

October 16, 2003

MEMORANDUM TO: L. Raghavan, Chief, Section 1  
Project Directorate III  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

FROM: John G. Lamb, Project Manager, Section 1 /RA/  
Project Directorate III  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF MEETING BETWEEN THE NUCLEAR REGULATORY  
COMMISSION STAFF AND STAKEHOLDERS CONCERNING  
GENERIC SAFETY ISSUE 191, "ASSESSMENT OF DEBRIS  
ACCUMULATION ON PWR SUMP PERFORMANCE"  
(TAC NO. MA6454)

The Nuclear Regulatory Commission (NRC) staff met with stakeholders at NRC Headquarters on September 10, 2003, concerning Generic Safety Issue (GSI) 191, "Assessment of Debris Accumulation on [Pressurized-Water Reactor] PWR Sump Performance." Attachment 1 lists the meeting participants. A public meeting notice for the subject meeting was issued on August 13, 2003, and a copy of the meeting notice (including the meeting agenda) was posted on the NRC's external (public) web page (ADAMS Accession No. ML032250132). This was a Category 2 Meeting. The public was invited to participate in this meeting for discussing regulatory issues with the NRC staff at designated points identified on the agenda.

The purpose of the meeting was to discuss the testing and analysis necessary to address the chemical precipitation issue on a timescale which is consistent with the NRC's current plan for resolving GSI-191. The meeting consisted of three main areas: (1) a general discussion of the issue between the NRC staff, Nuclear Energy Institute (NEI) representatives, and industry representatives, (2) presentations by industry representatives regarding chemical/temperature effects on containment sump head loss and protective coating design-basis analysis (DBA) testing, and (3) an opportunity for public discussion.

The NRC staff stated that testing shows that chemical and temperature-induced degradation mechanisms could possibly contribute to debris generation and containment sump head loss.

Industry representatives gave presentations on the chemical/temperature effects on containment sump head loss (Attachment 2) and protective coating DBA testing (Attachment 3).

There was a great deal of discussion regarding chemical testing and the potential for gelatinous material forming. Questions arose about the corrosion products, conditions that lead to corrosion products, and chemical test conditions and whether those test conditions actually represent a PWR water chemistry environment. The NRC staff stated that its test results are not conclusive at this point. The NRC staff suggested that NEI could pursue the issue of chemical effects testing with the industry. NEI representatives indicated that they would consider this option and would let the NRC know of their decision.

The NRC staff handed out its "Comments on NEI Draft Guidance" (Attachment 4).

- Attachments:
1. Meeting Attendees
  2. Industry Handout - "Chemical/Temperature Effects on Containment Sump Head Loss"
  3. Industry Handout - "OEM Protective Coating DBA Testing"
  4. NRC Handout - "Comments on NEI Draft Guidance"

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OFFICE	PDIII-1/PM	PDIII-1/PM	PDIII-1/SC
NAME	JLamb	RBouling	LRaghavan
DATE	10/16/03	10/16/03	10/16/03

OFFICIAL RECORD COPY

LIST OF ATTENDEES

MEETING BETWEEN THE NUCLEAR REGULATORY COMMISSION (NRC) STAFF  
AND STAKEHOLDERS CONCERNING  
GENERIC SAFETY ISSUE 191, "ASSESSMENT OF DEBRIS ACCUMULATION  
ON PWR SUMP PERFORMANCE"

WEDNESDAY, SEPTEMBER 10, 2003

<u>NAME</u>	<u>ORGANIZATION</u>
B. Sheron	NRC/Office of Nuclear Reactor Regulation (NRR)
S. Weerakkody	NRC/NRR
J. Hannon	NRC/NRR
R. Architzel	NRC/NRR
S. Black	NRC/NRR
M. Johnson	NRC/NRR
K. Parczewski	NRC/NRR
J. Lamb	NRC/NRR
L. Lund	NRC/NRR
M. Murphy	NRC/NRR
T. Hsia	NRC/Office of Nuclear Regulatory Research (RES)
M. Evans	NRC/RES
T. Chang	NRC/RES
J. Davis	NRC/RES
M. Dingler	Wolf Creek/WOG
T. Eckert	Electric Power Research Institute
*J. Gisclom	Electric Power Research Institute
J. Butler	Nuclear Energy Institute
C. Hunter	Exelon
G. Hart	PCI
G. Zigler	ITS Corp.
G. Dolderef	FPL/NUCL
G. Geaney	MPR Associates
C. Schlaseman	MPR Associates
G. Twachtman	McGraw Hill
M. Friedman	OPPD
B. Letellier	Los Alamos
K. Anstee	Constellation Energy - Calvert Cliffs
P. Gunter	NIRS
D. Lochbaum	Union of Concerned Scientists
*T. Andreychek	Westinghouse
*T. Pietrangelo	NEI
*A. Smith	Enercon
*G. Harrington	TXU
*L. Williams	Framatone
*G. Quitoriano	PG&E

\*Participated in the meeting via teleconference

ATTACHMENT 1