

November 17, 2003

MEMORANDUM TO: Laura A. Dudes, Section Chief
New Reactors Section
New, Research and Test Reactors Program
Division of Regulatory Improvement Programs, NRR

FROM: Joseph Colaccino, Senior Project Manager */RA/*
New Reactors Section
New, Research and Test Reactors Program
Division of Regulatory Improvement Programs, NRR

SUBJECT: OCTOBER 8, 2003, AP1000 TELEPHONE CONFERENCE CALL
SUMMARY CONCERNING OPEN ITEM 14.2-1.aa

On Wednesday, October 8, 2003, a telephone conference call was held with Westinghouse Electric Company (Westinghouse) representatives and Nuclear Regulatory Commission staff and contractors to discuss AP1000 Open Item 14.2-1.aa. The call participants are listed in Attachment 1.

The NRC staff sent Westinghouse, via electronic mail dated October 8, 2003, comments concerning their September 8, 2003, response to this open item (ADAMS Accession Number ML032530326). These comments are included in Attachment 2. A summary of Westinghouse actions to address the NRC staff's comments is included in Attachment 3.

Docket No. 52-006

Attachments: As stated

cc w/atts: See next page

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OCTOBER 8, 2003
TELEPHONE CONFERENCE CALL SUMMARY
LIST OF PARTICIPANTS

Nuclear Regulatory Commission

S. P. Sekerak
J. Colaccino
J. Wilson
D. Terao
F. Talbot

Westinghouse

M. Corletti
E. Cummins

SUBJECT: AP1000 Initial Test Program Review, DSER Open Item 14.2-1.aa

DATE: October 8, 2003

DISCUSSION:

NRC staff review of the Westinghouse response (dated 09/08/2003) to DSER Open Item 14.2-1.aa has resulted in the following comments.

The W response to DSER Open Item 14.2-1.aa is not acceptable, because it is incomplete for the following reason. While the purpose of the expansion, vibration, and dynamic effects testing stated in the response is correct, the ITAAC referenced in the response falls short of accomplishing that purpose. The referenced ITAAC does not consider the potential effects of unanticipated constraint from other installed structures, systems, and components on an individual piping system when considered in the context of the as-built condition of the entire plant. The ITAAC referenced in the response proposes reconciliation of the as-built condition of the piping system itself with the requirements of the ASME Code design report. However, this design reconciliation alone, while satisfying design requirements, does not verify that the piping will have sufficient clearance with all other installed equipment to allow analytically predicted movement during transient events.

The tests described in DCD Section 14.2.9.1.7 are designed to provide that kind of verification, and the staff position is that appropriate ITAAC for the piping expansion, vibration, and dynamic effects testing should be added to the existing Tier 1 information.

OPEN ITEM 14.2-1.aa
AP1000 TELEPHONE CONFERENCE CALL
OCTOBER 8, 2003

The NRC staff stated that the ITAAC (inspection, test, analysis, and acceptance criteria) was not sufficient to address piping expansion and vibration testing (reference: AP1000 design control document (DCD) Tier 2 Section 14.2.9.1.7). Westinghouse stated that the three previous design certifications under 10 CFR Part 52 did not require additional ITAACs beyond the inclusion of ASME Code Section III design reports for the as-built condition of the piping systems. In addition, Westinghouse stated that there are no clear acceptance criteria to include in the ITAAC. Therefore, Westinghouse stated that this testing should not be included as an ITAAC.

After additional discussion with the NRC staff in which the staff explained that in the ABWR and System 80+ design certification, the Tier 1 piping design descriptions included a reference to verify as-built interferences, Westinghouse stated that they would like to discuss the issue further internally and then may revise their response to this open item.

AP 1000

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