

May 7, 2008

PARTICIPANTS: AP1000 and ESBWR Design Centered Working Groups

SUBJECT: SUMMARY OF THE APRIL 10, 2008, MEETING TO DISCUSS  
COMBINED LICENSE APPLICATION ISSUES

On April 10, 2008, the U.S. Nuclear Regulatory Commission (NRC) held a public meeting at NRC Headquarters, 11555 Rockville Pike, Rockville, Maryland, with representatives of the AP1000 and economic simplified boiling water reactor (ESBWR) Design-Centered Working Groups (DCWGs). The purpose of the meeting was to discuss issues and activities associated with combined license (COL) applications. The meeting agenda is provided as Enclosure 1 and attendees are identified in Enclosure 2.

This meeting summary, the meeting notice, and the presentation materials distributed at the meeting are available through the Agencywide Documents Access and Management System (ADAMS) as a package at Accession Number **ML081200871**. ADAMS is the system that provides text and image files of NRC's public documents. Documents are available electronically at the NRC's Electronic Reading Room at <http://www.nrc.gov/reading-rm/adams.html>. If you do not have access to ADAMS or have problems accessing the documents located in ADAMS, contact the NRC Public Document Room (PDR) staff at 1-800-397-4209, 301-415-4737, or [pdr@nrc.gov](mailto:pdr@nrc.gov).

This public meeting was the latest in a series of meetings with both the AP1000 and ESBWR DCWGs to discuss COL-related topics of mutual interest to the staff and industry. The topics are summarized in the following paragraphs.

#### ESBWR Technical Specifications

DCWG representatives presented an approach to address completeness of the technical specifications provided in the ESBWR Design Control Document (DCD) and COL applications. The issue is how to appropriately address technical specification parameter values that cannot be identified by the applicant prior to COL issuance. Following the DCWG presentation, there was limited discussion by attendees. The presentation is available at ML081020679.

#### ESBWR Turbine Missile Analysis

The staff presented a summary of 1) the requirements pertaining to protection of structures, systems, and components from potential missiles resulting from turbine rotor failure and 2) the associated information necessary to be provided in the DCD or COL application for the staff's reasonable assurance finding. Following the staff's presentation, DCWG representatives presented their approach for addressing the requirements and meeting the staff's information needs. The staff presentation is available at ML081020848 and the DCWG presentation at ML081020865.

Discussion ensued following the presentations. Two actions were identified as follows:

- 1) Staff is to determine whether the analysis of impact of potential missiles from a proposed new plant is the responsibility of the COL applicant or the existing operating plant(s); and
- 2) Staff is to determine whether information regarding turbine missile analysis is appropriate for inclusion as Tier 1.

#### ESBWR Pressure-Temperature Limits

The staff presented a summary of 1) the requirements pertaining to pressure-temperature limit curves for the reactor vessel and 2) the associated information necessary to be provided, either in the DCD or the COL applications, for the staff to make a reasonable assurance finding. The presentation is available at ML081120166.

Discussion followed the staff's presentation. One action was identified: Staff is to coordinate a technical teleconference with DCWG representatives as follow-up to the meeting presentation and discussion.

#### ESBWR Weld Accessibility – Inservice Inspection

The staff presented a summary of 1) the requirements pertaining to weld accessibility for in-service inspections and 2) staff concerns regarding weld accessibility and the use of radiography. The presentation is available at ML081120194. Discussion ensued following the presentation.

#### ESBWR Design Acceptance Criteria

DCWG representatives presented their approach to address design acceptance criteria (DAC). The presentation focused on technical and schedule issues related to instrumentation and control and human factors engineering and, to a lesser extent, on piping. The presentation, available at ML081020639, engendered extensive discussion among the staff and DCWG representatives.

The following actions were identified:

- 1) Staff and DCWG representatives are to continue on-going interactions to identify and resolve issues related to DAC;
- 2) Staff is to conduct a workshop with industry regarding instrumentation and control DAC technical issues (scheduled date is April 22, 2008).

