

October 26, 2006

FACILITY: ELECTRIC POWER RESEARCH INSTITUTE
PALO ALTO, CALIFORNIA

SUBJECT: SUMMARY OF OCTOBER 17 AND 18, 2006 MEETING WITH
ELECTRIC POWER RESEARCH INSTITUTE ON MATERIALS
ENGINEERING RESEARCH PROGRAMS

On October 17 and 18, 2006, a Category 2 public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff from the Office of Nuclear Regulatory Research (RES) and representatives of the Electric Power Research Institute (EPRI) at EPRI in Palo Alto, California. The purpose of the meeting was to discuss evaluations of primary system materials degradation mechanisms and associated research programs.

Representatives from the EPRI Materials Reliability Program (MRP) and BWR Vessel and Internals Program (BWRVIP) presented the Materials Degradation Matrix (MDM) and the BWR and PWR Issue Management Tables (IMTs). The MDM is arranged by plant type, component, materials and degradation mechanism, and contains a series of hyperlinks, including footnotes. The MDM is also color-coded in order to identify areas that need further or future research. The IMTs incorporate the information from the MDM and are used as tools for assessing vulnerabilities and priorities for materials degradation research. The output of the IMTs is a PWR and BWR gap analysis and prioritization of future work. EPRI presented the methodology and the results of the gap analysis which may revise current work and define future research. The NRC then presented the majority of the RES programs, with the exception of non-destructive examination and fuels. The NDE programs will be discussed at length at the EPRI NDE center the week of October 23. The EPRI fuels activities have been organized into a separate MDM/IMT structure, which will be reviewed at a future meeting.

An overview of the NRC's Proactive Materials Degradation Assessment (PMDA) was presented. Robin Jones of EPRI was a participant in both the PMDA and MDM efforts, and noted that the information gained from both activities is mostly very consistent. EPRI also presented specific research on corrosion mechanisms, steam generators, water chemistry efforts, and the new plant initiative.

Please direct any inquiries to me at (301) 415-7143, or adw1@nrc.gov.

Enclosures: 1. Agenda
2. List of Attendees

At the end of the meeting, EPRI and NRC committed to evaluate the MDM, IMT, and PMDA to identify areas of mutual interest. The NRC and EPRI agreed to meet on a semi-annual basis, with February 2007 proposed for the next meeting. A member of the public was in attendance, and a public meeting feedback form was not received.

Sincerely,

/RA/ Eric Reichelt for

Andrea D. Valentin, Branch Chief
Corrosion and Metallurgy Branch
Division of Fuels, Engineering and Radiological Research
Office of Nuclear Regulatory Research

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Division of Fuels, Engineering and Radiological Research
Office of Nuclear Regulatory Research

DISTRIBUTION: DFERR r/f ME r/f B. Sheron J. Wiggins M. Cunningham
 B. Bateman A. Valentin R. Hardies W. Cullen A. Csontos
 A. Chapeton

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OFFICE	DFERR/ME		DFERR/ME		DFERR		DFERR/ME	
NAME	A. Valentin		SUNSI Review (originator)		Div. Secretary Andrea V. For		J. Uhle Andrea V. For	
DATE	10/26 /06		10 /26 /06		10 /26 /06		10 /26 /06	

EPRI-NRC Meeting on Materials Research and Development

AGENDA

October 17, 2006

8:00 a.m.	Welcome and Logistics	Robin Jones
8:15	Meeting Objectives and Review Agenda	Robin Jones/J. Uhle
8:30	Materials Degradation Matrix	Robin Jones
9:15	History Behind Today's BWR IMT	Robin Dyle
9:45	BWR IMT Structure/Format	Robin Dyle
10:15	Break	
10:30	BWR IMT Structure/Format	Robin Dyle
11:00	BWR Gap Prioritization	Robin Dyle
11:15	BWR Gap Results	Robin Dyle
12:00	Lunch	
1 :00	PWR IMT Structure/Format	D. Steininger
1:30	PWR Gap Prioritization Methodology	D. Steininger
2:00	Gap Prioritization Results	D. Steininger
2:30	Coordination with Owners Group, BWRVIP, International Organizations	D. Steininger
2:45	NRC Materials Research	NRC
3:15	Break	
3:30	NRC Materials Research	NRC
4:30	NRC PMDA–Introduction	NRC
5:30	Adjourn	

October 18, 2006

8:00 a.m.	Recap of Yesterday's Events	Robin Jones
8:15	Continuation of NRC Research	
10:00	EPRI MRP Materials Research	C. King/MRP Personnel
11:00	EPRI Corrosion Research	Raj Pathania
12:00	Working Lunch/Steam Generator Research	M. Behravesch
12:45	Water Chemistry Efforts (Primary and Secondary {SG})	K. Fruzzetti
2:00	BWRVIP Materials Research	R.Stark/BWRVIP Personnel
2:45	New Plant Initiative	Tom Mulford
3:15	Break	
3:30	Identification of Areas of Mutual Interest	All
4:00	Conclusions and Action Items	All
5:00	Adjourn	

List of Attendees
Evaluations of Primary System Materials Degradation Mechanisms and Associated
Research Programs.
October 17 and 18, 2006

NAME	AFFILIATION
Robin Jones	EPRI
David Steininger	EPRI
Randy Stark	EPRI
David Modeen	EPRI
Thomas Jordan	South Texas Project
Christine King	EPRI
Robin Dyle	Southern Nuclear
Raj Pathania	EPRI
Mohamad Behraves	EPRI
Keith Fruzzetti	EPRI
Tom Mulford	EPRI
Shannon Chu	EPRI
Jennifer Uhle	NRC
Robert Hardies	NRC
Andrea Valentin	NRC
William Cullen	NRC
Aladar Csontos	NRC
Randy Lott	Westinghouse