



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

August 22, 2016

Dr. Mark Richter
Nuclear Energy Institute
1201 F St., NW, Suite 1100,
Washington, DC 20004-1218

Subject: U.S. NUCLEAR REGULATORY COMMISSION ASSESSMENT OF CLOSURE OF REGULATORY ISSUE RESOLUTION PROTOCOL N-10-01, DRY SPENT FUEL STORAGE CANISTER CHLORIDE INDUCED STRESS CORROSION CRACKING

Dear Dr. Richter:

The U.S. Nuclear Regulatory Commission (NRC) staff reviewed the Regulatory Issue Resolution Protocol (RIRP) N-10-01, Dry Spent Fuel Storage Canister Chloride Induced Stress Corrosion Cracking issue resolution plan and the actions identified to resolve the RIRP. Implementation of the resolution plan by industry and the NRC resulted in the successful completion of the action items described in the plan. According to the resolution plan, the issuance of Electric Power Research Institute (EPRI) report 3002005371: "Susceptibility Assessment Criteria for Chloride-Induced Stress Corrosion Cracking (CISCC) of Welded Stainless Steel Canisters for Dry Cask Storage Systems" (EPRI, Palo Alto, CA: 2015), NRC comments to the EPRI report, and the actions by industry to address the NRC comments are identified as the last steps that must be completed prior to the closure of RIRP N-10-01. The NRC staff comments and the EPRI responses to the NRC comments were presented and discussed at a public meeting on April 28, 2016. These last steps were completed and therefore, NRC agrees RIRP N-10-01 can be closed. The summary of that meeting was prepared and made publicly available in the NRC Agencywide Documents Access and Management System (ADAMS) accession number ML16154A256.

Consistent with the RIRP process described in Appendix E of Nuclear Energy Institute (NEI) 10-03 (NRC ADAMS ML111010247), the NRC staff prepared an independent closure summary and a statement on the measurement of success. The NRC staff did not identify any tracking items necessary for RIRP N-10-01. The NRC staff input to the RIRP N-10-01 is included in the enclosure.

The NRC recognizes and appreciates the significant technical progress made which provided better understanding of the potential for CISCC of welded stainless steel canisters. This progress was achieved as a result of collaboration between NRC, NEI and industry to address and close RIRP N-10-01. The NRC staff will continue to provide input to the ongoing industry and EPRI efforts in this area. Thank you for considering and incorporating NRC's perspective as independent regulator in to RIRP N-10-01.

Sincerely,

/RA/

Mark Lombard, Director
Division of Spent Fuel Management
Office of Nuclear Material Safety
and Safeguards

Enclosure: As stated

The NRC recognizes and appreciates the significant technical progress made which provided better understanding of the potential for CISCC of welded stainless steel canisters. This progress was achieved as a result of collaboration between NRC, NEI and industry to address and close RIRP N-10-01. The NRC staff will continue to provide input to the ongoing industry and EPRI efforts in this area. Thank you for considering and incorporating NRC's perspective as independent regulator in to RIRP N-10-01.

Sincerely,

/RA/

Mark Lombard, Director
Division of Spent Fuel Management
Office of Nuclear Material Safety
and Safeguards

Enclosure: As stated

ADAMS Package No: **ML16208A196** Letter: **ML16208A202** Enclosure: **ML16208A220**

OFC	DSFM/RMB/TR	DSFM/SFLB/LA	DSFM/RMB/BC	DSFM	DSFM
NAME	DDunn	WWheatley	ACsontos	AHsia	MLombard
DATE	7/26/16	8/2/16	7/26/16	8/17/16	8/22/16

OFFICIAL RECORD COPY