#### AP1000 R-COLA and S-COLA Changes and Reviews

DCWG representatives gave a presentation on coordination of AP1000 R-COL and S-COL changes and reviews. The presentation focused on documents used by Westinghouse (TR-134) and TVA (Errata Report) to track the changes to be made in future revisions of the DC amendment or the R-COL. The S-COLs are expected to conform to the changes made in the

Errata Report that are standard. The presentation also addressed the NRC's electronic RAI process and standard content in the SER's. The presentation is available at ML081020018.

The following action items were identified:

- 1) Several of the action items dealt with the standardization of the S-COL. Industry and staff will have future interactions to discuss the following questions.
  - How to ensure S-COLs include all standard issues
  - How/When to deploy Standard RAIs in S-COLs
  - How SER sections on standard content will be identified
  - How standard content SER sections are incorporated into the S-COL SER
- 2) One additional action item dealt with the submittal of the Errata Report. Industry requests feedback from staff on COL Errata Report format and content.

#### AP1000 NRC Review Schedule – DCD Amendment and R-COLA

NRC staff gave a presentation on the schedule and resources projected for the AP1000 COL reviews. The presentation included a Gantt chart showing the schedules for the Bellefonte R-COL review and the Lee S-COL review. The projected person-hours to review each chapter for Phases 1 and 2 of the safety review were also included. The purpose for sharing this information was to provide industry with the current best estimates of resources required for R-COL and S-COL reviews so that it can align resources to support an effective and efficient review. It also provides details of the critical schedule drivers to enhance a mutual understanding between industry and staff. This presentation was well received by industry. There were several questions and comments that were developed into a list of action items. The presentation is available at ML081020012.

The following action items were identified:

- 1) Industry will review the contents of the presentation and develop a list of information that would be useful for staff to place on the external website e.g., schedule information, measures or formats.
- 2) NRC staff will facilitate a future interaction with the AP 1000 DCWG to address specific questions that industry has concerning schedule and resources. Some of the questions raised in the meeting were:
  - Are OGC hours fee billable
  - Is staff willing to alert applicants when chapter end dates move even when it does not affect the overall schedule
  - Hours for Chapter 2 (Site Characteristics), Chapter 3 (Design of SSC's),
  - Chapter 13 (Conduct of Operations), and Chapter 16 (Technical Specifications) seem high. Industry would like to understand why.

- Where are the hours for the reviews of Part 7 (Departures and Exemptions) and Part 10 (License Conditions and ITAAC) captured
- Can staff provide the same level of detail for the Design Certification Amendment review
- Can staff provide the same level of detail for the Environmental Review

The AP1000 DCWG should provide any additional questions to NRC staff.

Members of the public were in attendance. No public meeting feedback forms were received. Please direct any inquiries to either Tom Kevern at 301.415.0224, [Thomas.Kevern@nrc.gov](mailto:Thomas.Kevern@nrc.gov), or Jan Mazza at 301.415.0498, [Jan.Mazza@nrc.gov](mailto:Jan.Mazza@nrc.gov).

*/RA/*

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52-017, 52-018, 52-019, 52-022,  
52-023, 52-024

Project Nos.: 745, 755, 738, 740, 742, 743,  
756, 763

Enclosures:

1. Agenda
2. List of Attendees

cc w/encl: See next page

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**Agenda for Public Meeting  
AP1000 and ESBWR Design-Centered Working Groups (DCWGs)  
Regarding COL Activities  
April 10, 2008  
U.S. NRC, Two White Flint North, Auditorium**

<b>Time</b>	<b>Topic</b>	
8:00 a.m.	Introductory Remarks	NRC/DCWG
8:15 a.m.	ESBWR Technical Topics: <ul style="list-style-type: none"> <li>▪ Bracketed information in ESBWR Technical Specifications</li> <li>▪ ESBWR turbine missile analysis</li> <li>▪ Pressure – temperature limits (SRP Section 5.3.2)</li> <li>▪ ISI weld accessibility</li> <li>▪ Design Acceptance Criteria</li> </ul>	DCWG/NRC
11:30 a.m.	Lunch Break	All
12:30 p.m.	AP1000 Topics: <ul style="list-style-type: none"> <li>▪ Coordination of AP1000 R-COLA and S-COLA changes and reviews</li> <li>▪ AP1000 review schedule – DCD amendment and R-COLA (including key implications on S-COLAs)</li> </ul>	DCWG/NRC
4:30 p.m.	Review action items and future meeting topics	NRC/DCWG
5:00 p.m.	Opportunity for public comment	NRC
5:10 p.m.	Adjourn	NRC

