

IPRenewal NPEmails

From: Louie, Richard <rlouie@entergy.com>
Sent: Wednesday, October 12, 2016 6:31 AM
To: Wentzel, Michael
Subject: [External_Sender] RE: Draft Meeting Summary for the October 4, 2014, Category 1 Public Meeting
Attachments: Summary of the October 4 2016 Public Meeting with Entergy Regarding the Indian Point License Renewal Application_RL.docx

Mike,

Attached please find, comments we have on the draft meeting summary.

Additionally, we would like to request a due date extension for the responses for RAI SET 2016-01 to December 1, 2016.

Let me know if you have any questions.

Thanks,

Rich

From: Wentzel, Michael [<mailto:Michael.Wentzel@nrc.gov>]
Sent: Thursday, October 06, 2016 1:49 PM
To: Louie, Richard
Subject: Draft Meeting Summary for the October 4, 2014, Category 1 Public Meeting

Rich,

Attached is a draft meeting summary for our October 4, 2016, meeting. Please let me know if you have any comments on the summary.

Thanks,
Mike

Michael Wentzel
Project Manager
NRR/DLR/RERP
(301) 415-6459
michael.wentzel@nrc.gov

Hearing Identifier: IndianPointUnits2and3NonPublic_EX
Email Number: 8039

Mail Envelope Properties (CB159DC717B797428E92782CE3B5F40B2DDFEC53)

Subject: [External_Sender] RE: Draft Meeting Summary for the October 4, 2014, Category
1 Public Meeting
Sent Date: 10/12/2016 6:30:30 AM
Received Date: 10/12/2016 6:30:47 AM
From: Louie, Richard

Created By: rlouie@entergy.com

Recipients:
"Wentzel, Michael" <Michael.Wentzel@nrc.gov>
Tracking Status: None

Post Office: JDCXMETSP002.etrsouth.corp.entergy.com

Files	Size	Date & Time
MESSAGE	795	10/12/2016 6:30:47 AM
Summary of the October 4 2016 Public Meeting with Entergy Regarding the Indian Point License Renewal Application_RL.docx	33393	

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

U.S. Nuclear Regulatory Commission Public Meeting Summary

Title: Public Meeting with Entergy Nuclear Operations, Inc. (Entergy) Regarding ~~Proposed~~ Changes to the Service Water Integrity Program for the Indian Point Nuclear Generating Unit Nos. 2 and 3 (IP2 and IP3) License Renewal Application (LRA)

Meeting Identifier: 20161263

Date of Meeting: Tuesday, October 4, 2016

Location: NRC One White Flint North, O-9B4
11555 Rockville Pike
Rockville, MD

Type of Meeting: Category 1

Purpose of the Meeting(s):

The purpose of the meeting was for Entergy to describe ~~proposed~~ changes to the Indian Point Energy Center (IP2 and IP3) IPEC Service Water Integrity Program. The ~~proposed~~ changes are in response to the U.S. Nuclear Regulatory Commission (NRC) staff's July 25, 2016, request for additional information regarding its review of the IP2 and IP3 LRA.

General Details:

The NRC held a meeting on October 4, 2016, from 9:00 a.m. – 10:00 a.m. EDT. The meeting began with an introduction, an overview of meeting logistics, and an introduction of attendees. Entergy then presented an overview of its ~~proposed~~ changes to the IP2 and IP3 IPEC Service Water Integrity Program to address the NRC staff's request for additional information. Following the presentation, the meeting was opened for discussion between the NRC and Entergy staff.

Approximately 23 people participated in the meeting. Meeting participants included representatives from the NRC and Entergy, as well as five unidentified members of the public or interested stakeholders that participated via telephone.

Summary of Presentation:

Entergy presented an overview of its ~~proposed~~ enhancements to the IP2 and IP3 IPEC Service Water Integrity Program to address the NRC staff's July 25, 2016, request for additional information. A summary of the ~~proposed~~ enhancements and discussion during the meeting is outlined below.

RAI 3.0.3-10 Request 1

Entergy stated that it ~~proposed~~ to enhance the Service Water Integrity Program to establish goals for the minimum number of inspections that would be performed to address occurrences of service water piping degradation (either through-wall leakage, or greater than 50 percent reduction in wall thickness) resulting from recurring internal

corrosion (RIC). For five or fewer instances of ~~the aging effect with the same aging mechanism (either through wall leakage, or greater than 50 percent reduction in wall thickness)~~ such degradation in safety-related piping, Entergy would perform 10 augmented inspections. For greater than five instances, a minimum of 15 augmented inspections will be performed. ~~In nonsafety-related piping, five additional inspections would be performed if a through-wall leak occurs.~~ In addition, Entergy ~~proposlanned~~ to enhance the Service Water Integrity Program to perform a robotic inspection of ~~in-scope underground and accessible above-ground~~ service water piping during the second 10-year license renewal period ~~(i.e. continuation of the first 10-year license renewal period).~~

Regarding the additional inspections, the NRC staff asked Entergy what the acceptance criteria would be. Entergy stated that the degradation would be evaluated by performing a calculation to determine the remaining useful life for the piping relative to structural integrity. The staff stated that acceptance criteria for structural integrity does not address future leaks, as discussed during the staff's February audit regarding a fire water system leak.

