

February 4, 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 INDUSTRY/U.S. NUCLEAR REGULATORY
COMMISSION ANNUAL MATERIALS PROGRAMS INFORMATION
EXCHANGE – EXECUTIVE SESSION (CATEGORY 2 PUBLIC
MEETING)

On July 17, 2013, staff from the U.S. Nuclear Regulatory Commission (NRC) met with representative of the nuclear industry in the annual executive session on materials programs. The purpose of the annual meeting is to discuss, from a management perspective, Office of Nuclear Reactor Regulation (NRR) and Office of Nuclear Regulatory Research (RES) issues related to pressurized water reactor (PWR) and boiling water reactor (BWR) materials issues with the Electric Power Research Institute (EPRI) Materials Reliability Program (MRP), EPRI BWR Vessels and Internals Project (BWRVIP), EPRI Nondestructive Examination (NDE) Action Plan Committee (APC), EPRI Steam Generator Management Program (SGMP), Institute of Nuclear Power Operations (INPO), and the PWR Owners Group (PWROG) Materials Subcommittee (MSC) executive representatives. Attachment 1 is a list of attendees at the meeting. Copies of the presentations from the meeting can be found in the Agencywide Document and Management System package ML13197A455.

After some introductory remarks by the NRC staff, the executive sponsor of the EPRI Materials Action Plan Committee, a representative from Duke Energy, reviewed challenges and successes in the industry materials programs. The presentation focused on the Nuclear Energy Institute (NEI) Materials Initiative NEI 03-08 activities, strategic plan, guidelines, recent operating experience, and program successes.

The executive sponsor of the BWRVIP, an executive from Southern Company, discussed the BWRVIP organization, technical committee responsibilities, ongoing research, fiscal year 2014 expected submittals to the NRC, and topical report review challenges. The executive sponsor of the MRP, an executive from Exelon Corporation, presented a summary of MRP membership and organization, key 2013 deliverables and research areas, key ASME Code and NRC Interactions, T_{cold} RPV Closure Head and BMN activities, quasi-laminar indications in reactor pressure vessel beltline ring forgings and reactor internals guideline support.

The executive sponsor of the SGMP provided an overview of the SGMP purpose, membership and standing agenda. The presentation covered open technical issues, guidelines revision status and key 2013-2014 activities. The executive from Duke Energy representing the PWROG MSC outlined the MSC core team organization and key strategic areas. The

presentation discussed the MSC key deliverables completed in 2013, key focus activities in 2014 and emerging issues.

The executive sponsor of the EPRI NDE APC made a presentation on reliability issues associated with ultrasonic examination. The presentation address the NDE Implementation Focus Group status, recent operating experience related to NDE reliability and research directions to further address NDE improvement. Finally, EPRI presented an overview of issues associated with long term operation of plants. The focus of the presentation was key research and development areas that dealt with life limiting components, opportunities for modernization, and enabling technologies.

Following the industry presentations, the staff discussed the effects of sequestration on research activities and highlighted recent operating experience associated with materials degradation.

This concluded the discussions among the staff and industry. There were no external stakeholders in attendance.

The following new action items were recorded:

1. The Welding Repair Technology Center (WRTC) will check on the availability to provide the NRC the white paper on welding processes (slide 11 of MAPC presentation package).
2. The WRTC will engage the staff (NRR and RES) on advanced welding techniques by providing program descriptions, schedule and status. Consider having a meeting at the NDE Center in Charlotte to see demonstrations.
3. BWRVIP staff will arrange a meeting with NRC staff on General Electric Hitachi safety communications in Fall 2013.
4. NRC staff will provide feedback on the 2014 submittal schedule to the BWRVIP staff.
5. Industry will investigate the ultrasonic examination techniques used for new reactors to determine whether they are capable of detecting quasi-laminar indications.
6. The PWROG will provide the staff data estimates for zinc and hydrogen credit for pressurized water reactor crack mitigation.
7. BWRVIP will inform its member utilities that submittals that reference planned use of revisions to BWRVIP reports that were previously NRC-approved reports should include an assessment of deltas between the submitted and the approved revisions.
8. Industry will disseminate information to licensees that pressure-temperature curve submittals should be made at least 18 months before approval is needed.

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ML Summary: ML14034A378

ML Meeting: Notice: ML13177A307

OFFICE	NRR/DE
NAME	RHardies
DATE	02/04/2014

OFFICIAL RECORD COPY

List of Attendees

July 17, 2013
Industry/U.S. Nuclear Regulatory Commission Annual Materials Programs
Information

Name	Organization
Sheldon Stuchell	U.S. Nuclear Regulatory Commission
Robert Hardies	U.S. Nuclear Regulatory Commission
Timothy Lupold	U.S. Nuclear Regulatory Commission
Rob Tregoning	U.S. Nuclear Regulatory Commission
Robert Davis	U.S. Nuclear Regulatory Commission
Al Csontos	U.S. Nuclear Regulatory Commission
Michael Case	U.S. Nuclear Regulatory Commission
Brian Thomas	U.S. Nuclear Regulatory Commission
John Lubinski	U.S. Nuclear Regulatory Commission
Michael Cheok	U.S. Nuclear Regulatory Commission
Stacey Rosenberg	U.S. Nuclear Regulatory Commission
Allen Hiser	U.S. Nuclear Regulatory Commission
Chuck Wirtz	First Energy
Sherry Bernhoft	EPRI
Greg Selby	EPRI
Robin Dyle	EPRI
Scot Greenlee	Exelon
Mike Robinson	Duke
Joe Donahue	Duke
Dennis Madison	Southern Nuclear
Mike Gallagher	Exelon

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