

March 11, 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: FEBRUARY 13, 2003, TELEPHONE CONFERENCE CALL SUMMARY

On Thursday, February 13, 2003, a telephone conference call was held with Westinghouse Electric Company (Westinghouse) representatives and Nuclear Regulatory Commission (NRC) staff to discuss the following requests for additional information (RAIs): 471.002, 471.005, 471.008, and 471.009. Westinghouse submitted responses to these RAIs on October 2, 2002 (ADAMS Accession No. ML022810450), November 26, 2002 (ADAMS Accession No. ML023360097), and December 2, 2002 (ADAMS Accession No. ML023400058). A list of call participants is included in Attachment 1. Attachment 2 contains NRC staff comments regarding the subject RAIs that were sent to Mr. Michael Corletti of Westinghouse via electronic mail on February 11, 2003, and were used to facilitate discussions during the telephone conference call.

A brief summary of the discussions regarding the identified RAIs follows (see comments in Attachment 2):

RAI 471.002

Following discussion of the attached comments, the NRC staff determined that no action was necessary from Westinghouse.

RAI 471.005

Westinghouse agreed to contact the NRC staff following completion of their document review.

RAI 471.008

Following discussion of the attached comments, the NRC staff determined that no action was necessary from Westinghouse.

RAI 471.009

Westinghouse agreed to update the RAI response to clarify the basis of the exposure assumptions.

Docket No. 52-006

Attachment: As stated

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Docket No. 52-006

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ACCESSION NUMBER: ML030570570

OFFICE	NRLPO/PM	IEHB/EPHP/SC	NRLPO/DD
NAME	JStarefos:cn	KGibson	MGamberoni
DATE	3/5/03	3/5/03	3/7/03

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FEBRUARY 13, 2003
TELEPHONE CONFERENCE CALL SUMMARY
LIST OF PARTICIPANTS

Nuclear Regulatory Commission

Larry Burkhart
Joseph Colaccino
Joelle Starefos
Charles Hinson

Westinghouse

Mike Corletti
Ed Cummins
Tom Johnson
Tim Meneely
Jim Sejvar
Jim Winters

NUCLEAR REGULATORY COMMISSION
STAFF COMMENTS THAT WERE SENT TO WESTINGHOUSE
TO FACILITATE DISCUSSIONS OF THE RAI RESPONSES
FOR CALL HELD ON FEBRUARY 13, 2003

471.002

From your response to RAI 471.002, it would appear that all of the coolant activity levels listed in Table 11.1-2 (except for the corrosion products Cr-51, Mn-54, Mn-56, Fe-55, Fe-59, Co-58, and Co-60) are somewhat dependent on plant power level since the AP1000 values were all greater than the values for the AP600. Since the corrosion product levels are much more difficult to determine because they are dependent on such variables as reactor coolant system (RCS) materials in contact with the coolant, coolant flow rates, and plant chemistry, confirm that the coolant activity levels for corrosion products listed in Table 11.1-2 were derived based on these other factors (which are similar for the AP600 and the AP1000) and not primarily on reactor power level, and are, therefore, equal for both the AP600 and AP1000 designs.

471.005

In your response to RAI 471.005, you state that appropriate N-16 levels were considered in the preparation of the radiological zone diagrams in Figure 12.3-1. Verify that the increased N-16 levels in the reactor coolant pumps, steam generators, and the reactor coolant piping during operation for the AP1000 (70-80 percent higher than for the AP600) are bounded by the radiological zone diagrams in Figure 12.3-1 (which appear to have the same radiation zones as the AP600).

471.008

I would like to discuss how the post-accident access routes shown in Figure 12.3-2 correlate with the vital areas listed in Table 471.009-1.

471.009

In Table 471.009-1, verify that 5.4 minutes is the estimated time to either ingress or egress the main control room (MCR) (and therefore, over a 30-day period, a person occupying the MCR spends 324 minutes entering and exiting the MCR). The footnote is confusing since it states that the whole body dose (WBD) is based on one person's ingress and egress of the MCR once per day for 30 days.

The valve lineup for the passive containment cooling system is performed in Room 12306 which is rated radiation zone V111 (between 100 rem/hr and 500 rad/hr at T=0). Verify how this operation (which takes a total of 25.8 minutes to perform (including ingress and egress) can be done for a dose of 65 mrem. I assume that the area dose rate in this room must have declined considerably by the time this action is taken (at T= 64 hours).

The alignment of the spent fuel makeup valve is performed in room 12354 (rated radiation zone IX (>500 rad/hr at T=0)). Provide the dose rate for this room at T=64 hours (when the task is performed) and show how this task can be performed for 1.11 rem, as shown on Table 471.009-1.

AP 1000

cc:

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