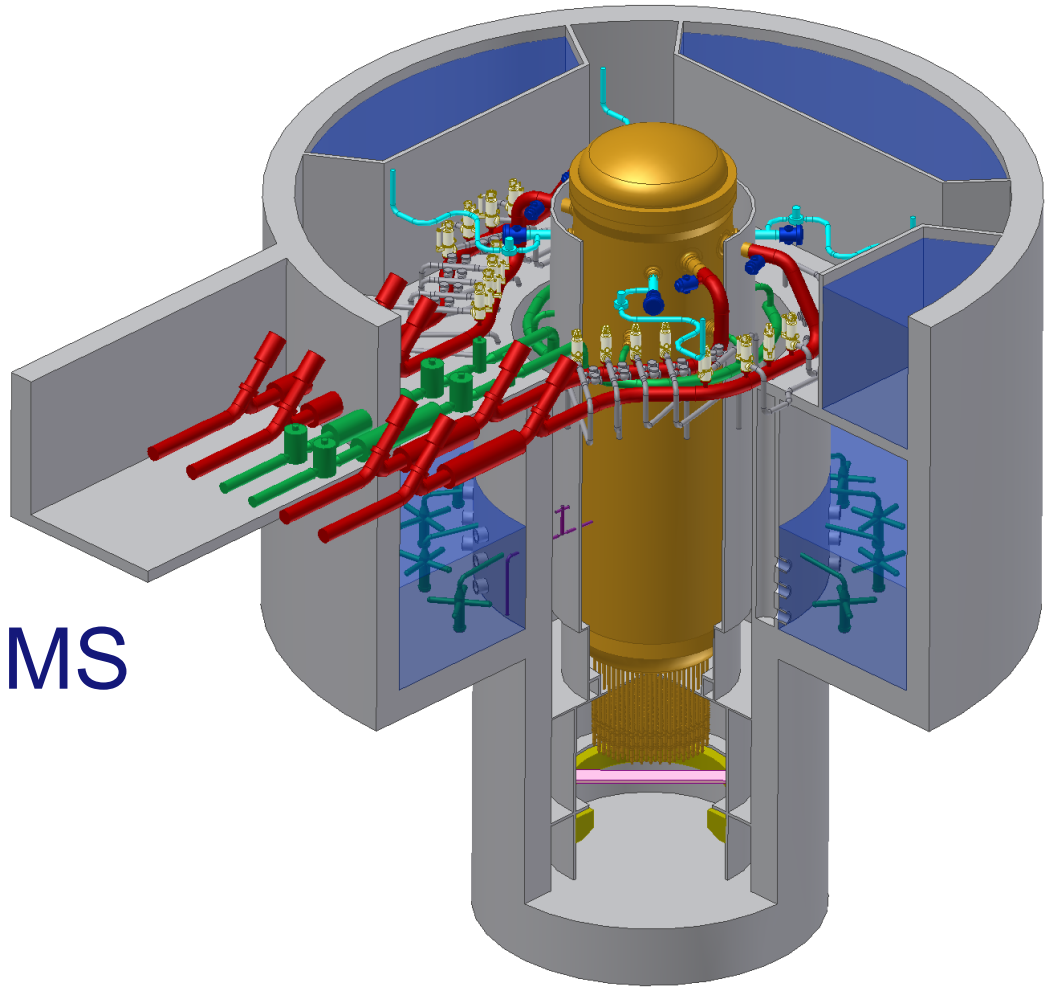
ESBWR

DCWG Meeting



COL HOLDER ITEMS
February 11, 2009

Opening Remarks

Purpose:

- Discuss the approach for dispositioning COL Holder Items for DCD Rev. 6
- Obtain NRC feedback regarding the proposed approach

Background:

- ESBWR Design Control Document, Rev. 5 was submitted by GEH letter MFN 08-487 (June 1, 2008)

COL Holder Items

- DCD Rev. 5 contains 20 COL Holder Items
  - 2 have been proposed for deletion in DCD Rev. 6 based on RAI responses
  - 1 currently proposed to be converted to COL Applicant Item
  - 17 other COL Holder Items to be dispositioned

Dispositioned COL Holder Items

- Two COL Holder Items that were deleted:
  - 6.2-1-H: Pipe Length from Containment to Inboard/Outboard Isolation Valve (RAI 6.2-157 S02)
  - 12.3-3-H: Controlled Access (RAI 12.4-38)
- One COL Holder Item proposed to be converted to COL Applicant Item is:
  - 16.0-2-H: COL Holder Bracketed Items (TS)

