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NL-13-109

August 27, 2013

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
11555 Rockville Pike
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SUBJECT: Indian Point Energy Center's First Six-Month Status Report for the Implementation of Order EA-12-051 Modifying Licenses with Regard to Requirements for to Reliable Spent Fuel Pool Instrumentation (TAC Nos. MF0737 and MF0738)
Indian Point Unit Numbers 2 and 3
Docket Nos. 50-247 and 50-286
License Nos. DPR-26 and DPR-64

- References:**
1. NRC Order Number EA-12-051, Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation, dated March 12, 2012 (ML12054A682)
 2. NRC Interim Staff Guidance JLD-ISG-2012-03, Compliance with Order EA-12-051, Reliable Spent Fuel Pool Instrumentation, Revision 0, dated August 29, 2012
 3. NEI 12-02, Industry Guidance for Compliance with NRC Order EA-12-051, "To Modify Licenses with Regard to Reliable Spent Fuel Pool Instrumentation", Revision 1, dated August 2012
 4. Entergy letter to NRC (NL-12-145), Initial Status Report in Response to March 12, 2012 Commission Order Modifying Licenses with Regard to Requirements for Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051), dated October 29, 2012
 5. Entergy letter to NRC (NL-13-043), Overall Integrated Plan in Response to March 12, 2012 Commission Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation, dated February 27, 2013

Dear Sir or Madam:

On March 12, 2012, the Nuclear Regulatory Commission ("NRC" or "Commission") issued an order (Reference 1) to Entergy. Reference 1 was immediately effective and

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directs Entergy to install reliable spent fuel pool level instrumentation. Specific requirements are outlined in Attachment 2 of Reference 1.


Reference 1 required submission of an initial status report 60 days following issuance of the final interim staff guidance (Reference 2) and an overall integrated plan pursuant to Section IV, Condition C. Reference 2 endorses industry guidance document NEI 12-02, Revision 1 (Reference 3) with clarifications and exceptions identified in Reference 2. Reference 4 provided the Entergy initial status report regarding spent fuel pool instrumentation. Reference 5 provided the Entergy overall integrated plan.

Reference 1 requires submission of a status report at six-month intervals following submittal of the overall integrated plan. Reference 3 provides direction regarding the content of the status reports. The purpose of this letter is to provide the first six-month status report pursuant to Section IV, Condition C.2, of Reference 1, that delineates progress made in implementing the requirements of Reference 1. The attached report provides an update of milestone accomplishments since the last status report, including any changes to the compliance method, schedule, or need for relief and the basis, if any.

There are no new commitments identified in this submittal. If you have any questions concerning the content of this letter, please contact Mr. Robert Walpole, Manager, Licensing at (914) 254-6710.

I declare under penalty of perjury that the foregoing is true and correct. Executed on August 27, 2013.

Respectfully,



JAV/sp

Attachment: Indian Point Energy Center's First Six-Month Status Report for the Implementation of Order EA-12-051 Modifying Licenses with Regard to Requirements for to Reliable Spent Fuel Pool Instrumentation

cc: Mr. Douglas V. Pickett, Senior Project Manager, NRC NRR DORL
Mr. William M. Dean, Regional Administrator, NRC Region 1
NRC Resident Inspectors Office
Mr. Francis J. Murray, Jr., President and CEO, NYSERDA
Ms. Bridget Frymire, New York State Dept. of Public Service
Ms. Jessica A. Kratchman NRC NSIR DPR DDEP IRIB

ATTACHMENT TO NL-13-109

ENTERGY'S FIRST SIX-MONTH STATUS REPORT FOR THE
IMPLEMENTATION OF ORDER EA-12-051 MODIFYING LICENSES
WITH REGARD TO REQUIREMENTS FOR TO RELIABLE SPENT
FUEL POOL INSTRUMENTATION

ENTERGY NUCLEAR OPERATIONS, INC.
INDIAN POINT NUCLEAR GENERATING UNIT NOS. 2 and 3
DOCKET NOS. 50-247 and 50-286

Indian Point Energy Center's (IPEC) First Six Month Status Report for the Implementation of Order EA-12-051 Modifying Licenses with Regard to Requirements for to Reliable Spent Fuel Pool Instrumentation

Introduction

Entergy Nuclear Operations, Inc. (Entergy) developed an overall integrated plan (Reference 1) for Indian Point Energy Center (IPEC), documenting the requirements to install reliable spent fuel pool level instrumentation (SFPI), in response to Reference 2. This attachment provides an update of milestone accomplishments since submittal of the overall integrated plan, including any changes to the compliance method, schedule, or need for relief/relaxation and the basis, if any.

Milestone Accomplishments

None

Milestone Schedule Status

The following provides a line item update to milestone schedule to support the Overall Integrated Plan. It provides the activity status of each item, and whether the expected completion date has changed. The dates (current as of July 31, 2013) are planning dates subject to change as design and implementation details are developed.

Milestone	Target Completion Date	Activity Status	Revised Target Completion Date
Unit 3 Reliable SFPI Installed	Spring 2015 Refueling Outage	In Progress	
Unit 2 Reliable SFPI Installed	Spring 2016 Refueling Outage	In Progress	
Respond to NRC RAIs (Received June 25, 2013) (Reference 3)	August 23, 2013	Complete	

Changes to Compliance Method

The original OIP (Reference 1) indicated remote indication in the Control Room but this remote display will no longer be included. The following are the changes to the OIP based on this revision:

Page 5 of 19 : Displays and signal processors will be located in the respective Fan Houses (FH) and CCRs for both Indian Point 2 (IP2) and Indian Point 3 (IP3) and will be readily accessible.

Page 8 of 19: Instrument power is derived from the display/processors. The locations of the electronics package and the credited displays for both Unit 2 and Unit 3's SFP

instrument channels are within the respective Units' Fan Houses. ~~In both Unit 2 and Unit 3, a remote display for both channels of instrumentation will be located in the respective Central Control Room (CCR) via additional cabling.~~ The FH & CCR provides adequate protection against the effects of temperature, flood, humidity, radiation, seismic events, and missile hazards.

Page 9 of 19: The electronics packages are normally powered using 118/120VAC that is provided from separate panels that are powered from separate 480V buses at a minimum. On loss of normal AC power, each processor automatically continues to operate on its own dedicated backup battery supply. The backup batteries and associated UPS are located at the processor, seismically mounted, and qualified for the expected environment. The processor will also have connections designed to allow powering the processor from an external, portable power source.

~~Finally, the remote displays in each Unit's CCR will be powered via the current loop supplied by the electronics package.~~

Need for Relief/Relaxation and Basis for the Relief/Relaxation

IPEC expects to comply with the Order implementation date and no relief/relaxation is required at this time.

Open Items from Overall Integrated Plan and Draft Safety Evaluation

None.

Potential Draft Safety Evaluation Impacts

The Draft Safety Evaluation has not been issued at this time.

References

The following references support the updates to the overall integrated plan described in this attachment.

1. Entergy letter to NRC (NL-13-043), Overall Integrated Plan in Response to March 12, 2012 Commission Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation, dated February 27, 2013 (ADAMS Accession No. ML13072A082).
2. NRC Order Number EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation," dated March 12, 2012 (ADAMS Accession No. ML12054A682).
3. "Request for Additional Information Overall Integrated Plan in Response to Order EA-12-051, 'Reliable Spent Fuel Pool Instrumentation' Entergy Operations, Order No. EA-12-051 (TAC Nos. MF0737 and MF078)" Dated June 25, 2013 (ADAMS Accession No. ML13169A127).