

December 18, 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 DESIGN CONTROL DOCUMENT  
REVISIONS IN CHAPTER 12

On Wednesday, October 8, 2003, a telephone conference call was held with Westinghouse Electric Company (Westinghouse) representatives and Nuclear Regulatory Commission staff to discuss changes to Chapter 12 of the AP1000 design control document. The call participants are listed in Attachment 1. A summary of the NRC comments and Westinghouse actions to address these comments is included in Attachment 2.

Docket No. 52-006

Attachments: As stated

cc w/atts: See next page

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<b>DATE</b>	<b>12/11/03</b>	<b>12/12/03</b>	<b>12/16/03</b>

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OCTOBER 8, 2003  
TELEPHONE CONFERENCE CALL SUMMARY: CHAPTER 12  
LIST OF PARTICIPANTS

Nuclear Regulatory Commission

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J. Colaccino

Westinghouse

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T. Meneely

AP1000 TELEPHONE CONFERENCE CALL  
DESIGN CONTROL DOCUMENT CHAPTER 12  
OCTOBER 8, 2003

Background:

Westinghouse issued Revision 7 to the AP1000 design control document (DCD) on September 15, 2003. In the transmittal letter, Westinghouse noted that some changes were made to DCD Tier 2, Chapter 12, "Radiation Protection." Specifically, certain area zone dose rates were modified. This is related to NRC request for additional information (RAI) 471.009, concerning the time motion study. NRC Staff review of the changes in Revision 7 the DCD revealed that some dose rates appear to have increased while some have decreased. In addition, some routes were modified and the dose rates in the main control room increased from zone 2 to zone 4.

The NRC staff noted during this conference call an additional item unrelated to the changes discussed above.

NRC Staff Questions:

- 1) Are the current dose rates consistent with the response Westinghouse provided to RAI 471.009 or should the response be revised?
- 2) Please explain the increased dose rates in the main control room.
- 3) Please review the apparent omission of a statement in DCD Tier 2, Chapter 12, concerning the availability of adequate illumination and support services at workstations.

Westinghouse Responses:

- 1) Detailed calculations were performed to address RAI 471.009. The results of these calculations were provided in Revision 7 to the AP1000 DCD. Therefore, the RAI response is consistent with DCD with the exception of a change to one access route. Westinghouse noted that the dose rates were conservatively high because of the rerouting. Therefore, it was not necessary to revise the response to RAI 471.009.
- 2) The excursion into zone 4 is brief (less than 12 hours) and is attributed to the electrical penetrations. The RAI considers the highest dose response.

[After additional discussion with the NRC staff, Westinghouse stated that they would revise DCD Tier 2, Figure 12.3.2, Note 1, to describe the time the main control room would be in zone 4.]

- 3) Westinghouse stated that they would review this issue further.

[Subsequent to the conference call, Westinghouse agreed to revise the DCD to include this statement.]

AP 1000

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