

September 11, 2003

MEMORANDUM TO: Laura A. Dudes, Chief  
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Division of Regulatory Improvement Programs  
Office of Nuclear Reactor Regulation

FROM: Joelle L. Starefos, Project Manager */RA/*  
New Reactors Section  
New, Research and Test Reactors Program  
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Office of Nuclear Reactor Regulation

SUBJECT: JULY 29, 2003, AP1000 TELEPHONE CONFERENCE CALL SUMMARY

On Tuesday, July 29, 2003, a telephone conference call was held with Westinghouse Electric Company (Westinghouse) representatives and Nuclear Regulatory Commission (NRC) staff to discuss AP1000 containment sump issues. The NRC staff has four unresolved draft safety evaluation report (DSEER) open items associated with containment sumps: 6.2.1.8.2-1, 6.2.1.8.3-1, 6.2.1.8.3-2, and 6.2.1.8.3-3. Westinghouse submitted responses to these RAIs on June 23, 2003 (ADAMS Accession No. ML031760598). A list of call participants is included in Attachment 1.

The following is a brief summary of the discussions regarding identified topics:

#### Westinghouse Calculation

Westinghouse acknowledged the need to review their sump strainer blockage calculation. Westinghouse indicated that they have acquired a copy of the BLOCKAGE code that NRC uses, and have a copy of NRC NUREG/CR-6224, "Parametric Study of the Potential for BWR ECCS Strainer Blockage Due to LOCA Generated Debris." Westinghouse indicated plans to do some reevaluation of their calculations.

The NRC staff noted that the particulate to fiber test ratio is equal to one in the Westinghouse calculation. The staff questioned what the results would show if the value was varied. Westinghouse indicated that they tried to consider a worst case scenario that all the fibers would make it to the sump screen. However, Westinghouse stated that they would look at varying the ratio value for sensitivity of all fibers not making it to the screen.

#### Types of Fibers

The NRC staff questioned the basis for the type of debris that Westinghouse was using in their evaluation.

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Westinghouse indicated that the industry was taking some samples and that they would look at a couple of different types of fibers.

Trapping in Containment

Westinghouse indicated that they would take credit for non-participating debris.

The NRC staff indicated that this sounded like a reasonable approach.

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JULY 29, 2003  
TELEPHONE CONFERENCE CALL SUMMARY  
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