

October 26, 2017

MEMORANDUM TO: Dennis C. Morey, Chief
Licensing Processes Branch
Division of Licensing Projects
Office of Nuclear Reactor Regulation

FROM: Jonathan G. Rowley, Project Manager /RA/
Licensing Processes Branch
Division of Licensing Projects
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF SEPTEMBER 7, 2016, MEETING WITH THE
PRESSURIZED WATER REACTOR OWNERS GROUP
REGARDING COLD-WORK ASSESSMENT RESULTS

On September 7, 2016, a meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff and the Pressurized Water Reactor Owners Group (PWROG). The purpose of this meeting was for the PWROG and the NRC staff to discuss the results of the PWROG's efforts on cold-work and discuss the technical report PWROG-15105-NP, Revision 0, "PWR RV [Pressurized Water Reactor Reactor Vessel] Internals Cold-Work Assessment." The PWROG submitted PWROG-15105-NP, Revision 0, "PA-MS-1288 PWR Reactor Vessel Internals Cold Work Assessment," to the NRC for information only by letter dated June 15, 2016 (Agencywide Documents Access and Management System (ADAMS) at Accession No. ML16222A299).

Operational experience and laboratory experiments suggests that stainless steel components are susceptible to stress corrosion cracking (SCC) when exposed to cold work greater than twenty percent. Cold working that was introduced during fabrication of the reactor vessel internal (RVI) components could enhance the initiation and propagation of SCC in these components. In order to respond to Part 1 of Applicant/Licensee Action Item 1 (A/LAI 1) of NRC staff safety evaluation (SE) for MRP-227-A, "Materials Reliability Program Report, Pressurized Water Reactor (PWR) Internals Inspection and Evaluation Guidelines," the PWROG developed and submitted generic evaluation report PWROG-15105-NP, Revision 0. In this report, PWROG had developed technical bases to support a generic approach to review the amount of cold work that was potentially used during initial fabrication and/or modification of the RVI components. The PWROG requested the NRC staff assess the report so that each plant can use this assessment as part of its response to A/LAI 1.

A list of attendees is enclosed. Technical report PWROG-15105-NP, Revision 0, can be found in the ADAMS at Accession No. ML16222A300.

Project No. 694

Enclosure:
As stated

CONTACT: Jonathan G. Rowley, NRR/DLP/PLPB
(301) 415-4053

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PRESSURIZER WATER REACTOR OWNERS GROUP
REGARDING COLD WORK ASSESSMENT RESULTS
DATED: OCTOBER 26, 2017

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ADAMS Accession Nos.: ML17292A106; Package: ML17292A109;
Notice: ML16242A087; Report: ML16222A300 NRC-001

OFFICE	PLPB/PM	PLPB/BC	PLPB/PM
NAME	JRowley	DMorey	JRowley
DATE	10/4/17	10/25/17	10/26/17

OFFICIAL RECORD COPY

List of Attendees

Meeting on PWROG Cold Work Assessment Results

September 7, 2016

Name	Organization
Mike Burke	Westinghouse Electric Company (Westinghouse)
Mike Ickes	Westinghouse
Heather Malikowski	Exelon
Kyle Amberge	Electric Power Research Institute
Steve Fyfitch	AREVA Inc.
Jonathan Rowley	U.S. Nuclear Regulatory Commission (NRC)
Pat Purtscher	NRC
Jack McHale	NRC
Ganesh Cheruvenki	NRC
Joel Jenkins	NRC
Jeff Poehler	NRC
James Medoff	NRC
Robert Tregoning	NRC
David Dijamco	NRC
Seung Min	NRC

Enclosure