

February 12, 2003

MEMORANDUM TO: Marsha Gamberoni, Deputy Director  
New Reactor Licensing Project Office  
Office of Nuclear Reactor Regulation

FROM: Lawrence J. Burkhart, AP1000 Project Manager */RA/*  
New Reactor Licensing Project Office  
Office of Nuclear Reactor Regulation

SUBJECT: JANUARY 29, 2003, TELEPHONE CONFERENCE CALL SUMMARY

On Wednesday, January 29, 2003, a telephone conference call was held with Westinghouse Electric Company (Westinghouse) representatives and the Nuclear Regulatory Commission (NRC) staff to discuss issues associated with the AP1000 containment and auxiliary systems. Specifically, the following requests for additional information (RAIs) were discussed: 410.016, 410.017, 410.018, 410.019, 410.020, 480.005, and 480.007. These RAIs were issued by the staff on September 30, 2002 (ADAMS Accession No. ML022680338). Westinghouse provided its responses to RAIs 410.016 and 410.018 on November 26, 2002 (ADAMS Accession No. ML023360097); to RAIs 410.017 and 410.019 on November 8, 2002 (ADAMS Accession No. ML023170535); to RAI 410.020 on October 18, 2002 (ADAMS Accession No. ML022980577); and to RAIs 480.005 and 480.007 on November 1, 2002 (ADAMS Accession No. ML023110249). The purpose of the call was to discuss Westinghouse's responses to these RAIs and to discuss any additional information that may clarify the issues raised in the RAIs. A list of telephone conference call participants is included as Attachment 1. Attachment 2 contains comments on RAIs 480.005 and 480.007 that were sent on January 28, 2003, via electronic mail to Mr. Michael M. Corletti of Westinghouse. Comments regarding the subject 410 series RAIs were sent to Mr. Corletti via electronic mail on February 4, 2003 (the comments were the same as those included below).

The following is a summary of the discussions held on January 21, 2003:

#### RAI 410.016

The NRC staff would like to know how the operator will know when action is required to be taken if the calculated decay heat in the spent fuel pool (SFP) is greater than, for example, 2.3 megawatts (thermal) [mwt]. The NRC staff determined that it was unclear in the RAI response or design control document (DCD) when the operator would know to take action. In response to these comments Westinghouse representatives stated that the DCD (Section 9.1.3.4.4) and the RAI response would be revised to clarify this issue.

#### RAI 410.017

Westinghouse provided a discussion and explanation of its response. The NRC staff determined that the information provided was sufficient at this time, and that no additional information was necessary to clarify Westinghouse's position.

RAI 410.018

The NRC staff expressed that it did not understand what Westinghouse intends with respect to the analysis of activity releases due to SFP boiling. Westinghouse representatives stated that it was not the intention to analyze grab samples. To address this issue, Westinghouse representatives stated that DCD, Section 9.1.3.4.3 and RAI response would be revised to clarify the intention regarding this issue.

RAI 410.019

The NRC staff and Westinghouse representatives discussed the RAI response regarding the supply of makeup water for the SFP. The NRC staff has some confusion in the determination of whether there is a 3-day or 7-day supply of makeup water for the SFP. Westinghouse stated that the DCD and RAI response would be revised to clarify this issue.

RAI 410.020

Westinghouse provided a discussion and explanation of its response. The NRC staff determined that the information provided was sufficient at this time, and that no additional information was necessary to clarify Westinghouse's position.

RAI 480.005 (See comments in Attachment 2)

Westinghouse representatives stated that the next revision of the DCD (Revision 3 which is planned for submission in late January or early February 2003) would address these comments.

RAI 480.007 (See comments in Attachment 2)

This RAI response was not discussed in detail. Westinghouse representatives committed to review the comments and inform the NRC staff of the actions that are intended to be taken in response to these comments.

Docket No. 52-006

Attachment: As stated

RAI 410.018

The NRC staff expressed that it did not understand what Westinghouse intends with respect to the analysis of activity releases due to SFP boiling. Westinghouse representatives stated that it was not the intention to analyze grab samples. To address this issue, Westinghouse representatives stated that DCD, Section 9.1.3.4.3 and RAI response would be revised to clarify the intention regarding this issue.

