November 16, 2010

MEMORANDUM TO: Timothy R. Lupold, Chief
Piping and NDE Branch
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

FROM: John C. Tsao ***/RA/***
Piping and NDE Branch
Division of Component Integrity
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF PUBLIC MEETING ON OCTOBER 28, 2010, WITH NUCLEAR INDUSTRY REGARDING REGULATIONS AND METHODOLOGY FOR OVERLAID ALLOY 82/182 WELDS IN LEAK-BEFORE-BREAK PIPING

On October 28, 2010, NRC staff met with pressurized water reactor (PWR) industry representatives to discuss Leak-Before-Break (LBB) application and the Regulatory Issue Summary, "Regulatory requirements for Application of Weld Overlays and Other Mitigation Techniques in Piping Systems Approved for Leak-Before-Break," RIS 2010-07.

The Nuclear Regulatory Commission (NRC) staff presented the regulatory process to address updating the original NRC-approved LBB analyses after weld overlays are installed on Alloy 82/182 dissimilar metal welds. The NRC staff also discussed the 10 CFR 50.59 evaluation regarding the submission of license amendment requests for the updated LBB analyses. The NRC staff identified one method for the evaluation of LBB of a weld overlay and provided the Agencywide Documents and Access Management System (ADAMS) accession number in its presentation slides. The NRC emphasized that this was a method that had been reviewed and approved, but licensees are not required to use, as other approaches may also be acceptable. Three industry vendors presented their methodology of updating the original LBB analyses, considering the overlaid Alloy 82/182 welds. The industry also presented their view on the 10 CFR 50.59 requirements with respect to license amendment request for the updated LBB analyses. A generic approach such as a topical report was discussed to address how to update the LBB analyses and issues related to license amendment requests. The industry may forward the NRC a roadmap for a topical report submittal in the near future. The NRC requested that any such submittal include a detailed approach and timeline for completion of the topical report and submission to the NRC.

Enclosure 1 contains a list of meeting attendees. Enclosure 2 contains the ADAMS Accession numbers and titles of the four sets of presentation slides.

Enclosures: 1. List of Attendees
2. References for Presentation Slides

CONTACT: John Tsao, NRR/DCI/CPNB
301-415-2702

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Memo to Timothy R. Lupold from John C. Tsao dated November 16, 2010

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October 28, 2010

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PRESENTED SLIDES

Public Meeting on Regulations and Methodology for
Overlaid Alloy 82/182 Welds in Leak-Before-Break Piping
October 28, 2010

The following presentation slides can be found in the NRC's Agencywide Documents and Access Management System (ADAMS) with associated accession numbers.

1. John Tsao, "Regulations and Methodology for Leak-Before-Break Piping With Overlaid Alloy 82/182 Dissimilar Metal Welds," Nuclear Regulatory Commission (ADAMS Accession No. ML102990273).

2. Angah Meissi and Pete Riccardella, "Leak-Before-Break Evaluation of Overlaid Alloy 82/182 Welds," Structural Integrity Associates, Inc (ADAMS Accession No. ML103140357).

3. Dulal Bhowmick and Joseph Cole, "Leak-Before-Break Evaluation of Overlaid Alloy 82/182 Welds," Westinghouse Electric Company (ADAMS Accession No. ML103130257).

4. Ashok Nana, "LBB Methodology for Weld Overlay of Alloy 82/182 DMW per RIS 2010-07," AREVA NP Inc (ADAMS Accession No. ML103140366).