

December 24, 2003

APPLICANT: Westinghouse Electric Company

PROJECT: AP1000 Standard Plant Design

SUBJECT: SUMMARY OF OCTOBER 2, 2003, CATEGORY 1 MEETING WITH WESTINGHOUSE ELECTRIC COMPANY TO DISCUSS LEAK-BEFORE-BREAK OPEN ITEMS ASSOCIATED WITH THE AP1000 DESIGN CERTIFICATION REVIEW

On October 2, 2003, a public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives of Westinghouse Electric Company (Westinghouse, the applicant), at NRC Headquarters in Rockville, MD. The purpose of this meeting was to discuss the open items related to leak-before-break (LBB) (3.6.3.4-1 and 3.6.3.4-2) from the NRC staff's June 16, 2003, draft safety evaluation report (DSER) concerning the AP1000 design certification review. A list of meeting attendees is included as Attachment 1. Attachment 2 contains the presentation by Westinghouse at the public meeting (ADAMS Accession Number ML033380832). A summary of the meeting is included below.

Westinghouse provided the NRC staff with a presentation on their assessment of the LBB candidate piping systems. This assessment considered the differences between the AP600 and AP1000 designs in four areas: seismic response spectra, pipe line diameter, material properties, and leak rate detection. This approach was discussed with the NRC staff previously in a conference call on August 25, 2003, and documented in a call summary dated September 10, 2003 (ADAMS Accession Number ML032510004).

After the presentation, the NRC staff and Westinghouse discussed the presentation and the LBB assessment, which was submitted to the NRC in a letter dated September 26, 2003 (see table below). The NRC staff's concerns included the seismic response spectra effects (peak-to-valley versus peak-to-peak) and the ability to add or relocate supports for certain LBB piping subsystems. The NRC staff was also concerned with the modification of lines where piping layout is important from a thermal/hydraulic standpoint (i.e., direct vessel injection line). To address the seismic response spectra concern, Westinghouse provided an assessment of an LBB piping system using a bounding seismic increase factor based on the largest ratio of acceleration values at each frequency. To address the thermal/hydraulic concern, Westinghouse agreed to revise the LBB assessment to provide an additional evaluation of the east and west 4th stage ADS lines using the revised bounding seismic increase factor.

The Westinghouse responses to these open items can be found in the following letters:

<u>Open Item</u>	<u>Response Date</u>	<u>ADAMS Accession Number</u>
3.6.3.4-1	July 1, 2003	ML031950553
	July 31, 2003 (Revision 1)	ML032160428
3.6.3.4-2	August 13, 2003	ML032270388
	September 26, 2003 (Addendum 1)	ML032690344
	October 13, 2003 (Addendum 1, Revision 1*)	ML032901130
	November 13, 2003 (Addendum 1, Revision 2*)	ML033210561

(*Submittals provided after October 2, 2003, public meeting)

These letters may be accessed through the ADAMS system. If you do not have access to ADAMS or if there are problems in accessing the letters located in ADAMS, contact the NRC Public Document Room (PDR) reference staff at 1-800-397-4209, 301-415-4737 or by e-mail to pdr@nrc.gov.

Members of the public were in attendance but did not make public comments.

Please direct any inquires concerning this meeting to Joseph Colaccino at 301-415-2753, or jxc1@nrc.gov.

/RA/

Joseph Colaccino, Senior Project Manager
New Reactors Section
New, Research and Test Reactors Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

Docket No. 52-006

Attachments: 1. List of attendees
2. Westinghouse Handout: AP1000 Evaluation of Candidate LBB Piping Systems (ADAMS Accession Number ML033380832)

cc w/ atts: See next page

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Joseph Colaccino, Senior Project Manager
New Reactors Section
New, Research and Test Reactors Program
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DISTRIBUTION:

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PSekarak	SSheng	GImbro	KManoly		

*See previous concurrence

ML033430273-Meeting Summary
ML033380832-Attachment 2

ADAMS ACCESSION NUMBER: ML033430268-Pkg.

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NAME	JColaccino	ESullivan	DTerao	LDudes
DATE	12/23/2003	12/22/2003	12/11/2003	12/24/2003

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**NRC PUBLIC MEETING ATTENDANCE LIST
AP1000 DESIGN CERTIFICATION
LEAK-BEFORE-BREAK DRAFT SAFETY EVALUATION REPORT OPEN ITEMS
OCTOBER 2, 2003**

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AP 1000

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