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NL-12-132

October 1, 2012  
U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Mail Station O-P1-17  
Washington, D.C. 20555-0001

Subject: **Indian Point 2 (IP2) Nuclear Power Plant Amendment Update to the  
Final Safety Analysis Report (FSAR), Revision 23**  
Indian Point, Unit 2  
Docket No. 50-247  
License No. DPR-26

References: 1. NEI 98-03, "Guidelines for Updating Final Safety Analysis  
Reports," Revision 1, June 1999  
2. NEI 99-04, "Guidelines for Managing NRC Commitments,"  
Revision 2, December 1995

Dear Sir or Madam:

Entergy Nuclear Operations, Inc. (Entergy), in accordance with 10 CFR 50.71(e), hereby transmits the most recent update to the Updated Final Safety Analysis Report (UFSAR) for Indian Point Unit 2 (IP2). This submittal incorporates applicable changes made to the IP2 facility since the last UFSAR update in October 2010, through the information available as of April 1, 2012, the completion of the last IP2 refueling outage. This submittal constitutes the twenty third (23) revision to the IP2 UFSAR.

Entergy is submitting one copy of the entire IP2 UFSAR, IP2 Technical Specification Bases, IP2 Technical Requirements Manual (TRM), and the Holtec International, "Licensing Report on the Inter-Unit Transfer of Spent Nuclear Fuel at the Indian Point Energy Center" in the electronic medium of Adobe PDF on CD-ROM in accordance with the guidance contained in NRC, "General (Non-Adjudicatory) Electronic Submission Instructional Guide," June 11, 2009, Revision 4.

UFSAR changes to the text and tables since the last revision are indicated by gray highlighted background rather than a revision bar next to the line containing the change. Any UFSAR figures that have been revised since the last revision contain "Rev. 23" in the figure title block.

This update to the FSAR also contains information that has been classified as "Historical" information according to the NEI 98-03 definition (Reference 1), and is no longer subject to updating. Material designated as "Historical" information in the UFSAR is indicated by a green highlighted background.

*Designated original  
Letter entered into ADAMS  
without CD  
Douglas Pickett  
4-15-16*

*AD53  
NRR*

IP2 Technical Specification 5.5.12.d, "Technical Specification Bases Control Program," requires that changes to the Bases implemented without prior NRC approval be provided to the NRC on a frequency consistent with 10 CFR 50.71(e). The required information is provided in Attachment 1, "Summary of Revisions to the IP2 Technical Specification Bases" and the entire document is provided on the enclosed CD-ROM.

Attachment 2, "Revisions to IP2 Docketed Commitments," submits a summary update of all changes made to the Unit 2 docketed commitments using the NEI 99-04 guidance (Reference 2) for determination of commitments which do not have either a safety or regulatory significance, which may be changed without prior interaction with the NRC staff and which require periodic NRC staff, notification either annually or along with the FSAR updates as required by 10 CFR 50.71(e).

As specified in NEI 98-03 (Reference 1), the Technical Requirements Manual (TRM) is controlled in a manner consistent with procedures fully or partially described in the UFSAR. Under this approach, the TRM document is subject to the change control requirements of 10 CFR 50.59 and the update/reporting requirements of 10 CFR 50.71(e). Attachment 3 of this letter, "Summary of Revisions to the IP2 Technical Requirements Manual (TRM)," submits the summary of changes to the IP2 TRM for the same time period as the IP2 FSAR update and the entire document is provided on the enclosed CD-ROM.

Attachment 4 of this letter, "Summary Report to the NRC of Revision 23-UFSAR Changes," contains a summary with a brief description of the information changed in this revision to the IP2 UFSAR.

As specified in NEI 98-03 (Reference 1), the Holtec International, "Licensing Report on the Inter-Unit Transfer of Spent Nuclear Fuel at the Indian Point Energy Center" is a licensee controlled document that is explicitly "incorporated by reference" into the IPEC IP2 and IP3 UFSARs. Under this approach, the referenced document is subject to the change control requirements of 10 CFR 50.59 and the update/reporting requirements of 10 CFR 50.71(e). The entire document is provided on the enclosed CD-ROM.

Entergy is making no new commitments in this letter.

