



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

December 24, 2014

MEMORANDUM TO: Steven D. Bloom, Chief
Subsequent Renewal, Guidance,
and Operations Branch
Division of License Renewal
Office of Nuclear Reactor Regulation

FROM: Evelyn H. Gettys, Project Manager */RA/*
Subsequent Renewal, Guidance,
and Operations Branch
Division of License Renewal
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF THE MEETING BETWEEN THE U.S. NUCLEAR
REGULATORY COMMISSION STAFF AND THE NUCLEAR
ENERGY INSTITUTE TO DISCUSS CURRENT LICENSE
RENEWAL TOPICS

The U.S. Nuclear Regulatory Commission (NRC) staff and representatives of the Nuclear Energy Institute (NEI) met on December 4, 2014, to discuss various topics on license renewal. The agenda and slide presentations are available in the NRC's Agencywide Documents Access and Management System (ADAMS) under Accession No. ML14338A384. The enclosure is a list of the meeting participants.

A summary of the meetings discussion follows:

1. NRC's Cable Aging Research Activities

The staff gave a presentation to inform the public and industry of the NRC's efforts to provide the licenses with better condition monitoring tools for the assessment of cable health. The goal of the project called "Evaluation of Degradation in a Submerged Environment" is to develop a predictive model for the licensees to better evaluate remaining useful life in their cables. For the project call "Assessment of Condition Monitoring Techniques for Electrical Cables," the goal is to determine the most suitable condition monitoring technique for a specific type of cable insulation, and develop reproducible and consistent ways of performing the condition monitoring tests so the results of the tests do not significantly diverge from user to user or from site to site.

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The conclusion from these projects will serve to update Regulatory Guides (RG) 1.89 "Environmental Qualifications of Certain Electric Equipment Important to Safety for Nuclear Power Plants" and RG 1.218 "Condition Monitoring Techniques for Electric Cables Used in Nuclear Power Plants."

2. Interim Staff Guidance (ISG)-2013-01, Aging Management of Loss of Coating or Lining Integrity for Internal Coatings/Linings on In-Scope Piping, Piping Components, Heat Exchangers, and Tanks.

The staff gave an overview of the program elements for the newly issued Generic Aging Lessons Learned (GALL) Report XI.M42, "Internal Coatings/Linings for In-Scope Piping, Piping Components, Heat Exchangers, and Tanks." The ISG-2013-01 was published on November 14, 2014.

3. Selective Leaching Aging Management Program Update

The staff gave an overview of the program changes that are being considered for the management of selective leaching. These changes would affect the program elements for "scope of program," "detection of aging effects," "acceptance criteria," and "corrective actions."

4. Flow-Accelerated Corrosion Program Update

The staff gave an overview of the changes for the GALL Report Aging Management Program (AMP) XI.M17, Flow-Accelerated Corrosion Program. The staff is considering a change to the "detection of aging effects" program element to re-assess any systems that have previously been excluded from the program due to low usage. While industry guidance states that these systems can be safely excluded from further evaluation, the guidance does not address the cumulative effect of limited operating time after 60 years of operation. The re-assessment will confirm that these systems are not experiencing wall thinning based on field measurements.

5. Open-Cycle Cooling Water System Program Update

The staff gave an overview of the changes for the GALL Report AMP XI.M20, Open-Cycle Cooling Water System. The staff is considering a change to the "parameters monitored or inspected" program element to verify design parameters for those portions of the system that are not verified through flow testing. Fouling on wetted surfaces can significantly reduce inside diameters and increase roughness factors in system piping. Verification of these parameters, using information from existing flow tests, is necessary to ensure that system flow requirements can be met for any portions of the system that are not tested.