Proposed Approach – Remaining COL Holder Items

- Proposed approach to disposition each remaining COL Holder Item considers:
  - The guidance in RG 1.206, Section C.III.4
    - ITAAC
    - License Condition (e.g., implementation of operational programs)
    - Provide information in COLA to support a licensing decision with applicable milestone commitments
  - The disposition described in the NAPS COLA, Rev 1, for the respective COL item

Example 1 of Proposed Dispositions

Item No.	Current DCD COL Holder Item	DCD Section	NAPS U3 COLA Text	Disposition of DCD COLA Item
3.9.9-2-H	**ASME Class 2 or 3 or Quality Group D Components with 60 year Design Life** For the piping segments identified in Subsection 3.9.3.1 that are subject to loadings that could result in thermal or dynamic fatigue, the COL Holder shall provide the analyses as required by the ASME Code, Subsection NB.	3.9.3.1	The piping stress reports identified in this DCD section will be completed within six months of completion of ITAAC Table 3.1-1. The FSAR will be revised as necessary in a subsequent update to address the results of this analysis.	Rewrite DCD COL Item: The COL applicant shall provide a milestone for completing the required pipe stress reports, per ASME Code, Subsection NB, for piping segments identified in Subsection 3.9.3.1 that are subject to loadings that could result in thermal or dynamic fatigue.

Example 2 of Proposed Dispositions

Item No.	Current DCD COL Holder Item	DCD Section	NAPS U3 COLA Text	Disposition of DCD COLA Item
9.2.5-1-H	Post 7-Day Makeup to Ultimate Heat Sink (UHS) The COL Holder will develop procedures to supply makeup water 7 days after an accident (Subsection 9.2.5).	9.2.5	Procedures that identify and prioritize available makeup sources seven days after an accident, and provide instructions for establishing necessary connections, will be developed in accordance with the procedure development milestone in Section 13.5.	Rewrite the DCD COL Item: The COL applicant shall include in its operating procedure development program: - Procedures that identify and prioritize available makeup sources seven days after an accident, and provide instructions for establishing necessary connections - Milestone for completing this category of operating procedures.

Example 3 of Proposed Dispositions

Item No.	Current DCD COL Holder Item	DCD Section	NAPS U3 COLA Text	Disposition of DCD COLA Item
14.2-6-H	Site Specific Test Procedures Approved test procedures satisfying the commitments of this chapter are to be made available to the NRC approximately 60 days prior to their intended use for preoperational tests and not less than 60 days prior to scheduled fuel loading for power ascension tests (Subsection 14.2.9).	14.2.9	Specific testing to be performed and the applicable acceptance criteria for each preoperational and startup test are documented in test procedures to be made available to the NRC approximately 60 days prior to their intended use for preoperational tests, and not less than 60 days prior to scheduled fuel load for initial startup tests. Site-specific preoperational tests are in accordance with the system specifications and associated equipment specifications for equipment in those systems provided by the licensee that are not part of the standard plant described in DCD Section 14.2.8. The tests demonstrate that the installed equipment and systems perform within the limits of these specifications.	Rewrite the DCD COL Item: The COL applicant shall provide milestones for making available to the NRC approved test procedures satisfying the commitments in this chapter. [Note that similar text could be used for DCD COL item 14.2-3-H]

Example 4 of Proposed Dispositions

Item No.	Current DCD COL Holder Item	DCD Section	NAPS U3 COLA Text	Disposition of DCD COLA Item
19.2.6-1-H	Seismic High Confidence Low Probability of Failure Margins The COL Holder referencing the ESBWR certified design shall compare the as-built SSC HCLPFs to those assumed in the ESBWR seismic margin analysis shown in Table 19.2-4. Deviations from the HCLPF values or other assumptions in the seismic margins evaluation shall be analyzed to determine if any new vulnerabilities have been introduced. (Subsection 19.2.3.2.4)	19.2.3.2.4	As-built SSC High Confidence Low Probability of Failure (HCLPF)s will be compared to those assumed in the ESBWR seismic margin analysis shown in DCD Table 19.2-4. Deviations from the HCLPF values or other assumptions in the seismic margins evaluation will be analyzed to determine if any new vulnerabilities have been introduced. This comparison and analysis will be completed prior to fuel load.	Rewrite the DCD COL Item: The COL applicant shall identify a milestone for completing a comparison of the as-built SSC High Confidence Low Probability of Failure (HCLPF)s to those assumed in the ESBWR seismic margin analysis shown in DCD Table 19.2-4. Deviations from the HCLPF values or other assumptions in the seismic margins evaluation shall be analyzed to determine if any new vulnerabilities have been introduced.

Questions?