RAI 410.019

The NRC staff and Westinghouse representatives discussed the RAI response regarding the supply of makeup water for the SFP. The NRC staff has some confusion in the determination of whether there is a 3-day or 7-day supply of makeup water for the SFP. Westinghouse stated that the DCD and RAI response would be revised to clarify this issue.

RAI 410.020

Westinghouse provided a discussion and explanation of its response. The NRC staff determined that the information provided was sufficient at this time, and that no additional information was necessary to clarify Westinghouse's position.

RAI 480.005 (See comments in Attachment 2)

Westinghouse representatives stated that the next revision of the DCD (Revision 3 which is planned for submission in late January or early February 2003) would address these comments.

RAI 480.007 (See comments in Attachment 2)

This RAI response was not discussed in detail. Westinghouse representatives committed to review the comments and inform the NRC staff of the actions that are intended to be taken in response to these comments.

Docket No. 52-006

Attachment: As stated

Distribution:Hard Copy

NRLPO R/F

LBurkhart

JLyons

MGamberoni

E-mail

PUBLIC

R. Borchardt

J. Williams

J. Moore, OGC

R. Weisman, OGC

E. Throm

H. Walker

S. Weerakkody

J. Hannon

J. Segala

J. Colaccino

J. Starefos

ACCESSION NUMBER: ML030340184

OFFICE	NRLPO/PM	EMEB/SC	NRLPO/DD
NAME	LBurkhart:cn	SWeerakkody	MGamberoni
DATE	2/3/03	2/5/03	2/11/03

**OFFICIAL RECORD COPY**

JANUARY 29, 2003  
TELEPHONE CONFERENCE CALLS SUMMARY  
LIST OF PARTICIPANTS

Nuclear Regulatory Commission

Larry Burkhart  
Harold Walker  
Ed Throm

Westinghouse

Mike Corletti  
Dale Wiseman  
Ed Cummins  
Ron Vijuk

FOLLOW-UP QUESTIONS TO WESTINGHOUSE'S  
AP1000 RAI RESPONSES

RAI 480.005

1. With the new Reference 26, the design control document (DCD) text must be updated - there is no Section 6 in the new reference.
2. Reference 26 appears to be new information developed after the DCD was issued; the original DCD implied that the AP600 subcompartment model was used for the AP1000 - hence no changes in the loads. The staff requested the original reference to verify Westinghouse's apparent conclusion. Were the loads re-evaluated based on the new model? Were no new analyses needed based on the location of possible breaks only being in subcompartments essentially identical to their AP600 counterpart?

RAI 480.007

1. The timing of the standpipe uncover presented in the data table appears to be different than originally described in WCAP-15612 (a) pipe one 14400 s to 14400.1 s, as compared to 13670 s to 13680 s, (b) pipe two 39600 s to 39600.1 s, as compared to 39560 s to 39600 s, and (c) pipe three 82800 s to 82800.1 s, as compared to 84590 s to 84600 s. Which set of data is actually used in WGOthic? If neither is now correct, please provide the WGOthic data.
2. In trying to resolve this issue, a review of WCAP-15846, "WGOthic Application to AP600 and AP1000," found a possible error in Table 13-125 and/or Figure 13-93. In one case the data is stated to be pounds-per-second (lb/sec) and in the other case gallons-per-minute (gpm). Please clarify the correct units and correct as appropriate.

AP 1000

cc:

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

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

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

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

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

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

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

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

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

Mr. Paul Gunter  
Nuclear Information & Resource Service  
1424 16th Street, NW., Suite 404  
Washington, DC 20036

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

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

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

Mr. Ed Wallace, General Manager  
Project Management  
Lake Buena Vista Bldg., 3<sup>rd</sup> Floor  
1267 Gordon Hood Avenue  
Centurion 0046  
Republic of South Africa  
PO Box 9396 Centurion 0046

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

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

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

Mr. Edwin Lyman  
Nuclear Control Institute  
1000 Connecticut Avenue, NW  
Suite 410  
Washington, DC 20036

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

Patricia Campbell  
Winston & Strawn  
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. Michael M. Corletti  
Passive Plant Projects & Development  
AP600 & AP1000 Projects  
Westinghouse Electric Company  
P. O. Box 355  
Pittsburgh, PA 15230-0355