

April 16, 2015

MEMORANDUM TO: Lawrence J. Burkhart, Chief  
Licensing Branch 4  
Division of New Reactor Licensing  
Office of New Reactors

FROM: Bruce Baval, Project Manager */RA/*  
Licensing Branch 4  
Division of New Reactor Licensing  
Office of New Reactors

SUBJECT: SUMMARY OF PUBLIC AND CLOSED MEETING WITH  
WESTINGHOUSE ELECTRIC COMPANY REGARDING  
PRE-SUBMITTAL OF A SPECIALIZED SEISMIC OPTION  
FOR AP1000

The U.S. Nuclear Regulatory Commission (NRC) held a public and a closed meeting session on March 18–19, 2015, at the Westinghouse Electric Company's (WEC) headquarters in Cranberry Township, Pennsylvania. NRC staff met with WEC personnel to discuss and obtain an understanding of the planned contents of the specialized seismic option report, including the supporting analyses. This was a Category 2 meeting. The public was invited to participate in this meeting by discussing regulatory issues with the NRC at designated points identified on the agenda.

Enclosed are the meeting agenda (Enclosure 1) and the meeting attendees list (Enclosure 2). The non-proprietary WEC's presentation slides and the meeting notice can be found in the Agencywide Documents Access and Management System (ADAMS), respectively (ADAMS Accession Nos. ML15054A245 and ML15008A105). Enclosure 3 contains the NRC's meeting summary.

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Discussion

Following the public portion presentation, the NRC provided some remarks and then opened the meeting for public comments. No public comments were made, and that portion of the meeting was adjourned.

Project No. 0813

Enclosures:

1. Meeting Agenda
2. Meeting Attendees List
3. Summary

cc w/encls (1, 2, and 3): See next page

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DATE	4/8/15	4/7/15	4/8/15	4/16/15	4/16/15

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## Meeting Agenda

### Public/Closed Meeting to Discuss Pre-Submittal Technical Issues with Westinghouse Electric Company Regarding the Specialized Seismic Option for the AP1000 March 18–19, 2015

Purpose: The purpose of this meeting was for U.S. Nuclear Regulatory Commission (NRC) staff who will be involved in the review of the document to obtain an understanding of the planned contents of the option report, including the supporting analyses.

<b>Day 1 (March 18, 2015)</b>	
<b>Public Meeting</b>	
1:00 p.m.	Welcome, Safety Brief, Introductions
1:10 p.m.	Process and Status of Westinghouse Specialized Seismic Option Program
1:30 p.m.	Public Questions and Comments
1:45 p.m.	Close Public Portion of the Meeting
<b>Closed Meeting</b>	
2:15 p.m.	Technical Overview and Status of Project
3:00 p.m.	Overview and Status of Project Licensing
3:30 p.m.	Discussion of Tomorrow's Agenda
4:00 p.m.	Open for Questions and Comments
4:30 p.m.	Adjourn Meeting for the Day
<b>Day 2 (March 19, 2015)</b>	
Closed Meeting	
8:00 a.m.	Welcome, Safety Brief, Introductions
8:15 a.m.	Technical Discussions
3:30 - 4:00 p.m.	Closeout Meeting

## List of Attendees

### Public/Closed Meeting to Discuss Pre-Submittal Technical Issues with Westinghouse Electric Company (WEC) Regarding the Specialized Seismic Option for the AP1000

March 18–19, 2015

Name	Work Location
Bruce BavoI	NRC
Lindsay Robinson	NRC
Vaughn Thomas	NRC
Pravin Patel	NRC
Lawrence Burkhart	NRC
Mohamed Shams	NRC
Robert Roche-Rivera	NRC
Alissa Neuhausen	NRC
Tuan Le	NRC
Alexander Tsirigotis	NRC
Theresa Clark	NRC (phone)
Yoshio Kawano	Toshiba
Yoshitaka Nihara	Toshiba
Nobuyasu Tajima	Toshiba
Hiroshi Hirayama	Toshiba
Tadashi Murafushi	Toshiba
Rita Bowser	WEC
Jason S. Young	WEC
Camille Zozula	WEC
Rob Sisk	WEC
Richard Anderson	WEC
Bob Seelman	WEC
Matthew C. Smith	WEC
Robin Rickman	WEC
Toyoaki Miyazaki	WEC
Erik Zambelli	WEC
Mike Corletti	WEC
Lee Tunon-Sanjur	WEC
Robert Theuret	WEC
Jill Monahan	WEC
Bill LaPay	WEC
Jennifer Zhang	WEC
Bob Coward	MPR
Caroline Schlaseman	MPR
Ruth Thomas	Environmentalists Inc.
Don Moore	Southern Company
Ryan Springer	Mitsubishi

**MEETING WITH WESTINGHOUSE ELECTRIC COMPANY  
REGARDING PRE-SUBMITTAL OF A SPECIALIZED SEISMIC OPTION  
FOR AP1000**

**March 18—19, 2015**

The purpose of this meeting was for U.S. Nuclear Regulatory Commission (NRC) staff who will be involved in the review of the document to obtain an understanding of the planned contents of the option report, including the supporting analyses.

As expressed by Westinghouse Electric Company (WEC), the purpose of this project will be to extend the range of applicability of the AP1000 plant design, and obtain NRC's approval of a submittal (evidenced by a Safety Evaluation Report) for a Specialized Seismic Option. The target sites are select hard-rock sites west of the Mississippi River and the proposed Specialized Seismic Option also envelopes certain sites in other countries. WEC anticipates that this will allow combined license (COL) applicants with appropriate site conditions to reference the option methodology and limited enhancements in COL applications. This submittal is not applicable to any current AP1000 licensee or COL applicant.

The March 18, 2015, afternoon closed portion of the meeting included more detailed presentations on the Specialized Seismic Option project, including overviews of the design plan and design control, technical analyses and potential design enhancements, and plans for the Option Report.

The March 19, 2015, closed meeting included additional presentation material on the detailed technical work that WEC and Toshiba are currently performing to support the Specialized Seismic Option Program. The presentation contained details on the analysis methodologies, inputs and results (where available) of the calculations. The need for and types of limited design enhancements were identified.

The technical discussions included:

- Enhanced Seismic Spectrum
- Nuclear Island Modeling Approach
- In-structure Response Spectra for Critical Locations
- Structures, Systems, and Component Design Stress Analyses
  - Structures
  - Containment Vessel
  - Components
  - Piping
  - Fuel
- Seismic Margin Assessment

The Specialized Seismic Option Report is planned for submittal by WEC in September 2015.

Enclosure 3

DC Westinghouse - AP1000 Mailing List

(Revised 10/02/2014)

cc:

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Director, AP1000 Licensing  
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