Regarding robotic inspections, the NRC staff asked Entergy whether robotic inspections were performed as part of the current program. Entergy stated that there is a current preventive maintenance item to perform a robotic inspection of the service water piping every 8 years. When asked how making this enhancement would differ from what is done currently, Entergy stated that making this enhancement would ~~credit result in a regulatory commitment to perform~~ the inspection for license renewal and ensure that an inspection is performed during the second 10-year period ~~of the period of extended operation.~~

RAI 3.0.3-10 Request 2a

Entergy stated that it planned to ~~enhance the Service Water Integrity Program to perform a verification~~ verify that ~~service water system piping in areasthe valve pit(s) that experiencedare susceptible to~~ flooding ~~wereis~~ considered in-scope for license renewal. Additionally, the ~~P~~program would be enhanced to ensure that inspections on the non-safety related piping (within the scope of license renewal) would be conducted on the same frequency as the safety-related piping.

The NRC staff asked Entergy whether they had assessed the effectiveness of the corrective actions taken in response to Licensee Event Report (LER) 286/2011-003, considering that similar leakage was identified in a valve pit subsequent to the LER. Entergy stated that they ~~believed that the corrective actions taken were effective~~ were unaware of the circumstances ~~the second leak event~~ and asked the NRC staff to identify documentation describing the leakage to which the NRC staff had referred. The NRC staff committed to identifying the applicable documentation. ~~Entergy stated that it would address the effectiveness of the corrective actions subsequent to the LER in the response to this request.~~ (See **Action Items/Next Steps** below for additional information.)

RAI 3.0.3-10 Request 3

Entergy stated that it ~~proposlanned~~ to enhance the Service Water Integrity Program to include silt monitoring and that change would be implemented by identifying its relationship to license renewal in the IP2 and IP3 Generic Letter 89-13 program documentation.

RAI 3.0.3-10 Requests 4a and 4b

Entergy stated that it ~~proposlanned~~ to enhance the Service Water Integrity Program to incorporate layup procedures for the radiation monitoring piping. Entergy stated that the

subject leakage occurred when the system was isolated for maintenance without properly laying up the system beforehand.

RAI 3.0.3-10 Request 5a

Entergy stated that it ~~proposlanned~~ to enhance the Service Water Integrity Program by developing goals and increasing the ~~flushing~~-frequency of performing the ~~Sservice Wwater~~ Ppiping and Vvalve Fflushing procedure ~~from once every 2 years to annually~~, if these goals are exceeded.

RAI 3.0.3-10 Request 6

Entergy stated that it ~~proposlanned~~ to enhance the Service Water Integrity Program to clarify that the minimum number of augmented inspections that will be performed in response to any identified leakage associated with corrosion would be five inspections for through-wall leakage on A(2) piping.

Implementation Schedule

Entergy stated that all enhancements would be implemented as soon as practicable, but not later than December 31, 2019.

Public Participation Themes:

No questions or comments were provided to the NRC staff during the public participation portion of the meeting.

Action Items/Next Steps:

During the meeting, the NRC staff committed to providing Entergy with the reference to the documentation of additional valve pit leakage. Subsequent to the meeting, the NRC staff identified that the leakage appears to be documented in Condition Report CR-IP3-2013-0507.

Attachments:

- Meeting description and agenda – ML16265A460
- Entergy's agenda – MLXXX

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Attachments:

- Meeting description and agenda – ML16265A460
- Entergy's agenda – MLXXX

ADAMS Accession Nos.:

**(PKG)
(MEMO)**

***concurred via email**

OFFICE	LA:DLR	PM:RERP:DLR	BC:RARB:DLR	BC:RPB1:DLR
NAME		MWentzel	DMorey	YDiaz-Sanabria
DATE				

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RidsNrrDlrRerb Resource

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BHarris, OGC

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DMcIntyre, OPA

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DTift, RI

BHaagensen, RI

GNewman, RI

SRich, RI

**U.S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation
Division of License Renewal**

**Indian Point Nuclear Generating Unit Nos. 2 and 3
License Renewal Application**

**List of Participants
October 4, 2016**

PARTICIPANTS:

Brian Allik
Benjamin Beasley
William Burton
Yaira Diaz-Sanabria
Jim Gavula
Brian Harris
Bill Holston
Dennis Morey
David Roth
Michael Wentzel
Richard Burroni
Charles Caputo
Michael Kempski
Richard Louie
Thomas Orlando
Dennis Pennino
Andrew Taylor
Robert Walpole

AFFILIATIONS:

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ENCLOSURE