Should you or your staff have any questions regarding this submittal, please contact Mr. Robert Walpole, Manager, Licensing, Indian Point Energy Center (IPEC) at (914) 254-6710.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on 10/1/12  
Date

Sincerely,



JV/as

- Attachment:
1. Summary of Revisions to the IP2 Technical Specification Bases
  2. Revisions to IP2 Docketed Commitments
  3. Summary of Revisions to the IP2 Technical Requirements Manual (TRM)
  4. Summary Report of IP2 Revision 23 UFSAR Changes

Enclosure: CD-ROM containing the IP2 UFSAR (Rev. 23) files, entire documents of the IP2 T.S. Bases, IP2 TRM, and Rev. 6 of the Holtec International Licensing Report on the Inter-Unit Transfer of Spent Nuclear Fuel at IPEC

cc w/o enclosure:

NRC Resident Inspector's Office  
Mr. Douglas Pickett, Senior Project Manager, NRC NRR DORL  
Mr. William M. Dean, Regional Administrator, NRC Region 1  
Mr. Francis J. Murray, Jr., President and CEO, NYSERDA  
Ms. Bridget Frymire, NYS Department of Public Service

**ATTACHMENT 2 TO NL-12-132**

**REVISIONS TO IP2 DOCKETED COMMITMENTS**

ENTERGY NUCLEAR OPERATIONS, INC  
INDIAN POINT UNIT 2  
DOCKET NO. 50-247  
LICENSE NO. DPR-26

**INDIAN POINT 2**  
**2010 / 2012**  
**COMMITMENT CHANGE SUMMARY REPORT**

COMMITMENT NUMBER	CURRENT STATUS	CHANGED DATE	DESCRIPTION
A-2098 NL-90-015-C01	Open	12/28/2010	<p><b>Original text:</b>  We will implement a program to visually inspect the service water system intake structures of both Indian Point units 1 &amp; 2. Inspection will initially be conducted at a frequency of once per refueling cycle. The structures will be examined for macroscopic biological fouling, sedimentation and corrosion.</p> <p><b>Revised text:</b>  The station uses the preventative maintenance program to implement the required GL 89-13 inspections of the unit 1, 2, and 3 intake bays and structures. These PMs currently consist of the following tasks on set frequencies:  = silt monitoring and mapping  = full desilting, and trash/debris removal from the sw bays  = trash rack cleaning  Visual inspections may be included as part of these pm tasks. Visual inspections by divers, however, present personal safety concerns when divers enter the SW pump bays with pumps running and have been found to be extremely limited in their usefulness in determining overall bay conditions due to water turbidity &amp; murkiness in the SW pump bays. Based on the pm results, Entergy will take the required mitigating actions when unacceptable biological fouling, sedimentation, and/or corrosion conditions are identified.</p>

COMMITMENT NUMBER	CURRENT STATUS	CHANGED DATE	DESCRIPTION
			<p><b>Summary of justification:</b>  Revise NRC Commitments A-2098 (IP2) &amp; P-7740 (IP3) to make clear that "visual" inspections may be, but are not necessarily, performed. The original PM's to visually inspect the intake structures at IP2 and IP3 were deactivated due to safety concerns of having divers entering the SW pump bays with pumps running. Additionally, based on completed diver inspections, water turbidity &amp; murkiness in the SW Pump Bays made diver visual inspections extremely limited in their usefulness in determining overall bay conditions.</p> <p>The station uses the Preventative Maintenance Program to implement the required GL 89-13 inspections of the Unit 1, 2, and 3 Intake Bays and Structures. These PMs currently consist of:</p> <ul style="list-style-type: none"> <li>• Silt monitoring and mapping</li> <li>• Full desilting, and trash/debris removal from the SW Bays</li> <li>• Trash rack cleaning</li> </ul>
A-19 NL-72-B13-C02	Closed	8/3/2011	<p><b>Original text:</b>  However, the Class III line in the PAB with the largest nominal flow rate would take approximately 2 1/2 hours to flood to the Elevation 19'. To preclude flooding to Elevation 19', modifications will be made to the door to the transformer yard so that sufficient flow area is available for drainage of the water under the worst conditions of failure of Class III lines in the PAB.</p> <p><b>Revised text:</b>  However, the Class III line in the PAB with the largest nominal flow rate would take approximately 2 1/2 hours to flood to the Elevation 19'. To preclude flooding to Elevation 19', modifications will be made to the door to the transformer yard so that sufficient flow area is available for drainage of</p>