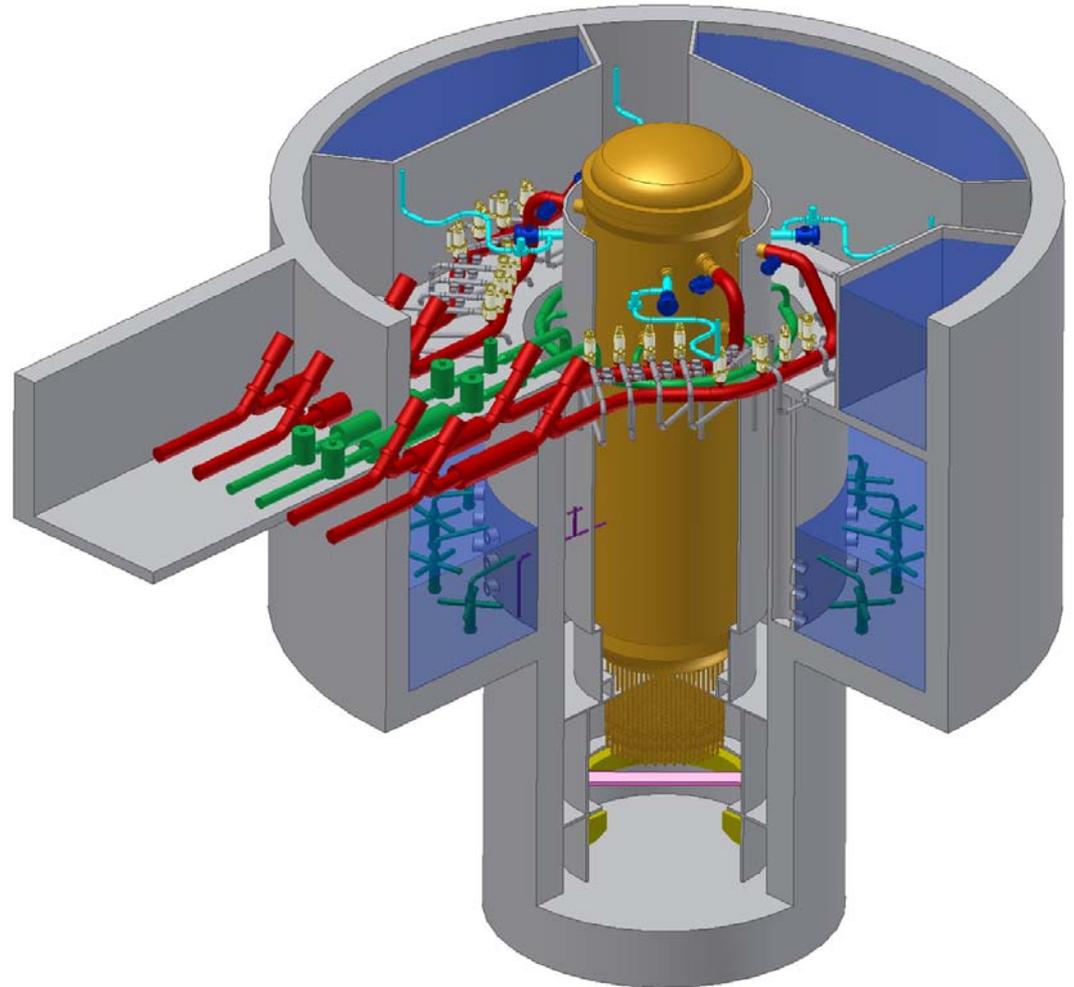


# ESBWR Technical Specifications and Tier 1



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# Technical Specifications

- Included as Chapter 16 of DCD
  - > Technical Specifications
    - Limiting Conditions of Operation (LCO)
    - Allowed Outage Times
    - Bases

# Technical Specifications (cont)

- > Base input model was from BWR 6 Standard Technical Specifications
  - NUREG-1434
- > Also relied upon ABWR Technical Specifications
  - Primarily in the area of Control and Instrumentation
- > New passive systems were addressed
  - Expert opinion
  - AP 1000 model

# Technical Specifications (cont)

- New mode included
  - > Safe Shutdown
    - Mode 4
    - Less than 215.6 C (420 F)
    - Consistent with NRC guidance for passive plants
  - > Basic assumption was that Safe Shutdown was an acceptable End State

# Technical Specifications (cont)

- Bracketed Information
  - > Unknown Final Design Values
  - > Information that needs to be verified with final design
  - > Information for which supporting information will be required
    - Increases in AOTs beyond the reference Tech Specs

# Tier 1

- Based on ABWR model
- Design Acceptance Criteria (DAC)
  - > Requested in 3 areas
    - Piping
    - Control and Instrumentation
    - Human Factors Engineering

# Tier 1 (cont)

- Radiation Protection

- > GE's view is that this is not a DAC

- It is a non-system based ITAAC

- GE amenable to revising to clarify intent

- Final Resolution needs to factor in use of GA type drawings

- Addressed Later

# Tier 1 (cont)

- Adjustments to text likely
  - > Basic System Configuration will be revised to follow Westinghouse approach
  - > Other adjustments to tighten language
    - Remove ambiguity
    - Incorporate Industry Lesson Learned
    - Align the performance with the expected construction activities

# Tier 1 (cont)

- Significant Issue

- > Need to resolve the use of General Arrangement (GA) type drawings in Tier 1 and ITAAC
- > GAs provide clear demarcation of parameters being verified