

September 15, 2007

PARTICIPANTS: AP1000 and ESBWR Design-Centered Working Groups

SUBJECT: SUMMARY OF THE JULY 24 AND 25, 2007 MEETING TO DISCUSS
PRE-COMBINED LICENSE APPLICATION ISSUES

On July 24 and 25, 2007, 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 ESBWR Design-Centered Working Groups (DCWGs). The purpose of the meeting was to discuss pre-application issues and activities associated with development of combined license (COL) applications by the nuclear industry. The meeting agenda is provided as Enclosure 1 and attendees are identified in Enclosure 2.

This meeting summary 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 ML072110412. 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.

This two-day public meeting was the latest in a series of meetings with both the AP1000 and ESBWR DCWGs to discuss pre-application and COL-related topics of interest. As identified in the agenda, both NRC staff and DCWG representatives presented information on a number of topics. The topics are summarized in the following paragraphs.

Electronic Submittal of COL Applications

The staff has completed developing an agency process for the acceptance of COL applications (COLAs) submitted by electronic means (i.e., DVD or CD files). The staff presented an update of the process and clarified the guidance regarding COLA electronic submittals by applicants. DCWG representatives expressed support for the electronic submittal process. It is anticipated that all COLAs will be submitted by this process.

COLA Acceptance Reviews

The staff presented an overview of the NRC's acceptance review process for COLAs. The goal of the acceptance review is to determine whether the applicant has provided information required by regulations, assess the quality of the application, and develop an application-specific review plan and schedule. The review will address COLA completeness and technical sufficiency and generally be completed within 60 calendar days. The staff anticipates frequent interactions with the applicant during the review. The staff is developing an office instruction that will be publically available. The staff responded to numerous questions from DCWG representatives and emphasized the staff's expectation that the quality and completeness of submitted COLAs must be sufficient to lead to staff acceptance.

Licensing Program Plan

The staff presented an update of the NRC's Licensing Program Plan (LPP) - the computerized process to identify and schedule the agency's activities associated with COLA review/evaluation leading to COL issuance. The presentation focused on addressing comments submitted by DCWG representatives following the staff's presentation on this topic at the June 2007, DCWG public meeting. Presentation topics included scheduling assumptions, interrelationships between safety and environmental reviews, requests for additional information (RAIs), limited work authorizations (LWAs), and use of NRC contractors. For illustrative purposes, the staff provided a generic schedule for a reference COLA for the overall timeframe from COLA acceptance to COL issuance. The staff responded to numerous questions from attendees and identified that the staff will be scheduling applicant-specific meetings in order to develop COLA-specific detailed schedules.

Quality Assurance Pre-application Audits

The staff presented an update focused on addressing comments raised by DCWG representatives during the staff's presentation on this topic at the June 2007, DCWG public meeting. The staff will conduct an audit of each COL applicant, prior to COLA submittal, to verify the suitability of quality assurance processes applied to COLA development. The audits are expected to enhance the efficiency and effectiveness of COLA acceptance reviews and provide insights to the staff regarding COLA completeness and accuracy. Audit results will be documented in staff correspondence to the respective COL applicants.

General Design Criterion (GDC) 17

The staff presented its draft position regarding GDC 17 that focused on addressing comments raised by DCWG representatives during the staff's presentation on this topic at the June 2007, DCWG public meeting. The staff clarified its expectation that a COLA referencing the AP1000 design should include a limited failure modes analysis related to the offsite electric power system. The staff and AP1000 DCWG representatives engaged in contentious discussion without achieving closure. The staff agreed to review the draft position and address this topic at a future meeting.

Radioactive Waste Programs

As follow-up to a public meeting with the Nuclear Energy Institute (NEI) on July 11, 2007, the staff identified that one option for a COLA to adequately address the radioactive waste programs identified in Chapter 11 of the Final Safety Analysis Report (FSAR) is by means of an industry-standard topical report and program template. AP1000 and ESBWR representatives stated they endorsed this option and would support development of an NEI topical report to address these programs. Details of the topical report content and schedule will be addressed at future NEI public meetings.

