.2 - Preliminary Design Input, Utility System Design
 ISM.3 - Preliminary Design Input, Physical Design
 ISM.4 - Intermediate Design Input, Utility System Design
 ISM.5 - Intermediate Design Input, Utility System Design
 ISM.6 - Intermediate Design Input, Physical Design
 ISM.7 - Detailed System Design Input, Process & Utility System Design
 ISM.8 - Detailed Design Input, Physical Design
 ISM.9 - Vendor/Supplier Information Input & evaluations

Yellow Circle: Data Originator, when applicable to clarify process flow
 Orange Circle: Input from UPF Support Functions to IDT / SDIT

Construction

- Documented Safety Analysis (DSA) - updates
- Technical Safety Reports (TSRs) - updates
- Accident Analysis (AA) - updates
- Hazard Evaluation Study (HES) - updates

Construction

- Criticality Safety Evaluation
- Final CAAS Evaluation

Commissioning Operational / Readiness

- Essential Drawing ID
- Preoperational Testing
- Operations / Maintenance Training
- Input to "As Constructed" Drawings (P&IDs/Process Flow Diagrams)
- Input to "As Built" Drawings (ORR Assessment Prerequisite)
- Support Plans
- Staff Operations & Maintenance Positions
- START / ASGA / OBR