



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

November 23, 2022

MEMORANDUM TO: Ngola A. Otto, Acting Chief
Licensing Projects Branch
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

FROM: Lois M. James, Senior Project Manager /RA/
Licensing Projects Branch
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

SUBJECT: MEETING BETWEEN NUCLEAR REGULATORY COMMISSION
STAFF AND ELECTRIC POWER RESEARCH INSTITUTE TO
DISCUSS THE PROCESS FOR REVIEWING TECHNICAL
REPORT MRP-227, REVISION 2, "MATERIALS RELIABILITY
PROGRAM: PRESSURIZED WATER REACTOR INTERNALS
INSPECTION AND EVALUATION GUIDELINES"
(EPID L-2022-TOP-0029)

On November 7, 2022, the U.S. Nuclear Regulatory Commission (NRC) staff met with representatives from the Electric Power Research Institute (EPRI) to discuss the process for reviewing Technical Report MRP-227, Revision 2, "Materials Reliability Program: Pressurized Water Reactor Internals Inspection and Evaluation Guidelines." The meeting summary is enclosed as Enclosure 1 and the list of attendees is enclosed as Enclosure 2.

If you have any questions or comments, please contact me via email at Lois.James@nrc.gov.

CONTACT: Lois M. James, NRR/DORL
301-415-3306

Docket Nos. 99902021

Enclosures:
1. Meeting Summary
2. List of Attendees

U.S. Nuclear Regulatory Commission Public Meeting Summary

Title: U.S. Nuclear Regulatory Commission (NRC) Staff Meeting with Electric Power Research Institute (EPRI) Representatives to Discuss the Process for Reviewing Technical Report MRP-227, Revision 2, “Materials Reliability Program: Pressurized Water Reactor Internals Inspection and Evaluation Guidelines”

Date of Meeting: November 7, 2022, 2:00 pm – 3:00 pm

Location: Webinar

Type of Meeting: This was an Observation Meeting. The attendees had an opportunity to observe the NRC performing its regulatory function or discussing regulatory issues. The attendees had an opportunity to ask questions of the NRC staff and to make comments about the issues discussed following the business portion of the meeting; however, the NRC is not actively soliciting comments towards regulatory decisions at this meeting.

Purpose of the Meeting:

To Discuss the Process for Reviewing Technical Report MRP-227, Revision 2, “Materials Reliability Program: Pressurized Water Reactor Internals Inspection and Evaluation Guidelines.”

General Details:

The NRC staff held an observational meeting with the EPRI representatives to discuss the process for reviewing Technical Report MRP-227, Revision 2, “Materials Reliability Program: Pressurized Water Reactor Internals Inspection and Evaluation Guidelines.” The meeting began at 2:00 pm and ended 2:35 pm. There were nine NRC staff members, three EPRI, sixteen members of industry, and no members of the public or individuals who did not identify their affiliation. The meeting began with introductions of the NRC staff, EPRI representatives, and industry staff.

Summary of the Meeting:

The NRC staff began the meeting by describing the history of its review of Revision 2 of Technical Report MRP-227, “Materials Reliability Program: Pressurized Water Reactor Internals Inspection and Evaluation Guidelines.” The NRC staff accepted MRP-227, Revision 2, for review in the summer of 2022 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML22145A401). The NRC staff opted for a “Standard Review” in accordance with the Office of Nuclear Reactor Regulation Office Instruction LIC-500, “Topical Report Process” (ADAMS Accession No. ML20247G279) which includes the following steps:

- acceptance review,
- regulatory audit,
- request for additional information (RAI),
- a draft safety evaluation (SE),
- final SE, and
- version -A TR with staff verification.