Probabilistic Risk Assessment (PRA)

The staff discussed the PRA-related requirements and guidance applicable to design certifications and COLAs. The presentation clarified the final rule (10 CFR Part 52) requirements pertaining to PRA and focused on addressing industry feedback from the NEI

public meeting on July 19, 2007. The staff provided resolution to a number of industry comments and committed to providing further update at the NEI public meeting scheduled for August 8 and 9, 2007. The staff is considering issuance of a Regulatory Information Summary (RIS) to document the consolidated PRA clarifications.

ESBWR COL Holder Items

The staff and ESBWR DCWG representatives discussed several items identified in the ESBWR design control document, currently undergoing staff review for design certification, that are to be addressed either in the COLA (i.e., "applicant items") or following issuance of the COL (i.e., "holder items"). Regarding the item related to protective coatings and organic materials used within the containment building, the staff provided positive feedback regarding the DCWG-proposed approach. Regarding the items related to inservice inspection (ISI) and inservice testing (IST) programs, the staff presented a summary of the ISI/IST regulatory requirements, applicable Staff Requirements Memoranda, and guidance and identified its expectations for ISI/IST information to be included in a COLA. DCWG representatives questioned whether the extent and level of detail of information identified by the staff was needed in the COLA or, alternatively, could be made available following COL issuance. The staff and DCWG representatives engaged in an extended discussion regarding ISI/IST information to be included in the COLA and did not achieve issue resolution. The staff committed to working with DCWG representatives for resolution of the issue in the near future and to further discuss the issue at the NEI public meeting scheduled for August 8 and 9, 2007.

AP1000 COLA and FSAR Content

AP1000 DCWG representatives presented a detailed update of the organization and structure of the parts of a COLA and the chapters of a FSAR. The presentation emphasized the extent of COLA and FSAR standardization. The presentation included a chapter-by-chapter discussion of the FSAR and identified, at the section level, whether the information was identical to that in the corresponding section of the design control document (i.e., "incorporated by reference"), identical to that in the corresponding section of the reference-COLA (i.e., "standard"), or applicant-specific. The staff provided complimentary comments and noted that the extent of standardization is supportive of the agency's design-centered review approach and will assist the staff in COLA reviews.

Action Item Review

The staff and DCWG representatives discussed the topics and issues remaining open from prior DCWG meetings. The staff noted that all topics/issues open from prior meetings had been addressed during the presentations of this meeting. The staff agreed to provide the following: 1) additional information regarding COLA review activities and schedule; 2) clarification regarding SUNSI, SGI, and technical specifications to be included in COLA; 3) clarification of site-specific ITAAC; 4) follow-on interactions with industry regarding staff expectations for information to be included in a COLA pertaining to GDC 17; 5) follow-on interactions with industry to clarify a staff position regarding ISI/IST information to be included in a COLA; 6) follow-on interactions with industry regarding a topical report for radioactive waste programs; and, 7) follow-on interactions with industry to address PRA issues.

It is anticipated that several of these issues will be addressed in currently-planned public meetings prior to the next DCWG meeting scheduled for September 11 and 12, 2007.

Subsequent DCWG meetings are planned for November 1 and 2, and December 13 and 14, 2007 at NRC Headquarters.

Members of the public attended this DCWG meeting and one public meeting feedback form was received. Please direct any inquiries to me at 301-415-0224 or tak@nrc.gov.

/RA/

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Project Nos. 738, 740, 741, 742, 743, 744, 745, 755, 756

Enclosures:
As stated

cc w/encl: See next page

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**Agenda for Public Meeting
Between the AP1000 and ESBWR Design-Centered Working Groups (DCWGs)
and the NRC
Regarding Pre-COL Activities**

**July 24, 2007
9:00 a.m. - 5:00 p.m.
U.S. NRC, Two White Flint North, Auditorium**

Time	Topic	
9:00 a.m.	Introductory Remarks	NRC
9:15 a.m.	Update: NRC Electronic Submittal Process for COL Applications	NRC
10:15 a.m.	Update: NRC New Reactor Licensing <ul style="list-style-type: none">• COL Application Acceptance Review Process• Licensing Program Plan Activities and Scheduling	NRC
11:45 a.m.	Update: NRC Quality Assurance pre-application interactions	NRC
12:15 p.m.	Lunch Break	All
1:30 p.m.	General Design Criteria (GDC) 17	NRC
2:30 p.m.	Radioactive Waste Programs (FSAR Chapter 11)	NRC/ DCWG
3:30 p.m.	Break	All
4:00 p.m.	Probabilistic Risk Assessment (PRA) information to support Design Certification and COL Applications (Summary of July 19, 2007, public meeting)	NRC/ DCWG
4:45 p.m.	Opportunity for public comment	NRC
5:00 p.m.	Adjourn	NRC

