



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

**March 15, 2013**



# Action Items

Meeting Date & item #	Action Item	Action Needed	Assigned to	Expected completion Date	Completion Date	Additional Action Identified
12/13/12 #1	NRC: Public meeting draft ISG on Internal Surfaces Aging Effects Corrosion Under Insulation.	Public meeting	NRC	Meeting to be arranged the five or six week after ISG is issued		
12/13/12 #2	The individual plants need to evaluate the location of commitments for license renewal and whether the actions in the commitments are to be managed using 10 CFR 50.59 or 10 CFR 50.90.		NEI	March 15. 2013		
12/13/12 #3	To provide information concerning how and why Technical Review Groups are formed at the NRC.	Presentation for March 15 meeting	NRC Bo Pham			



# Action Items

Meeting Date & item #	Action Item	Action Needed	Assigned to	Expected completion Date	Completion Date	Additional Action Identified
12/13/12 #4	Discuss with industry how to define and facilitate information sharing in light of degradation and aging management. Following up with OpE databases and programs with common/stand ard keywords so that searching is not trial-and-error.	Bo provided feedback to NEI on 1/30/13 phone call.”	NRC Bo Pham	On-going.		Need NEI and industry to propose meetings outside of the NEI quarterly venue to discuss how to evaluate effectiveness of AMPs.



# Action Items

Meeting Date & item #	Action Item	Action Needed	Assigned to	Expected completion Date	Completion Date	Additional Action Identified
12/13/12 #5	Will follow up with NEI before next quarterly meeting on the type of OpE information NRC would like the industry to present. Information should be provided by end of January.	Bo provided feedback to NEI on 1/30/13 phone call	NRC/ Bo Pham		Jan. 30, 2013	
12/13/12 #6	Provide insight on the applicability of 10 CFR Part 50, Appendix B, quality assurance requirements to aging management of SSCs within the scope of license renewal.	Bo will provide feedback at March 15 meeting.	Bo Pham	March 15, 2013		



# Containment Leakage Rate Testing

Andrew Prinaris

DLR/RASB



# Containment Leakage Rate Testing (CLRT) LRA AMP Issues

- Focus of discussion:
  - **Exempted, excluded, or relieved from Leak Rate Testing containment boundary pressure retaining components per 10 CFR Part 54.21(a) need to be age managed during the PEO.**
- There are differences between the 10 CFR Part 50, Appendix J Rule Program and the GALL Report XI.S4, “10 CFR Part 50, Appendix J,” Age Management Program.
- The GALL Report XI.S4, AMP credits the role of the 10 CFR Part 50, Appendix J Rule Program consistent with SECY-99-148, “Credit for Existing Programs for License Renewal.”
- Going Forward:
  - **How does the LRA Containment Leak Rate Testing AMP need to be structured to deal with the exempted, excluded, relieved from testing containment boundary pressure retaining components.**



# 10 CFR Part 50, Appendix J Regulation and Part 54 based AMP

## What's Common ?

Integrity of the containment pressure retaining boundary is maintained.

## What's the Difference ?

### Appendix J Program vs. CLRT AMP

- Is a Part 50 Appendix.
- Establishes testing and surveillance requirements for the containment and systems and components penetrating the containment.
- Assures that testing leakage rates specified in the plant technical specifications or associated bases for the containment and **specific components** (listed explicitly in the Appendix) penetrating the containment are not exceeded.

- XI.S4 is a 10 CFR Part 54 Topical Report.
- Recommends how to age manage the entire containment pressure retaining boundary against leakage.
- Includes the containment and **ALL** of the containment isolation valves and penetrations.
- Allows acceptable Inservice Programs to be used (e.g., ASME Section XI, Subsections IWE – see AMP XI.S1 and IWL – see AMP XI.S2 for inspections, and ASME Section XI Inservice Test Program for leakage testing of the containment isolation valves).



# Containment Leak Tight Integrity AMP

- What needs to be included in the LRA CLRT AMP?
  - Age management of **ALL** of the containment boundary pressure retaining SCs.
  - **Identify the other AMPs or AMR line items that include the exempted, relieved, or excluded components that indicate the effects of aging will be managed during the period of extended operation.**
- **Exempted, relieved, or excluded** from leak rate testing pressure boundary components still **need to** be age managed. If the Part 50 Appendix J program includes these components, then the Appendix J AMP should be identified as:
  - Consistent with the GALL Report XI.S4 with exceptions, or
  - Consistent with the GALL Report XI.S4 with enhancements, or
  - Consistent with the GALL Report XI.S4 with exceptions and enhancements, or
  - Plant-specific per SRP-LR Appendix A1 guidance.





**U.S. NRC**

UNITED STATES NUCLEAR REGULATORY COMMISSION

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# **Issuance of Revised Inspection Procedure 71003, “Post-Approval Site Inspections for License Renewal”**

**Heather Jones – DLR/RSRG**

**March 15, 2013**



## Summary of Changes to IP 71003

- **Inspection Objectives**
  - Clarifies verification of changes to license renewal activities
- **Inspection Schedule**
  - Clarifies timing and inspection scope of Phases I, II and III
- **Level of Effort**
  - Includes recommended sample size and extent of review of license conditions, commitments, AMPs and TLAAs for license renewal
- **Sample Selection**
  - Includes specific inspection guidance for the review of license conditions, commitments, AMPs and TLAAs
- **Resource Estimates**
  - Converted from weeks to hours



## Key Messages

- The inspection scope has not changed
- The procedure has been enhanced to provide clear guidance and improve the consistency of the inspection across the four Regions
- Updated procedure issued February 2013
- ML12258A160



# **NRC Regulatory Issue Summary 2013-XX: Importance of Operating Experience Evaluations to Effective Aging Management**

**Matthew Homiack**

**DLR/RARB**



# Status of ISGs/RIS

- Wall Thinning due to Erosion Mechanism
  - Final LR-ISG-2012-01, 1<sup>st</sup> quarter 2013
- Updated Aging Management Criteria for Reactor Vessel Internal Components of Pressurized Water Reactors
  - Final LR-ISG-2011-04, 2<sup>nd</sup> quarter of 2013



## **Status of ISGs/RIS – cont.**

- **Changes to the Generic Aging Lessons Learned (GALL) Report Revision 2 Related to Internal Surfaces and Corrosion Under Insulation (CUI) Aging Effects Requiring Management**
  - Draft LR-ISG-2012-02 , 2<sup>nd</sup> quarter of 2013
- **RIS: Importance of Operating Experience Evaluations to Effective Aging Management**
  - Draft , 3rd quarter of 2013