



Public Session with U.S. NRC

Licensee Assessment of AP1000[®] Enhanced Shield Building Design for Licensing Basis Compliance

January 22, 2014

Presentation Topics

- I. Vendor Oversight Process
- II. High-Level Summary: Shield Building Assessment Results Affecting License
 - A. Scope of Phase 1 Assessment
 - B. Assessment Results
 - C. Next Steps - Phase 2 Assessment



Vendor Oversight Process

- Joint effort (Consortium/SCE&G/SNC)
- Systematic approach
 - Focus area selection
 - Licensing basis compliance
- Completed assessments
- Next assessments
- Results of the process to date

Vendor Oversight Process

- Shield Building Phase 1 Assessment
 - Experienced team (>150 years)
 - Preparation for inspection
 - Inspection
 - Results

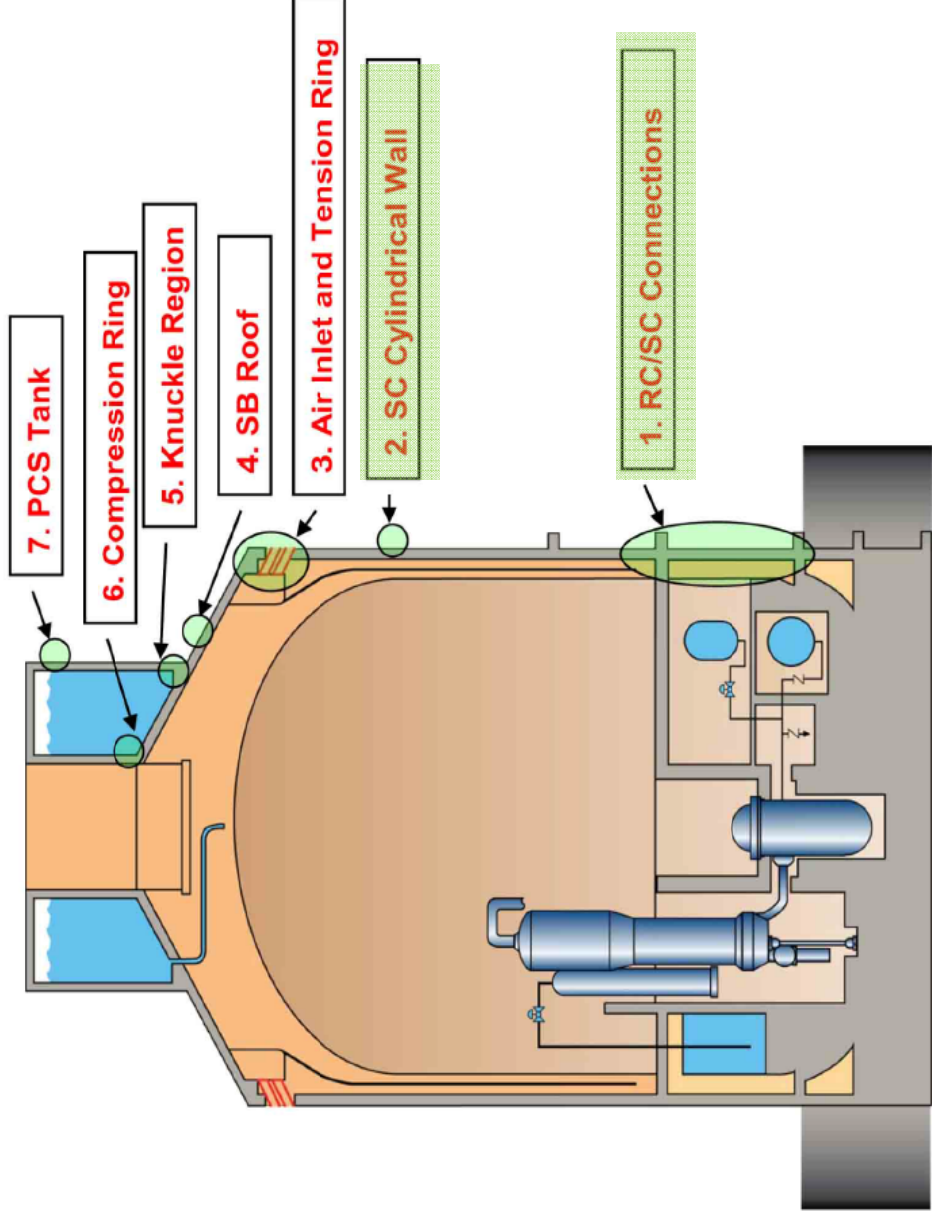


High-Level Summary

Scope of Phase 1 Assessment

- November 4-8, 2013 - Phase 1 Assessment:
 - Reinforced Concrete (RC) to Steel & Concrete Composite (SC) Mechanical Connections
 - Horizontal Connection - Elevation 100', Plant West Side
