

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

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

Distribution:

Hard Copy

RNRP R/F

JLyons

JSegala

JStarefos

E-mail

PUBLIC

DMatthews

JMoore, OGC

RWeisman, OGC

SPSekerak

FTalbot

ACCESSION NUMBER: ML033100157

OFFICE	RNRP/PM	EMEB/SC	RNRP/SC
NAME	JColaccino	DTerao	LDudes
DATE	11/10/03	11/12/03	11/14/03

OFFICIAL RECORD COPY

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

1424 16th Street, NW., Suite 404
Washington, DC 20036

cc:

Mr. W. Edward Cummins
AP600 and AP1000 Projects
Westinghouse Electric Company
P.O. Box 355
Pittsburgh, PA 15230-0355

Mr. Tom Clements
6703 Guide Avenue
Takoma Park, MD 20912

Mr. James Riccio
Greenpeace
702 H Street, NW, Suite 300
Washington, DC 20001

Mr. H. A. Sepp
Westinghouse Electric Company
P.O. Box 355
Pittsburgh, PA 15230

Mr. James F. Mallay, Director
Regulatory Affairs
FRAMATOME, ANP
3315 Old Forest Road
Lynchburg, VA 24501

Lynn Connor
Doc-Search Associates
2211 SW 1ST Ave - #1502
Portland, OR 97201

Mr. Ed Wallace, General Manager
Projects
PBMR Pty LTD
PO Box 9396
Centurion 0046
Republic of South Africa

Barton Z. Cowan, Esq.
Eckert Seamans Cherin & Mellott, LLC
600 Grant Street 44th Floor
Pittsburgh, PA 15219

Mr. Vince Langman
Licensing Manager
Atomic Energy of Canada Limited
2251 Speakman Drive
Mississauga, Ontario
Canada L5K 1B2

Mr. Ed Rodwell, Manager
Advanced Nuclear Plants' Systems
Electric Power Research Institute
3412 Hillview Avenue
Palo Alto, CA 94304-1395

Mr. Gary Wright, Manager
Office of Nuclear Facility Safety
Illinois Department of Nuclear Safety
1035 Outer Park Drive
Springfield, IL 62704

Charles Brinkman, Director
Washington Operations
Westinghouse Electric Company
12300 Twinbrook Parkway, Suite 330
Rockville, MD 20852

Dr. Gail H. Marcus
U.S. Department of Energy
Room 5A-143
1000 Independence Ave., SW
Washington, DC 20585

Mr. R. Simard
Nuclear Energy Institute
1776 I Street NW
Suite 400
Washington, DC 20006

Mr. Paul Leventhal
Nuclear Control Institute
1000 Connecticut Avenue, NW
Suite 410
Washington, DC 20036

Mr. Thomas P. Miller
U.S. Department of Energy
Headquarters - Germantown
19901 Germantown Road
Germantown, MD 20874-1290

Mr. Jack W. Roe
SCIENTECH, INC.
910 Clopper Road
Gaithersburg, MD 20878

Mr. David Lochbaum
Nuclear Safety Engineer
Union of Concerned Scientists
1707 H Street NW, Suite 600
Washington, DC 20006-3919

Patricia Campbell
Winston & Strawn

Mr. Paul Gunter
Nuclear Information & Resource Service

1400 L Street, NW
Washington, DC 20005

Mr. David Ritter
Research Associate on Nuclear Energy
Public Citizens Critical Mass Energy
and Environmental Program
215 Pennsylvania Avenue, SE
Washington, DC 20003

Mr. Ronald P. Vijuk
Manager of Passive Plant Engineering
AP1000 Project
Westinghouse Electric Company
P. O. Box 355
Pittsburgh, PA 15230-0355