

June 15, 2017

MEMORANDUM TO: David W. Alley, Chief
Component Performance, NDE, and Testing Branch
Division of Engineering
Office of Nuclear Reactor Regulation

FROM: Ali Rezai, Materials Engineer **/RA/**
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SUBJECT: SUMMARY OF MAY 23-25, 2017, ANNUAL INDUSTRY / U.S.
NUCLEAR REGULATORY COMMISSION MATERIALS PROGRAMS
TECHNICAL INFORMATION EXCHANGE PUBLIC MEETING (CAC
NUMBER AR0852)

On May 23-25, 2017, the U.S. Nuclear Regulatory Commission (NRC) met with representatives from the nuclear industry for an exchange of technical information on the industry's ongoing materials programs, in particular as related to the integrity of reactor pressure vessels, reactor vessel internals, and piping. The industry representatives included staff from the Electric Power Research Institute (EPRI), the Pressurized Water Reactor (PWR) Owners Group (PWROG), licensees and vendor companies. Many of the licensees' representatives also hold advisory roles to the EPRI Materials Reliability Program (MRP), EPRI Boiling Water Reactor (BWR) Vessel and Internals Project (BWRVIP), PWROG Materials Committee (MSC), EPRI Welding Repair and Technology Program (WRTC) and EPRI Primary Systems Corrosion Research (PSCR). In addition, members of the public participated by teleconference.

All presentations and information related to this public meeting (e.g., meeting notice, agenda, presentations and list of attendees) are available on the NRC's Agencywide Documents Access and Management System (ADAMS), Accession No. ML17131A007.

After discussions on each presentation, the following action items were identified:

- 1) EPRI will provide additional information on the crack orientation and size of flaws identified in the thermal fatigue operating experience slide (slide 11).
- 2) NRC staff will consider how to include the vendor research findings on peening and weld residual stresses in the NRC confirmatory peening research.
- 3) NRC staff will determine the best way to respond to prior comments from the MRP on the NRC peening research.
- 4) NRC staff will consider providing the draft NUREG on weld residual stress for comment

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- 5) EPRI will provide updated slides in the "Welding Issues and Code Applications" presentation to correct the status of ASME Code Case N-871 and to include an NRC report in the references.
- 6) PWROG will provide updated information about the first and second reviews of inspection video that identified guide card wear, as described in the "Guide Card Wear Activities Update" presentation.
- 7) NRC staff will provide additional detail in the form of a list, template or similar, for the NRC presentation on suggestions for flaw evaluations related to relief request submittals (presentation 23).

During open discussions period, the meeting participants noted that this meeting provided an excellent venue for exchanging technical information of mutual interest.

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