

PMVogtleCOLPEm Resource

From: Coffin, Stephanie
Sent: Wednesday, April 29, 2009 10:08 PM
To: BelCol Resource; HarrisCOL Resource; LevyCOL Resource; SummerCOL Resource; VogtleCOL Resource
Subject: FW: ACTION - draft ACRS slides
Attachments: Presentation to ACRS May 2009.ppt

From: Stephanie Coffin
Sent: Wednesday, April 29, 2009 7:46 AM
To: Richard Grumbir; pshastings@duke-energy.com
Cc: Eileen McKenna
Subject: ACTION - draft ACRS slides

Peter and Rich:

Attached please find a copy of draft slides for upcoming May ACRS meeting.

- Please let me know who will be presenting for industry.
- Please share your draft slides soon so that we can coordinate to ensure a productive and efficient ACRS meeting.
- ACRS staff would appreciate having 35 copies available the day prior to the meeting.
- ACRS staff also requested that we bring or send them the presentation electronically so that they can prepare the A/V equipment.
- We will be presenting to the main committee. The members are on the website at: <http://www.nrc.gov/about-nrc/regulatory/advisory/acrs/membership.html>

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From: Coffin, Stephanie

Created By: Stephanie.Coffin@nrc.gov

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Overview of the AP1000 Design Center Reviews Presentation to the ACRS

Eileen McKenna

Stephanie Coffin

May 7, 2009



Briefing Purpose and Agenda

- Orientation for future Committee review activities for AP1000 design certification amendment (DCA) and reference combined license (RCOL) application
- Topic - Presenter:
 - DCA application – Westinghouse
 - Reference COL application – NuStart and TVA
 - DCA review – NRC staff
 - Reference COL review – NRC staff

Overview of Design Center

- AP1000 Design Certification amendment request under review
- 6 COL applications under review, each for 2 units, additional application expected in June
- COL applications reference AP1000 design, as being amended
- RCOL/SCOL approach being used for standard content

AP1000 Design Certification Amendment

- Current AP1000 Design Certification - Appendix D to 10 CFR Part 52 (Revision 15 to the AP1000 Design Control Document (DCD)) – effective 2006
- Safety Evaluation Report – NUREG-1793, “Final Safety Evaluation Report Related to Certification of the AP1000 Design”
- Post-certification Activities
 - NuStart Submittal of over 100 Technical Reports (TRs) beginning in 2006
 - Staff Review of TRs – which address aspects of AP1000 Design and COL information items (in support of specific DCD changes)

Application for Design Certification Amendment

- Application of May 26, 2007 based upon Revision 16 to the AP1000 DCD
- Reference to 10 CFR Part 52, Section 52.63 – Finality of Standard Design Certifications
- Submittal of Revision 17 of the AP1000 DCD – September 22, 2008
- RAI responses leading to DCD changes

Review of the AP1000 DCA

- Six phase review schedule
- Review is focused on changes proposed by Westinghouse, using SRP-based review
- Issuance of Individual Chapters in Phase 2 (SER with Open Items [SER/OIs]) to become a supplement to NUREG-1793
- Presentation of chapters at ACRS meetings paired with same chapter from RCOL application
- SC Meetings in July, October, November (and early 2010 if needed)

Current DCA Review Schedule

- April 3, 2009 NRC Schedule Letter
- Last chapter of SER/OIs - 01/2010
- Completed Final SER – 12/2010
- Rulemaking – 08/2011

Key Review Issues - DCA

- Structural design and other seismic analyses
- Containment Sump changes
- Control Room Ventilation System revision
- Progress on DAC matters (I&C, human factors, piping)
- Several other changes to maximize standardization

Review of the RCOL Application

- Six phase review schedule
- Review is focused on resolution of COL Items from DCA, operational programs, site-specific aspects
- Issuance of Individual Chapters in Phase 2 (SER with Open Items [SER/OIs]), following DCA chapters
- Presentation of chapters at ACRS meetings paired with same chapter from DCA application
- SC Meetings in July, October, November (and early 2010 if needed)

Current RCOL Review Schedule

- Phase 1 – complete
- Phase 2 – revising based on April 2009 DCA review schedule
- Phase 3 – same meetings as for DCA
- Phases 4, 5, 6 -
 - Revising based on April 2009 DCA schedule
 - Incorporating change in the RCOL applicant for the design center (TVA/Bellefonte to Southern Nuclear/Vogtle)

Key Review Issues - RCOL

- Demonstration that AP1000 design is suitable for the site
- Evaluation of site safety issues, such as:
 - Meteorology, hydrology, seismology, geology, etc.
 - Emergency plans
- Evaluation of operational programs, such as:
 - ISI and IST programs
 - Quality assurance program
 - Radiation protection program
- Evaluation of COL Item resolution, such as:
 - Containment cleanliness program
 - Initial test program
 - Conceptual design information (e.g., cooling towers, raw water system)

Structure of SE/OI for RCOL

- Incorporate by reference sections
 - Staff makes finding that IBR is appropriate
 - Refers to NUREG supplement
- Standard COL content
 - Staff evaluation of RCOL application will apply to all SCOL applications, as appropriate
- Site-specific COL content
 - Staff evaluation of RCOL application applies only to TVA/Bellefonte

RCOL Applicant Transition

- Entire SE/OI issued based on the TVA/Bellefonte application
- Southern/Vogtle responds to all OIs related to standard content
- Southern/Vogtle responds to all outstanding site-specific issues
- NRC staff evaluates responses and develops Advanced Final SER with no Open Items based on Southern Nuclear application

Preview of July 2009 ACRS SC Meeting

- DCA and RCOL application and evaluation presented in an integrated manner
- Westinghouse, TVA, NRC staff presentations
- Focus of presentations will be on key review areas and open items
- Chapters to be presented will be issued at least 30 days prior to meeting
- ACRS feedback on areas of interest appreciated