

April 16, 2003

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

FROM: Joelle L. Starefos, Project Manager */RA/*
New Reactor Licensing Project Office
Office of Nuclear Reactor Regulation

SUBJECT: MARCH 31, 2003, AP1000 TELEPHONE CONFERENCE CALL
SUMMARY

On Monday, March 31, 2003, a telephone conference call was held with Westinghouse Electric Company (Westinghouse) representatives and Nuclear Regulatory Commission (NRC) staff to discuss questions pertaining to the AP1000 Design Control Document (DCD) Section 17.4, Reliability Assurance Program. A list of call participants is included in Attachment 1. Subsequent to the call, two new Requests for Additional Information (RAIs), numbered 260.004 and 260.005, were transmitted to Mr. Michael Corletti of Westinghouse via electronic mail on April 1, 2003, and are contained in Attachment 2. The new RAIs will be formally transmitted to Westinghouse via letter.

The following is a brief summary of the discussions regarding the identified RAIs (see comments in Attachment 2):

RAI 260.004

Westinghouse agreed to change the DCD to make the development of component maintenance recommendations for the plant's operations and maintenance activities for identified SSCs a combined license (COL) action item.

RAI 260.005

Westinghouse agreed to update the DCD to reference appropriate sections of probabilistic risk assessment (PRA) database failure information. In addition, Westinghouse agreed to remove the statement, "do not reflect the current AP1000 design," from DCD Section 17.4.7.4.

Docket No. 52-006

Attachment: As stated

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OFFICE	NRLPO/PM	IEHB/QMS/SC	NRLPO/DD
NAME	JStarefos:kf	DThatcher	MGamberoni-JMS3 for:
DATE	4/15/03	4/16/03	4/16/03

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MARCH 31, 2003
TELEPHONE CONFERENCE CALL SUMMARY
LIST OF PARTICIPANTS

Nuclear Regulatory Commission

Joelle Starefos
Jerry Wilson
Frank Talbot

Westinghouse

Mike Corletti
Terry Schulz

NUCLEAR REGULATORY COMMISSION STAFF
COMMENTS THAT WERE SENT TO WESTINGHOUSE
FOLLOWING CALL HELD ON MARCH 31, 2003

Series 260 - Quality Assurance and Reliability Assurance Program

RAI 260.004

In the AP1000 Design Control Document (DCD) Section 17.4.1, Revision 0, Westinghouse stated that the Design Reliability Assurance Program (D-RAP), as shown in Figure 17.4-1, is implemented in three phases. The first phase, the Design Certification phase, defines the overall structure of the AP1000 D-RAP, and implements those aspects of the program which are applicable to the design process. During this phase, risk-significant systems, structures, and components (SSCs) are identified for inclusion in the program using probabilistic, deterministic, and other methods. Phase II, the post-design certification process, develops component maintenance recommendations for the plant's operations and maintenance activities for identified SSCs. The third phase is the site-specific phase, which introduces the plant's site-specific SSCs to the D-RAP process. Phases I and II are performed by the designer. Phase III is the responsibility of the Combined License applicant.

The NRC determined that it is not acceptable for Westinghouse to complete Phase II following issuance of a design certification for the AP1000 design. Current NRC staff policy does not allow the design certification applicant to carry open items to the post design certification phase. In accordance with the acceptance criteria for Standard Review Plan Section 17.4, RAP, Westinghouse should not have post design certification issues in the DCD for the AP1000 design. Westinghouse may complete this activity prior to issuance of a design certification or the COL applicant may complete this activity. Clarification of this Phase II activity is necessary.

RAI 260.005

- (a) In DCD Section 17.4.7.2.1, Information Available to Combined License Applicant, Revision 0, Westinghouse states:

To support the Combined License applicant's D-RAP Phase III and O-RAP, the following information is provided:

1. The list of risk-significant SSCs identified during the design phase
2. The PRA [Probabilistic Risk Assessment] assumptions for component unavailability and failure data
3. The analyses performed for components identified as major contributors to total risk, with the dominant failure modes identified and prioritized. The suggested means for prevention and mitigation of these failure modes forms the basis for the plant surveillance, testing, and maintenance programs.

The NRC staff cannot find some of this information in Table 17.4-1. The staff is requesting that Westinghouse add appropriate cross-references to DCD Section 17.4.7.2.1 for items 2 and 3 noted above. In addition, the staff is requesting that Westinghouse add the appropriate cross-references in the AP1000 DCD or PRA to DCD Section 17.4.7.2.1 on component unavailability and failure data and the dominant failure modes for SSCs included in the D-RAP.

- (b) In DCD Section 17.4.7.4, Westinghouse provided an example of D-RAP implementation with the automatic depressurization system (ADS) for a selection of components that are in the D-RAP for the AP1000 design. In DCD Section 17.4.7.4, Westinghouse states that “the design and analytical results presented here are intended as an example and do not reflect the current AP1000 design.” The NRC staff determined that this wording is confusing.

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 1ST Ave - #1502
Portland, OR 97201

Barton Z. Cowan, Esq.
Eckert Seamans Cherin & Mellott, LLC
600 Grant Street 44th 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., 3rd 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