



## Public Session with U.S. NRC

# Licensee Assessment of AP1000<sup>®</sup> Enhanced Shield Building Design for Licensing Basis Compliance

January 22, 2014

# Presentation Topics

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- 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

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- 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

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



# High-Level Summary

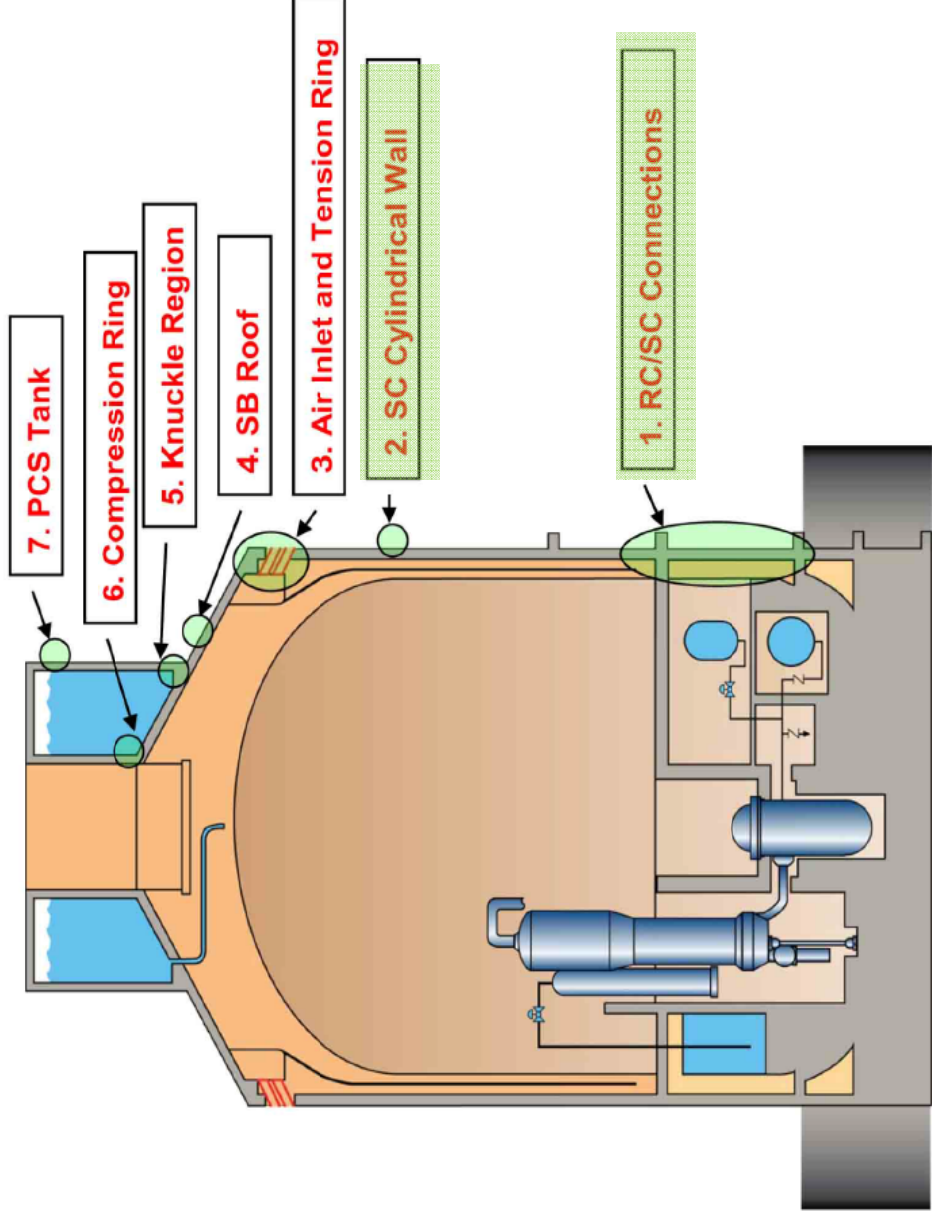
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## Scope of Phase 1 Assessment

- 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

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# High-Level Summary

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## Phase 1 Assessment Results

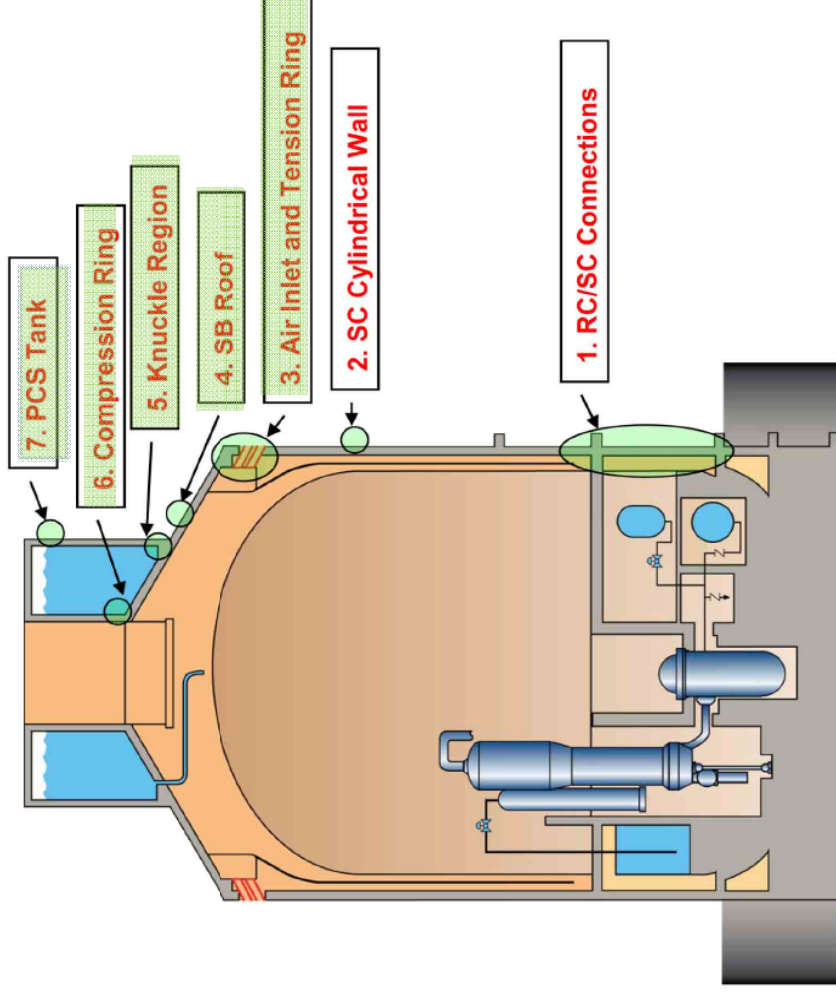
- 57 Requests for Information Generated
- 1 Licensing Basis Discrepancy
  - Incorporate in SNC LAR 13-014
- 6 Design Basis Documentation Issues
  - All Documented via Issue Reports (IRs) in Westinghouse Corrective Action Program
  - No design changes were identified

# Next Steps

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## Phase 2 Assessment (expected 2<sup>nd</sup> Quarter 2014)

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





# Acronym List

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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