

March 3, 2009

MEMORANDUM TO: Eileen McKenna, Branch Chief  
AP1000 Projects Branch 2  
Division of New Reactor Licensing

FROM: Billy Gleaves, Senior Project Manager */RA/*  
AP1000 Projects Branch 2  
Division of New Reactor Licensing

SUBJECT: SHIELD BUILDING FOCUS MEETING WITH WESTINGHOUSE  
ELECTRIC COMPANY ON AP1000 DESIGN CERTIFICATION  
AMENDMENT

DATE & TIME: First Session: 8:30 AM – 3:30 PM  
Wednesday, March 18, 2009

Second Session: 8:30 AM – 3:30 PM  
Thursday, March 19, 2009

LOCATION: Westinghouse Electric Company  
Washington Operations Office  
12300 Twinbrook Parkway, Suite 330  
Rockville, MD 20852

PURPOSE: This meeting is to discuss the NRC review of the Westinghouse application for amendment to the AP1000 Design Certification. Specifically, the participants will discuss technical issues related to the shield building associated with the proposed design.

CATEGORY 1: \* This is a Category 1 Meeting. The public is invited to observe this meeting and will have one or more opportunities to communicate with the NRC after the business portion but before the meeting is adjourned. Selected portions of the meeting will be closed to the public during discussions of proprietary information.

MEETING CONTACT: Billy Gleaves, US NRC/NRO  
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\* Commission's Policy Statement on "Enhancing Public Participation in NRC Meetings" (67 FR 36920), May 28, 2002.

E. McKenna

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**PARTICIPANTS:** Participants from the NRC include members from the Office of New Reactors (NRO) and Westinghouse Electric Company (WEC)

**NRC**

L. Dudes, NRO  
E. McKenna, NRO  
B. Gleaves, NRO  
B. Thomas, NRO  
P. Patel, NRO  
J. Ma, NRO  
B. Tegeler, NRO  
J. Bielecki, OGC  
NRC Contractors from  
Brookhaven National  
Laboratory

**WEC**

R. Sisk, WEC  
D. Lindgren, WEC  
W. LaPay, WEC  
L. Tunon-Sanjur, WEC  
R. Orr, WEC

E. McKenna

-2-

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OFFICE	PM:DNRL:NWE2:NRO	LA:DNRL:NWE2:NRO	BC:DNRL:NWE2:NRO
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DATE	03/03/2009	03/03/2009	03/03/2009

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AGENDA

NUCLEAR REGULATORY COMMISSION MEETING WITH

Westinghouse Electric Company

Structural/Seismic Technical Audit and Focus Meeting

March 18, 2009

8:30 AM	Welcome/Introduction (Open)
8:35 AM	NRC Presentation of Technical Issues Associated with SRP 3.7 & 3.8 (High Level, Open)
8:55 AM	Technical Discussion with WEC on Issues (CLOSED*)
10:00 AM	BREAK
10:10 AM	Resume Technical Discussion (CLOSED*)
12:00 PM	BREAK for Lunch
1:00 PM	Resume Technical Discussion (CLOSED*)
2:30 PM	BREAK
2:40 PM	Resume Technical Discussion (CLOSED*)
3:15 PM	Opportunity for Public Remarks (Open)
3:25 PM	Closing Remarks
3:30 PM	ADJOURN

Note: Some sessions will be closed to discuss proprietary documents and information pursuant to 5 U.S.C 552b(c)(4)

AGENDA

NUCLEAR REGULATORY COMMISSION MEETING WITH

Westinghouse Electric Company

Structural/Seismic Technical Audit and Focus Meeting

March 19, 2009

8:30 AM	Introduction (Open)
8:35 AM	Brief Overview of Previous Day's Progress (CLOSED*)
8:55 AM	Technical Discussion with WEC on Issues (CLOSED*)
10:00 AM	BREAK
10:10 AM	Resume Technical Discussion (CLOSED*)
12:00 PM	BREAK for Lunch
1:00 PM	Resume Technical Discussion (CLOSED*)
2:30 PM	BREAK
2:40 PM	Resume Technical Discussion (CLOSED*)
3:15 PM	Opportunity for Public Remarks (Open)
3:25 PM	Closing Remarks
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TOPICAL AGENDA

NUCLEAR REGULATORY COMMISSION MEETING WITH

Westinghouse Electric Company

Structural/Seismic Technical Audit and Focus Meeting

March 18, 2009

Steel Composite – (SC) Liner, shear studs, concrete fill, trusses	RAI-TR57-008
Headed shear studs welded to liner – deformation mechanism and strength for shear and pull-out	Technical Reports & DCD
The role of trusses	Technical Reports & DCD
SC behaviour under in-plane loads – deformation mechanism and strength - theory and tests	Technical Reports & DCD
SC behaviour under flexural loading – deformation mechanism and strength - theory and tests	Technical Reports & DCD
Introduction of JEAG code for nuclear power facilities and comparison of JEAG Vs ACI349 predictions of SC response	Technical Reports & DCD
Prediction of SC response by ACI349 and JEAG formulas Vs. Test data – (tests in RAI response)	RAI-SRP3.8.3-SEB1-04
Codes and Standards Applicability of N690-1994 and others	RAI-TR57-003, RAI-SRP3.8.3-SEB1-01
Shear friction mechanism	Technical Reports & DCD
Shear friction based connection methodology for offset rebars	Technical Reports & DCD
Obayashi tests for offset rebars and comparison with shear friction methodology	Technical Reports & DCD
Module stiffness for seismic use	RAI-SRP-SEB1-03

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NUCLEAR REGULATORY COMMISSION MEETING WITH

Westinghouse Electric Company

Structural/Seismic Technical Audit and Focus Meeting

March 19, 2009

FE Analysis of Nuclear Island – response spectra, load combinations, macro, etc	APP-GW-GLR-045
AP1000 Shield Building Components – cylinder, roof and air inlet areas	RAI-SRP3.8.4-SEB1-03
Cylinder design – general and connections to RC	RAI-TR57-10, RAI-SRP3.8.3-SEB1-04
Roof design	APP-GW-GLR-045
Construction and constructability issues – including liner assembly, concrete compaction, inspection, etc	Technical Reports & DCD
Corrosion	Technical Reports & DCD
Fire protection	Technical Reports & DCD

\*Note: Some sessions may be closed to discuss proprietary documents and information pursuant to 5 U.S.C 552b(c)(4)

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(Revised 02/24/2009)

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