The Standard Review was chosen because:

- Number and the complexity of changes in MRP-227, Revision 2, versus MRP-227, Revision 1-A
- Methodology in MRP-227, Revision 2, assesses aging over an 80-year service period versus MRP-227, Revision 1-A, only assessed aging over a 60-year service period
- Potential logistics issues
- Bases for some component-specific screening or inspection and evaluation have been revised in MRP-227, Revision 2, versus MRP-227, Revision 1-A
 - Revisions to Applicant/Licensee Action Item Resolution
 - Referencing of WCAP-17096-NP-A, Revision 2
 - MRP-227, Revision 2, discusses use of MRP-211 and BWRVIP-100, Revision 1-A, lower bound fracture toughness value methods
 - MRP-227, Revision 2, references Crack Growth Model in EPRI Report No. 3002003103

EPRI representatives pointed out an error on presentation Slide 5. The reference to EPRI letter MRP 2021-019 was incorrect. The correct reference is EPRI BWRVIP 2021-030, "Electric Power Research Institute - 2021-030, Potential Non-Conservatism in EPRI Report, BWRVIP-100, Rev. 1-A, 3002008388 and Impacted BWRVIP Reports" (ADAMS Accession No. ML21084A164).

Public Participation Themes:

No member of the public spoke during the meeting.

Attachments:

Meeting description and agenda – ADAMS Accession No. ML22300A059
NRC slide presentation– ADAMS Accession No. ML22311A080

U.S. Nuclear Regulatory Commission Public Meeting Attendees

Title: U.S. Nuclear Regulatory Commission (NRC) Staff Meeting with Electric Power Research Institute (EPRI) Representatives to Discuss the Process for Reviewing Technical Report MRP-227, Revision 2, "Materials Reliability Program: Pressurized Water Reactor Internals Inspection and Evaluation Guidelines"

NRC Participants

Name	Affiliation
David Dijamco	NRC
Allen Hiser	NRC
Lois James	NRC
James Medoff	NRC
Carol Moyer	NRC
David Rudland	NRC
John Tsao	NRC
Christopher Tyree	NRC
Dan Widrevitz	NRC

EPRI Participants

Name	Affiliation
Kyle Amberge	EPRI
James Cirilli	EPRI
Randy Stark	EPRI

Industry Participants

Name	Affiliation
Dale E Turinetti	American Electric Power
Ramon Cruz	Constellation Nuclear
Kemper Young	Constellation Nuclear
Sarah DavidSaver	Framatome Inc. (Framatome)
Ryan Hosler	Framatome
Stacy Yoder	Framatome
Shane Webb	NextEra Energy
Kris Garg	Public Service Enterprise Group
Corey Thomas	Southern Nuclear Company
Tyler Bro	Westinghouse Electric Company (WEC)
Geoffrey Campbell	WEC
Ernest Deemer	WEC
Joshua K. McKinley	WEC
James P Molkenthin	WEC
Tim L. O'Connor	WEC
Tyler Whaley	WEC

SUBJECT: MEETING BETWEEN NUCLEAR REGULATORY COMMISSION STAFF AND ELECTRIC POWER RESEARCH INSTITUTE TO DISCUSS THE PROCESS FOR REVIEWING TECHNICAL REPORT MRP-227, REVISION 2, "MATERIALS RELIABILITY PROGRAM: PRESSURIZED WATER REACTOR INTERNALS INSPECTION AND EVALUATION GUIDELINES" (EPID L-2022-TOP-0029) DATED NOVEMBER 23, 2022

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JMedoff, NRR	

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ADAMS Accession Nos.: ML22311A089 ***via email** **NRR-106**

OFFICE	DORL/LLPB/PM	DORL/LLPB/LA	DNRL/NVIB/TR
NAME	LJames*	DHarrison	JMedoff
DATE	11/07/2022	11/10/2022	11/16/2022
OFFICE	DNRL/NVIB/BC	DORL/LLPB/BC	DORL/LLPB/PM
NAME	DWidrevitz (A)	NOtto (A)	LJames
DATE	11/16/2022	11/16/2022	11/23/2022

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