

FSAR Chapter 19 and Plant-Specific PRA

1. Review of FSAR Chapter 19 and Plant-Specific PRA
2. Review of NRC Staff Review of FSAR Chapter 19 and Plant-Specific PRA

3. **Public Meeting with NRC**
4. **July 27, 2005**

1. Review of FSAR Chapter 19 and Plant-Specific PRA



Main Topics

- Four Phase Approach
- P-S PRA (Phases 1/2 and 3/4)
- FSAR Chapter 19
- Other Topics and Related Discussion

4 Phase Approach

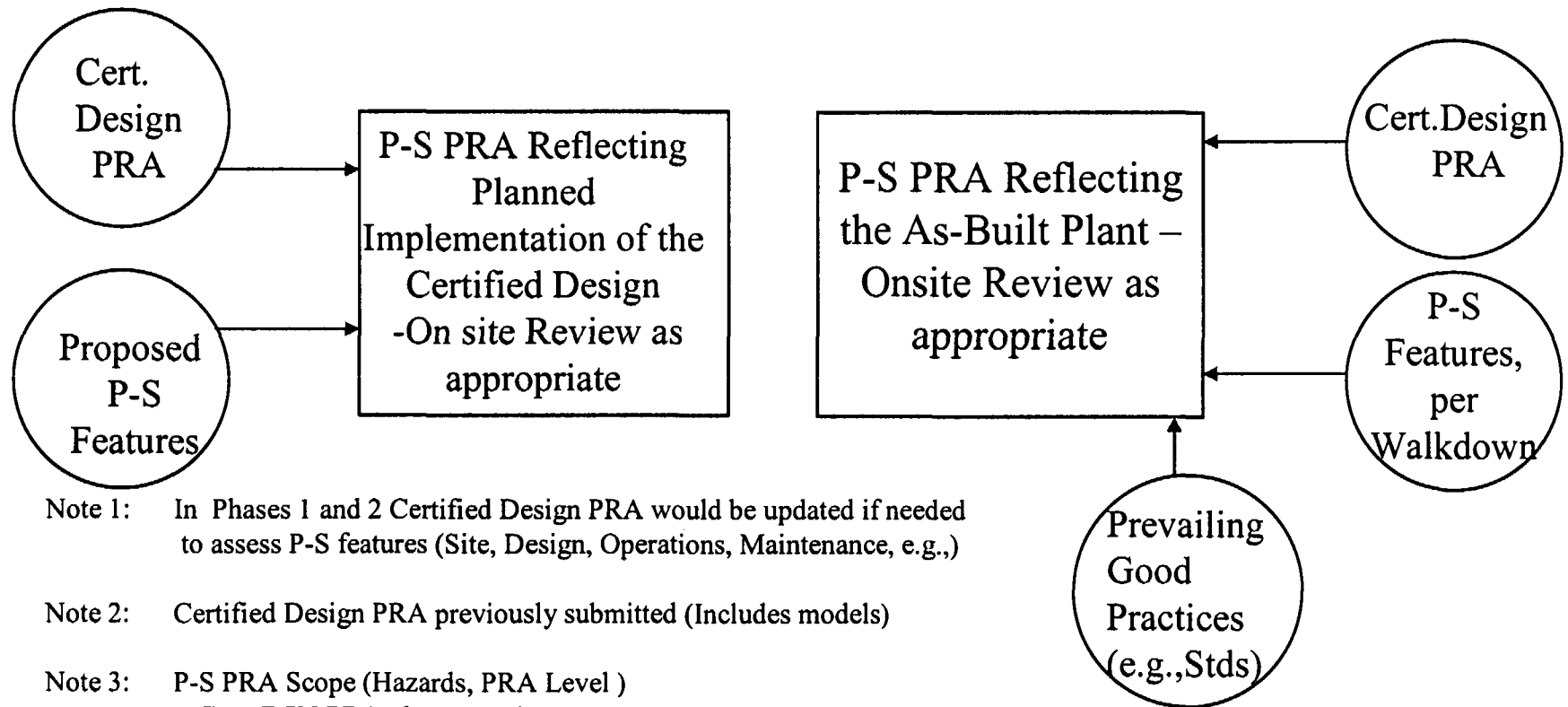
- Phase 1: Start of COLA to COLA
- Phase 2: COLA to COL Issuance
- Phase 3: COL Issuance to Initial Fuel Loading
- Phase 4: Operational Phase



Four Phases of P-S PRA

Phases 1 & 2

Phases 3 & 4



Note 1: In Phases 1 and 2 Certified Design PRA would be updated if needed to assess P-S features (Site, Design, Operations, Maintenance, e.g.,)

Note 2: Certified Design PRA previously submitted (Includes models)

Note 3: P-S PRA Scope (Hazards, PRA Level)
 ≡ Cert. DSN PRA plus Any Site Features
 not Addressed using Traditional Engineering/Bounding Approaches

Note 4: P-S PRA Quality: Design PRA Quality for Phases 1 & 2
 Phase 3 to be consistent with prevailing good practices at COL Issuance minus 6 months
 Phase 4 to be consistent with prevailing good practices as appropriate to PRA use

FSAR Chapter 19

Will provide

- Summary of plant-specific PRA scope, approach, results, insights
- Status and plans for COL Items and P-S PRA
- Assessment vs. design PRA of planned (if any) design or operational changes and site-specific topics, which could significantly affect results and conclusion
- An assessment of impacts, and mitigation
- Updated annually through Phase 3

External Events

- **For Site Specific Hazards**, as described in NEI 04-01, rev. D, site specific characteristics must be considered. If not bounded, analysis will be updated as appropriate
- **Seismic:** PRA-based margins approach as provided in SECY 93-087 was determined by NRC to be Acceptable for Certification and is Appropriate for COL
 - Provides for key Risk Insights (e.g., SSC Capability and Margins, including Uncertainty; random failures; Human Interaction)
 - Sufficient on a Plant-Specific Basis
- **Fire:** Screening approach was determined to be Acceptable for Certification
 - Provides for Key Insights
 - Consistent with the typical use of screening used in a fire PRA when fire scenarios are not risk significant
 - Expected to be Sufficient on a Plant-Specific Basis

Other Topics

- **NEI 04-01 rev E Plans**
- **NEI 06-01**
- **FSER Actions Items**
- **Severe Accident Change Process**