

December 23, 2016

MEMORANDUM TO: Kevin Hsueh, Chief
Licensing Processes Branch
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

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

SUBJECT: SUMMARY OF MARCH 2, 2016, MEETING WITH THE
PRESSURIZED WATER REACTOR OWNERS GROUP REGARDING
TRANSITIONING REACTOR PRESSURE VESSEL INTEGRITY TO
DIRECT FRACTURE TOUGHNESS

On March 2, 2016, a meeting was held between the U.S. Nuclear Regulatory Commission staff and representatives from the Pressurized Water Reactor Owners Group (PWROG). The purpose of this meeting was for the PWROG representatives to present a plan for transitioning reactor pressure vessel (RPV) integrity evaluations from the current reference temperature nil ductility based approach to direct fracture toughness measurements.

The PWROG representatives indicated that establishing a robust fracture toughness basis based on actual fracture toughness measurement, for the current license period and for subsequent license renewal (SLR), will help ensure public safety by providing better understanding of the actual margin that exists in the RPVs. The goals of the program are to reduce uncertainty, improve consistency of margin, and characterize margin statistically. This will ensure optimum pressure-temperature curves for SLR and an overall cost savings for managing RPV integrity. The plan described in the presentation would result in a topical report being submitted to the NRC in approximately 6.5 years.

CONTACT: Jonathan G. Rowley, DPR/PLPB
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A list of attendees is enclosed. The publicly available presentations given by the PWROG representatives can be found in the Agencywide Documents Access and Management System (ADAMS) at Accession No. ML16208A412.

Project No. 694

Enclosure: List of Attendees

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Project No. 694

Enclosure: List of Attendees

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ADAMS Accession Nos.: Pkg.: ML16306A088; Summary: ML16306A091; Notice: ML16048A359; Presentation: ML16208A412; *concurred via e-mail **NRR-106**

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|--------|---------------------|----------------------|-----------------|---------------------|---------------------|
| NAME | JRowley | DHarrison | AHiser | KHsueh | JRowley |
| DATE | 11/23/16 | 11/22/16 | 12/07/16 | 12/21/16 | 12/23/16 |

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List of Attendees

Meeting with PWROG Regarding RPV Integrity to Direct Fracture Toughness

March 2, 2016

| Name | Organization |
|----------------------|--|
| Bill Server | ATI consulting |
| Matt Devan | AREVA Inc. (AREVA) |
| Charles Tomes | Dominion Power |
| Robert Carter | Electric Power Research Institute (EPRI) |
| Tim Hardin | EPRI |
| Nathan Palm | EPRI |
| Heather Malikowski | Exelon |
| Mark Kirk | U.S. Nuclear Regulatory Commission (NRC) |
| David Dijamco | NRC |
| Jonathan Rowley | NRC |
| Rob Tregoning | NRC |
| Robert Tregoning | NRC |
| Matthew Gordon | NRC |
| Patrick Purtscher | NRC |
| Jeff Poehler | NRC |
| Allen Hiser | NRC |
| Carolyn Fairbanks | NRC |
| Jack McHale | NRC |
| Dan Widrevitz | NRC |
| Robert Hardies | NRC |
| Dave Ruland | NRC |
| Simon Sheng | NRC |
| Steven Downey | NRC |
| Randy Nanstad | Oak Ridge National Laboratory |
| James Molkenthin | Pressurized Water Reactor Owners Group |
| Marjorie Erickson | PEAI Consulting |
| Christopher Koehler* | Xcel Energy |
| Frank Gift | Westinghouse Electric Company (Westinghouse) |
| Brian Hall | Westinghouse |
| Elliot Long | Westinghouse |
| John Moorehead | Westinghouse |

*Via telephone conferencing

Enclosure