**Agenda for Public Meeting
Between the AP1000 and ESBWR Design-Centered Working Groups (DCWGs)
and the NRC Regarding Pre-COL Activities**

**July 25, 2007
9:00 a.m. - 12:30 p.m.
U.S. NRC, Two White Flint North, Auditorium**

Time	Topic	
9:00 a.m.	Introductory Remarks	NRC
9:15 a.m.	ESBWR COL holder topics <ul style="list-style-type: none">• Coatings• Inservice Testing (IST)	DCWG
10:00 a.m.	AP1000 FSAR Standardization and Content	DCWG
10:45 a.m.	AP1000 COL Application Organization and Content	DCWG
11:45 a.m.	Action Item review	NRC/ DCWG
12:15 p.m..	Opportunity for public comment	NRC
12:30 p.m.	Adjourn	NRC

**Public Meeting
Joint AP1000/ESBWR Design-Centered Working Groups (DCWGs)
Regarding Pre-COL Activities**

**July 24 and 25, 2007
U.S. NRC, Two White Flint North, Auditorium**

Attendance List

Name	Organization
Russ Bell	NEI
Gina Borsh	Dominion
Patricia Campbell	GE-Hitachi
Gary Curtis	TVA
Rocky Foster	NRC/NRO
Meghan Goldman	Calvert Cliffs
Eddie Grant	NuStart
Joe Hegner	Dominion
Thomas Hicks	NuStart
Kenneth Hughey	Entergy
Tom Kevern	NRC/NRO
Sarah Lynch	US GAO
Eileen McKenna	NRC/NRO
Joseph A. Mihalcik	UniStar Nuclear
Bill Reckley	NRC/NRO
Sarah Lynch	US GAO
Steven Frantz	Morgan Lewis
Mohammed Shuaibi	NRC/NRO
Pedro Salas	Areva
Amy M. Monroe	SCE&G
Thomas Hicks	NuStart
Martin Stutzke	NRC/NRO
Lynn Mrowca	NRC/NRO

Name	Organization
David Piepmeyer	GE
Mosanori Onozuka	MNES
Charles Pierce	Southern Nuclear
Cal Reid	Bechtel
Steve Routh	Bechtel
Julie Silvers	US GAO
Tom Slavonic	Enercon Services
James Steckel	NRC/NRO
Larry Burkhart	NRC/NRO
Omp Chopra	NRC/NRO
Paul Gill	NRC/NRO
William Roggenbrodt	NRC/NRO
John Oddo	Shaw Stone and Webster
Paul Saladin	Bechtel
Doug Weaver	NRC/NRO
Amy Aughtman	Southern Nuclear
Norman Simms	Duke
Kenneth Ainger	Exelon Generation
Leslie Kass	NEI
Richard C. L. Olson	Enereon
Bill Victor	Black and Veatch
George Madden	Black and Veatch/River Bend 3
Kerri Kavanagh	NRC/NRO
Don Hutchings	Westinghouse
Danica Popovich	Westinghouse
Susan Keaney	Westinghouse
Amelia Johnson	NRC/NRO
Wil Madison	NRC/NRO
KG Golshan	NRC/NRO

Name	Organization
Paul Deloeier	Humank Associates, Inc.
Jeff Ciocco	NRC/NRO
David Shum	NRC/NRO
Bob Kitchen	Progress Energy
Martha Shields	DOE
Mark Giles	Entergy
Michael Rodriguez	NRC/NRO
William E. Smith	Southern Nuclear
Thomas Fredrichs	NRO/NRC
Al Schneider	Enercon
Jean-Claude Dehmel	NRC/NRO
Mark Beaumont	Washington Group International
Tom Williamson	Entergy/NuStart

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