 - Vertical Connection – Elevation 100' to 149'-6"
 - Horizontal Connection – Elevation 149'-6", Plant East Side
 - Auxiliary Building Walls and Roof Connection
 - SC Cylindrical Wall Panels
 - Penetrations in SC Cylindrical Wall
- Documents Reviewed:
 - Design Calculations, Drawings, DCPs, and E&DCRs

High-Level Summary



High-Level Summary

Phase 1 Assessment Results

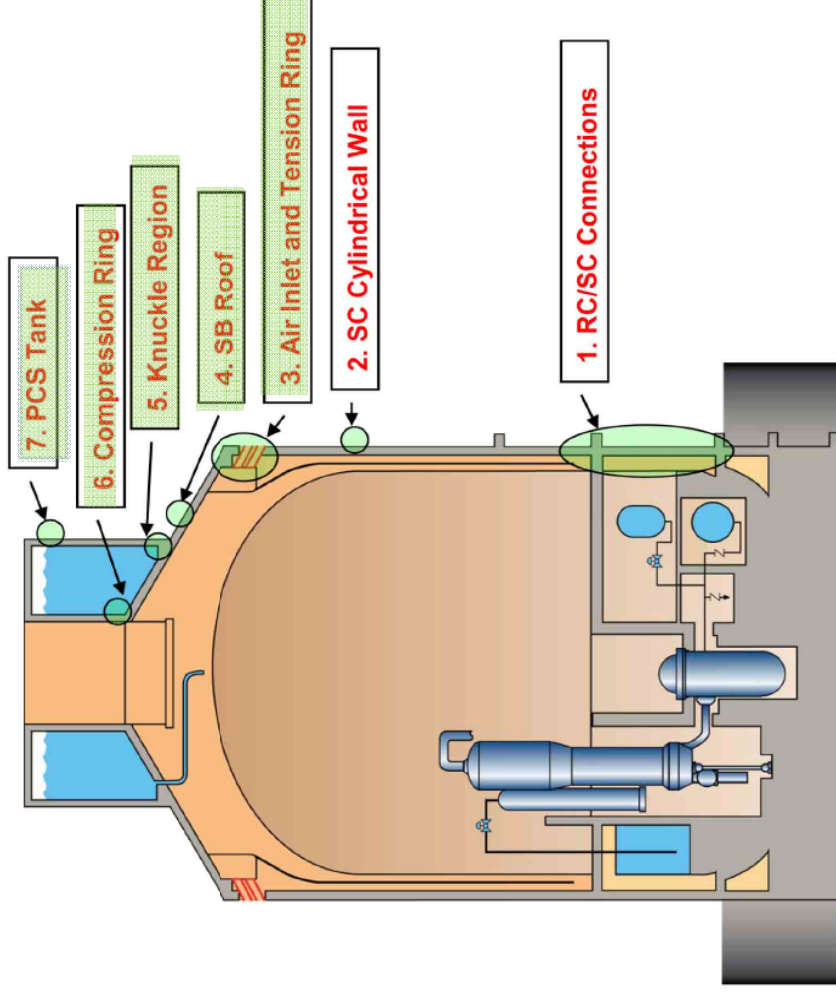
- 57 Requests for Information Generated
- 1 Licensing Basis Discrepancy
 - Incorporate in SNC LAR 13-014
- 6 Design Basis Documentation Issues
 - All Documented via Issue Reports (IRs) in Westinghouse Corrective Action Program
 - No design changes were identified



Next Steps

Phase 2 Assessment (expected 2nd Quarter 2014)

- Air Inlet and Tension Ring
- SB Roof
- Knuckle Region
- Compression Ring
- PCS Tank



Acronym List

DCP:	Design Change Proposal
E&DCR:	Engineering and Design Coordination Report
LAR:	License Amendment Request
PCS:	Passive Containment Cooling System
RC:	Reinforced Concrete
SC:	Steel & Concrete Composite