6. Use of the Expanded Materials Degradation Assessment for Updating the GALL Report

The staff gave an overview of the Expanded Materials Degradation Assessment (EMDA) including some of the history as well as the expert panels' ranking of the aging-related degradation modes for core internals and piping, concrete and containment systems, civil structures, reactor pressure vessel and electrical cables. The staff explained how the EMDA results are being used by the Subsequent License Renewal (SLR) Expert Panels to revise the GALL Report and the Standard Review Plan (SRP) for 60-80 years of operation.

7. Schedule for the GALL Report and Standard Review Plan Revision

The staff discussed the projected dates for the GALL-SLR and the SRP-SLR, which are December 2015 for the draft and June 2017 for the final publication of the guidance documents.

8. Industry feedback on the Nov. 19th meeting on electrical AMP

The industry presented their comments to the staff's proposed changes to the GALL Report AMPs for electrical systems and components, for SLR. This conversation will be continued in future meetings.

9. Site Visit and R&D Meeting Planning

The industry presented their proposal of three types of visits that they would be willing to host for the staff to gain a better understanding of how the industry conducts certain activities.

10. New Topics

No new topics were identified.

11. Action Items

- a. NRC and NEI to continue their discussion on the proposed changes to GALL-SLR AMP XI.M33, Selective Leaching. Public meeting to be determined.
- b. NRC and NEI are to continue their discussion on the proposed changes to GALL-SLR electrical AMPs. Public meeting to be determined.
- c. NRC and NEI will discuss the dates for possible visits by NRC staff to industry sites
- d. NRC to have future public meeting on GALL-SLR civil/structural AMPs.

12. Public Participation

No one from the public participated.

Enclosure:
Attendance List

cc w/encl: Reactor License Renewal Stakeholder Group Listserv

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CURRENT LICENSE RENEWAL TOPICS

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**Meeting between the U.S. Nuclear Regulatory Commission Staff and the
Nuclear Energy Institute to Discuss License Renewal Topics
December 4, 2014**

Attendance List

<u>NAME</u>	<u>AFFILIATION</u>
Chris Miller	The Nuclear Regulatory Commission (NRC)
Jane Marshall	NRC
Michael Marshall	NRC
Evelyn Gettys	NRC
Steve Bloom	NRC
Butch Burton	NRC
Allen Hiser	NRC
Bennett Brady	NRC
Jim Medoff	NRC
David Wrona	NRC
Brian Wittick	NRC
Darrell Murdock	NRC/RES
John Daily	NRC
Angela Buford	NRC
Richard Tilley	EPRI
Jason Remer	Nuclear Energy Institute (NEI)
John O'Rourke	RSEG Nuclear
Mike Franklin	Duke Energy
Eric Blocher	STARS
David Clohecy	Exelon
Alan Cox	Entergy
David Gerber	Structural Integrity
Richard Reister	DOE

ENCLOSURE

Fred Polaski	Polaski Consulting
Edward J Casley	Nextera Energy
Massoud Tafazzoli	AREVA
Randal Boyd	Arizona Public Service
Michelle Olsofsky	Pacific Gas & Electric Co.
Heather Jones	NRC
Gary Peters	Areva
Tina Taylor	EPRI
Roger Wink	Ameren
Lori Hekking	Duke Energy
Mike Fallin	Exelon
Bob Kalinowsy	AEP
Bill Roger	NRC
Bernard Litkett	NRC
Tony Harris	STARS Alliance
Chris Earls	NEI
Cecil Fletcher	Duke Energy
Paul Artken	Dominion
Sherry Bernhoff	EPRI
Gary Peters	NEI
Miriam Juckett	CNWRA
Brian Jelke	S & L
Tim Thomas	ENERCON
Jon Hornbuckle	SNC
Ed Corley	Nextera Energy
Albert Piha	Exelon
Cliff Coster	FENOC

John Twomey

Energy Northwest

Jana Bergman

CW/Scientech

John Hildtich

Exelon

Lynne Goodman

DTE Energy

Bob Kalinowski

AEP

Michael Semmler

Westinghouse

Barbara Snyder

Westinghouse

Paul Aiken

Dominion