**Attendance List**

**AP-1000 & ESBWR DCWG Meeting**

**April 10, 2008**

**U.S. Nuclear Regulatory Commission, Rockville, MD**

Name	Organization
Tom Kevern	NRC/NRO/DNRL
Jan Mazza	NRC/NRO/DNRL
Neil Haggerty	NuStart
Maspur Khan	Bechtel
Rick Wachowiak	GEH
Gina Borsh	Dominion
Mark Loeffler	GEH
Stephen Kimwa	GEH
T. R. Tjader	NRC/NRO/DCIP
Steve Frantz	MLB
Eddie R. Grant	NuStart
Russ Bell	NEI
Peter Hastings	NuStart
Jean-Picm Berger	EDF
Jennifer Dixon-Herrity	NRC/NRO/DE
Dennis Galvin	NRC/NRO/DNRL
Deann Raleigh	Advantage, Scientech
Wayne Marquino	GEH
Kimberly Corp	NRC/NRO/DE
Eileen McKenna	NRC/NRO/DNRL
Ian Jung	NRC/NRO/DE
Robert M. Weisman	NRC/OGC
Michael Miernicki	NRC/NRO/DNRL
Tanya Simms	NRC/NRO/DNRL
Ravi Joshi	NRC/NRO/DNRL
Falk Kantor	NRC/NSIR/DPR
Larry Burkhart	NRC/NRO/DNRL
Mark Melricoff	NRC/NRO/DSRA
Cal Reid	Bechtel

Name	Organization
Robert Atkinson	Dominion
Chuck Plere	Southern Nuclear
Rob Sisk	Westinghouse
Guy Cesare	NuStart
David Distel	Exelon
Amy M. Monroe	SCE&G
Robert Davis	NRC/NRO/DE
David Lange	MNES
Leslie Perkins	NRC/NRO/DNRL
Joseph DeMarshall	NRC/NRO/DCP
Kimberly Gruss	NRC/NRO/DE
Patricia Campbell	GEH
Robert Hall	GEH
Neil Perry	NRC
Joe Ashcraft	NRC/NRO/DE
Dan Williamson	GEH
Dinesh Taneja	NRC/NRO/DE
Peter Smith	Detroit Edison
Norm Peterson	Detroit Edison
Craig Harbuck	NRC/NRO/DCIP
Don A. Johnson	NRC/NSIR/DPR
Bob Evans	Enercon
Rich Grumbir	NuStart
Jerry Wilson	NRC/NRO/DNRL
Nan Giles	NRC/NRO
Donald Lindgren	Westinghouse
Mike Jonzen	AREVA
Charles Bagnal	GEH
Tom Williamson	Entergy
Thomas Hicks	NuStart
George Zinke	Entergy/NuStart
Eric Oesterle	NRC/NRO/DNRL
Hulbert Li	NRC/NRO/DE
Bob Kitchen	Progress Energy
Rich Stattel	GEH
Mila Herron	GEH

Name	Organization
Mike Withrow	Entergy
Mark Gib	Entergy
Phillip Ray	TVA
J. Bongarra	NRC
T. Slavenia	Enercon
Bob Hirmcimpou	NuStart
David Piepmeyer	GEH
Michael Spencer	NRC/OGC
Tim	(Could not read)
Geary Mizuno	NRC/OGC
Laura Dudes	NRC/NRO/DE
Joe Sebrosky	NRC/NRO/DNRL
Leroy Hardin	NRC/NRO/DE
Billy Gleaves	NRC/NRO/DNRL
David Lange	MNES
Tim Durkin	Energetics
Joe Mihalcik	UniStar Nuclear Energy
Gabe Salamon	Enercon
Phyllis Clark	NRC/NRO/DNRL
Robert Moody	NRC/NSIR/DPR
Hien Le	NRC/NRO/DCIP
Richard S. Clement	NRC/NRO/DCIP
Tim Frye	NRC/NRO/DCIP
Shelley Kowkabany	Enercon
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Christopher Jackson	NRC/NRO/DSRA
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(Revised 04/28/2008)

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