

May 3, 2013

MEMORANDUM TO: Anthony Hsia, Deputy Director  
Division of Spent Fuel Storage and Transportation  
Office of Nuclear Material Safety  
and Safeguards

FROM: Steve Ruffin, Project Manager /RA/  
Licensing Branch  
Division of Spent Fuel Storage and Transportation  
Office of Nuclear Material Safety  
and Safeguards

SUBJECT: SUMMARY OF APRIL 4, 2013, PUBLIC MEETING WITH THE  
NUCLEAR ENERGY INSTITUTE AND INDUSTRY TO DISCUSS  
CHLORIDE-INDUCED STRESS CORROSION CRACKING

#### Background

The U.S. Nuclear Regulatory Commission (NRC) staff held a public meeting with the Nuclear Energy Institute (NEI) and industry on December 18, 2012, to discuss the chloride-induced stress corrosion cracking (CISCC) issue, including the Regulatory Issue Resolution Protocol's Resolution Plan (RIRP), and the R&D Roadmap. The Electric Power Research Institute's (EPRI) presentation on CISCC addressed EPRI projects related to CISCC, elements of the R&D Roadmap, overview for the Aging Management Plan, and Calvert Cliffs voluntary canister inspection results. As a follow up to the December 18 meeting, EPRI was to provide the updated R&D Roadmap to NRC staff and more details on the timeline for the Aging Management Plan in a follow up meeting which was scheduled for April 4, 2013.

#### Summary of Meeting

On April 4, 2013, NRC staff met with NEI, EPRI, and industry participants. EPRI's presentation provided an overview of industry's plan for addressing the potential for CISCC of stainless steel dry storage canisters, and associated industry activities. EPRI provided some background information on what is known and what the conditions of canisters are, discussed the elements of the R&D Roadmap which include: its failure mode and effects analysis, literature survey, voluntary inspections, degradation models, and susceptibility assessment criteria. As discussed in the meeting handouts, the next steps for EPRI include key publication dates and proposed meeting dates and topics that address failure modes and effects analyses reports, degradation models, and industry-wide susceptibility criteria. EPRI proposes to have public meetings around key actions and publications. NEI presented its proposed update to the RIRP and requested written comments from the staff.

No regulatory decisions were requested nor made at the meeting. Enclosure 1 contains the list of meeting attendees, Enclosure 2 contains the meeting agenda, and Enclosure 3 contains the presentations given by NRC and NEI as meeting handouts.

TAC No.: LA0119

Enclosures:

1. Meeting Attendees
2. Agenda
3. Handouts
  - Integrated Plan for Addressing Potential Chloride-Induced Stress Corrosion Cracking of Austenitic Stainless Steel Dry Cask Storage System Canisters (EPRI)
  - Used Fuel Storage and Transportation Issue Resolution Plan, Issue N-10-01, Revision 2 (NEI)

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Distribution: NRC Attendees

Electronic Distribution: NMSS/SFST

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<b>DATE</b>	5/3/2013		5/ 3 /2013		5/ 3 /2013	

C=Without attachment/enclosure E=With attachment/enclosure N=No copy **OFFICIAL RECORD COPY**

MEETING ATTENDEES  
Meeting Between the Nuclear Regulatory Commission, NEI, EPRI and Industry

April 4, 2013

Steve Ruffin	NRC/SFST
Michele Sampson	NRC/SFST
Jason Piotter	NRC/SFST
David Tang	NRC/SFST
Sara Depaula	NRC/SFST
David Tarantino	NRC/SFST
Tae Ahn	NRC/SFAS
James Rubenstone	NRC/SFAS
Greg Oberson	NRC/RES
Al Csontos	NRC/RES
Darrell Dunn	NRC/RES
Bruce Lin	NRC/RES
Felix Gonzalez	NRC/RES
Adam Gendelman	NRC/OGC
Carlyn Greene	Ux Consulting
Yiming Ping	Southwest Research Institute
Rod McCullum	NEI
John Kessler	EPRI
Keith Waldrop	EPRI
Shannon Chu	EPRI
Christine King	EPRI
John Broussard	Dominion Engineering Inc.
Glen White	Dominion Engineering Inc.
Paul Plante	3 Yankees
John Massari	CENG
Ray Termini	Exelon
Laszlo Zsidai	Holtec
Tom Danner	NAC International
Andy Jung	TN-Areva
Glenn Schwartz	PSEG Nuclear Fuels
Zita Martin	TVA
Randy Robins	Dominion
Norman Eng	Structural Integrity Associates, Inc.
B Gordon	Structural Integrity Associates, Inc.

## **Agenda**

### **Public Meeting with Nuclear Energy Institute on Chloride-Induced Stress Corrosion Cracking (CISCC) of Stainless Steel Dry Storage Canisters and Proposed Update to the Regulatory Issue Resolution Protocol's Resolution Plan (RIRP)**

April 4, 2013

1:30 PM - 5:00 PM

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|--------------|---|
| 1:30-1:45 PM | Call to Order, Introductions and Introductory Remarks   |
| 1:45-4:30 PM | Discuss EPRI presentation on integrated plan for addressing CISCC, R&D Roadmap, and NEI RIRP update |
| 4:30-4:45 PM | Discuss Next Milestones and Anticipated Dates   |
| 4:45-5:00 PM | Open Discussion/Public Comments and Wrap-up   |

## PRESENTATION HANDOUTS