

February 3, 2014

MEMORANDUM TO: Patrick L. Hiland, Director  
Division of Engineering  
Office of Nuclear Reactor Regulation

FROM: Robert O. Hardies, Senior Level Advisor /RA/  
Division of Engineering  
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF JUNE 5-7, 2013, ANNUAL MATERIALS  
PROGRAMS TECHNICAL INFORMATION EXCHANGE PUBLIC  
MEETING

On June 5-7, 2013, the U.S. Nuclear Regulatory Commission (NRC) staff hosted a Category 2 public meeting at NRC headquarters in Rockville, MD to discuss material program activities. Attendees included representatives from the Materials Subcommittee of the Pressurized Water Reactor (PWR) Owners Group (PWROG MSC), the Electric Power Research Institute's (EPRI's) Boiling Water Reactor (BWR) Vessel Internals Program (BWRVIP), EPRI's Materials Reliability Program (MRP), EPRI's Non-destructive Examination Improvement Focus Group (NIFG), EPRI's Non-destructive Examination Center (NDE Center), EPRI's Primary System Corrosion Research Committee, and EPRI's Welding and Repair Technology Center (WRTC). There were no public attendees.

The NRC staff and industry representatives discussed progress in materials programs designed to provide information related to stress corrosion cracking, non-destructive examination, reactor vessel surveillance, dissimilar metal welds, and vessel internals examination, among other topics. Presentations are available electronically in the NRC's Agencywide Documents Access and Management System (ADAMS) under accession number ML13161A186. The meeting notice and agenda are also available in ADAMS under accession number ML13142A183.

Communications between the NRC staff and industry materials programs technical leads occurs on an ongoing basis during quarterly telephone calls and this annual meeting. Executive level interactions occur during a separate annual executive session and during a semi-annual telephone conference. Action items from this technical exchange meeting have been separated into categories that reflect whether they will be tracked as technical or executive /management level activities.

The following actions items were noted:

Action for executive session:

- Industry executives will discuss implications on NRC's request that ASME develop a Code approach for non-visual examination of bottom mounted instrument nozzles.

- NRC will discuss the effects of sequestration on NRC activities, including research.
- Action for executive session: As noted on page 33 of the BWRVIP presentation, when reviewing documents the NRC staff has been questioning and issuing RAIs related to the technical bases for documents that the NRC has already approved, effectively reopening issues that the NRC and industry have already resolved.

Action for quarterly call:

- NRC will evaluate whether it is permissible to put the words “or latest NRC approved revision” into the next GALL revision.
- The BWRVIP will report on the status of the General Electric safety communication related to acoustic and recirculation line break loads.
- The NRC will discuss the MRP conclusion related to the Generic Aging Lessons Learned report and re-use of surveillance specimens in enhanced surveillance programs.
- The PWROG will determine whether they may wish to submit their Outside Diameter Stress Corrosion Cracking report to the NRC as requested by NRC staff.
- MRP, WRTC and NRC will discuss progress in sharing information on the potential negative effects of high weld residual stress on long term reliability of welds with ASME Section III and Section XI.
- NRC and MRP will discuss coordination between requirements of MRP 227, the Interim Staff Guidance and Westinghouse report WCAP-17096.
- NRC and MRP will coordinate technical exchange with the NRC reviewing organization for the MRP peening report.
- EPRI now maintains a comprehensive list of needed and mandatory items as detailed in NEI-03-08, Rev. 2, “Guideline for the Management of Materials” dated January 2010, ADAMS accession number ML102880028. The list is available on the EPRI website, but is only available to members. EPRI will check to see how the NRC will be able to access the list.
- NRC will evaluate revising the GALL report to include reference to the industry’s Materials Degradation Matrix instead of referring to older assessment tools.
- NRC and WRTC will discuss sharing of specimens being made for the excavate-and-weld-repair project.
- EPRI and NRC will meet during the fall of 2013 to discuss progress on industry generic evaluations of quasi-laminar indications in reactor pressure vessel forgings.

- The MRP will evaluate risk-informing ASME Appendix G impact using collected information about the way installed equipment can limit potential heat-up and cooldown options. The MRP will share the information on equipment-related constraints.
- The NRC and BWRVIP will establish communications related to the effects of leak test pressure on Appendix G limits.
- NRC and MRP will share information on the metallurgical analysis of the bottom mounted instrument nozzle at Gravelines, if the information becomes available.
- NRC to provide to EPRI, by August 2013, information describing the effects of sequestration on collaborative activities being performed under MOUs.
- NRC and MRP will coordinate activities related to scheduling responses for MRP-227, action item 7 on cast austenitic stainless steel.
- NRC to consider BWRVIP request that any revision to Appendix H should revise the capsule testing/reporting schedule requirement from one year to 1.5 or 2 years to facilitate capsule transportation and testing logistics.
- BWRVIP and MRP will investigate the different approaches being applied to request safety evaluations (BWRs typically request two SEs, one for current license and one for extended operation; PWRs typically request one SE without specifying whether for current or extended operation) to determine whether a process change is warranted.
- NDE Integration Committee to advise NRC when NIFG is dissolved and how that scope of work will be addressed.

Please direct any inquiries to Robert Hardies at 301-415-5802 or [Robert.Hardies@nrc.gov](mailto:Robert.Hardies@nrc.gov).

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**ADAMS Accession Nos.:**  
**Package: ML14003A244**  
**Summary: ML14003A230**  
**Meeting: Notice: ML13142A183**

<b>OFFICE</b>	<b>NRR/DE</b>
<b>NAME</b>	<b>RHardies</b>
<b>DATE</b>	<b>02/03/2014</b>

**OFFICIAL RECORD COPY**

## **List of Attendees:**

<b>NRC</b>	<b>Industry</b>
David Alley	Al Ahluwalia, EPRI (kahluwal@epri.com)
Ganesh Cheruvenki	Kyle Amberge, EPRI (kamberge@epri.com)
Jay Collins	Robin Dyle, EPRI (rdyle@epri.com)
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Steve Cumblidge	Kevin Hacker, Dominion / NDE (kevin.j.hacker@dom.com)
Bob Davis	Tim Hardin, EPRI (thardin@epri.com)
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Mirela Gavrilas	Ed Fernandez, APS / PWROG (Edison.Fernandez@aps.com)
Robert Hardies	T. G. Lian, EPRI (tlian@epri.com)
Allen Hiser	Heather Malikowski, Exelon / MRP (Heather.Malikowski@exeloncorp.com)
Keith Hoffman	Jim Molkenthin, Westinghouse / PWROG (molkenjp@westinghouse.com)
John Honcharik	Dan Patten, FENOC, WRTC (dpatten@firstenergycorp.com)
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Jeff Poehler	Tim Wells, Southern Nuclear / MRP (tgwells@southernco.com)
Stacy Rosenberg	Chuck Wirtz, FENOC / BWRVIP (cjwirtz@firstenergycorp.com)
David Rudland	
Rob Tregoning	

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