

July 23, 2012

MEMORANDUM TO: Yaira K. Diaz-Sanabria, 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 June 28, 2012, to discuss current license renewal topics. The agenda and slide presentations are available in the NRC's Agencywide Documents Access and Management System (ADAMS) under Accession No. ML12188A145. Enclosed is a list of the meeting participants.

A summary of the meeting's discussions follows.

1. Division of License Renewal opening comments

The NRC staff provided an update on the recent court decision to vacate NRC's Waste Confidence Rule and its implications on the agency's current and future licensing work. The staff outlined some possible options that the Commission may have on how to proceed as a result of the court's decision.

The staff discussed the importance of operating experience to maintain effective aging management programs (AMPs) before receiving a renewed license. The staff referred to the example of the recent leakage onto safety related equipment in the control room as the result of repair work on the safety injection water refueling tank. The staff would like to have more dialogue with the industry on the effectiveness of the AMPs in terms of lessons learned.

The staff expressed its concerns that the time frame for products delivered from the Department of Energy (DOE) and the Electric Power Research Institute (EPRI) does not provide the staff enough headway to put into place the necessary framework to develop guidance and processes to support subsequent license renewals (SLRs). The NRC requested the industry to take a proactive role in providing the staff with schedules and milestones.

## 2. Observations on Recent Audits

The staff highlighted the importance of preparation and coordination for a successful audit, and the significance of audits on the review process. The staff presented its views on the elements for an effective audit: pre-arrival coordination, conduct of audit, and post audit activities, and the NRC's need to use limited resources wisely.

## 3. Aging Management Program Technical Assessment for Subsequent License Renewal

EPRI presented its vision of a collaborative industry effort to develop a technical basis and communication document to capture the technical bases and needs for the current AMPs in order to support SLR. This program will be built upon the existing EPRI Expanded Materials Degradation Assessment (EMDA) program with plant staff's input, research results, and operating experience incorporated into the final product. During the presentation, NRC staff raised questions on the scope of the project, its schedule and how it is related to other industry initiatives such as the Fukushima response equipment list. EPRI staff responded that the program was still at an early stage with more details to be finalized in the future. Due to the heightened interest on this topic, NEI suggested additional dialogues with NRC on this topic.

## 4. Status of the Interim Staff Guidance for Reactor Vessel Internals

The staff discussed the public comments on the draft license renewal interim staff guidance (LR-ISG), LR-ISG-2011-04 "Updated Aging Management Criteria for PWR Reactor Vessel Internal Components." The comments and responses will be addressed in the final LR-ISG which is expected to be issued in the fall.

## 5. Buried and Underground Piping and Tanks ISG Response Public comment

The staff presented a brief summary of the response to public comments for the ISG on Buried and Underground Piping and Tanks. The comments and responses will be issued in the final LR-ISG which is expected to be issued in the fall.

## 6. ISG on Wall Thinning Due To Erosion Mechanisms

The staff presented information related to LR-ISG-2012-01, Wall Thinning Due to Erosion Mechanisms. The staff discussed previous industry operating experience where erosion mechanisms caused problems, which resulted in licensee event reports due to inoperable systems. The staff also discussed its reviews of recent license renewal applications, which found erosion mechanisms either mentioned in license renewal applications or identified by the staff during operating experience reviews. The presentation provided an overview of the draft LR-ISG, which will revise the Generic Aging Lessons Learned (GALL) Report and the Standard Review Plan for Review of License Renewal Applications for Nuclear Power Plants (SRP-LR) by modifying the definitions for "wall thinning," "erosion," and "flow-accelerated corrosion"; adding aging management review items to address erosion mechanisms in piping; and changing the GALL Report Aging Management Program XI.M17, "Flow-Accelerated Corrosion," to allow it to manage erosion mechanisms using the existing "susceptible-not-modeled"

approach. Follow-up discussions with the industry clarified that this LR-ISG pertains to piping components and not to structural components, which currently address erosion.

7. ISG Related to Internal Surfaces Aging Effects Requiring Management

The staff presented a summary of the scope of an upcoming ISG which will invoke changes to the GALL Report as it relates to the internal surfaces and aging effects requiring management. The topics discussed included: pervasive internal corrosion operating experience and expected GALL Report changes, sampling quantities for AMP XI.M38, "Inspection of Internal Surfaces in Miscellaneous Piping and Ducting Components", fouling and flow blockage, fire sprinkler flow blockage due to corrosion products, and miscellaneous changes.

8. NRC and the International Atomic Energy Agency and the International Generic Aging Lessons Learned

This topic will be discussed in the next public meeting.

9. New Topics

No new topics were discussed.

10. Public Participation

No members of the public provided comments at the meeting.

Enclosure:  
As stated

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**Meeting between the U.S. Nuclear Regulatory Commission Staff and the  
Nuclear Energy Institute to Discuss Current Renewal Topics**

**June 28, 2012**

**Attendance List**

Name	Affiliation
John Wise	NRC/NRR/DLR
William Holston	NRC/NRR/DLR
Rajender Auluck	NRC/NRR/DLR
Michelle Kichline	NRC/NRR/DLR
Bart Fu	NRC/NRR/DLR
Melanie Galloway	NRC/NRR/DLR
Jim Medoff	NRC/NRR/DLR
David Wrona	NRC/NRR/DLR
Bill Rogers	NRC/NRR/DLR
Allen Hiser	NRC/NRR/DLR
Brian Holian	NRC/NRR/DLR
Evelyn Gettys	NRC/NRR/DLR
Albert Wong	NRC/NRR/DLR
John Daily	NRC/NRR/DLR
Jim Gavula	NRC/NRR/DLR
Yoira Diaz	NRC/NRR/DLR
Rahmeek Perry	NRC – summer intern
Amara Kutos	NRC – summer intern
Sandra Lindo-Talin	NRC/RES
Makuteswara Srinivasan	NRC/RES
Lynne Godman	Detroit Edison
Michael Semmler	Westinghouse
Massoud Tafazzoli	AREVA

ENCLOSURE

Name	Affiliation
Angela Krainik	Arizona Public Service
Tony Harris	Arizona Public Service
Michael Fallin	CENG
Garry Young	Entergy
Ted Ivey	Entergy
Alan Cox	Entergy
Richard Tilley	EPRI
Al Fulvio	Exelon
Deb Spamer	Exelon
Shannon Rafferty-Czincila	Exelon
Cliff Custer	FENOC
Rick Cliché	NextEra Energy - Seabrook
Jason Remer	Nuclear Energy Institute
Fred Polaski	Polaski Consulting, LLC
Mike Heath	Progress Energy
Todd Mintz	Southwest Research
Loyd Wright	SCE
Sandra Birk	Idaho National Lab
John Twomey	Energy Northwest
Eric Blocher	STARS
Jana Bergman	Sciencetech
David Gerber	Structural Integrity Association
Sherry Bernhoff	EPRI
Ken Brune	TVA