



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION I
2100 RENAISSANCE BLVD.
KING OF PRUSSIA, PA 19406-2713

August 10, 2016

Mr. Anthony J. Vitale
Site Vice President
Entergy Nuclear Operations, Inc.
Indian Point Energy Center
450 Broadway, GSB
P.O. Box 249
Buchanan, NY 10511-0249

**SUBJECT: INDIAN POINT POWER STATION – EVALUATED EMERGENCY
PREPAREDNESS EXERCISE – INSPECTION REPORT 05000247/2016502
AND 05000286/2016502**

Dear Mr. Vitale:

On July 1, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection of the June 28, 2016, evaluated emergency preparedness exercise at the Indian Point Energy Center, Units 2 and 3. The enclosed inspection report documents the inspection results, which were discussed on July 1, 2016, with Mr. J. Ferrick, Director, Regulatory Assurance and Performance Improvement, and other members of your staff.

The inspection examined activities conducted under your licenses as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your licenses. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel.

The NRC inspectors did not identify any findings or violations of more than minor significance.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390, "Public Inspections, Exemptions, Requests for Withholding," of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response (if any) will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records component of the NRC's Agencywide Documents Access and Management System (ADAMS).

A. Vitale

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Sincerely,

/RA/

Raymond R. McKinley, Chief
Plant Support Branch 1
Division of Reactor Safety

Docket Nos. 50-247 and 50-286
License Nos. DPR-26 and DPR-64

Enclosure:
Inspection Report 05000247/2016502 and 05000286/2016502
w/Attachment: Supplementary Information

cc w/encl: Distribution via ListServ
W. Cullen, RAC Chair (Acting), FEMA Region II

A. Vitale

-2-

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U.S. NUCLEAR REGULATORY COMMISSION

REGION I

Docket Nos. 50-247 and 50-286

License Nos. DPR-26 and DPR-64

Report Nos. 05000247/2016502 and 05000286/2016502

Licensee: Entergy Nuclear Northeast (Entergy)

Facility: Indian Point Nuclear Generating Units 2 and 3 (Indian Point)

Location: 450 Broadway, GSB
Buchanan, NY 10511-0249

Dates: June 27 – July 1, 2016

Inspectors: S. Barr, Senior Emergency Preparedness Inspector,
Division of Reactor Safety, Region I (Lead)
S. LaVie, Senior Emergency Preparedness Specialist, Division of
Preparedness and Response, Office of Nuclear
Security and Incident Response
B. Haagensen, Senior Resident Inspector, Division of Reactor
Projects, Region I
P. Ott, Operations Inspector, Division of Reactor Safety, Region I

Approved By: Raymond R. McKinley, Chief
Plant Support Branch 1
Division of Reactor Safety

SUMMARY

Inspection Report 05000247/2016502 and 05000286/2016502; 06/27/2016 – 07/01/2016; Indian Point Energy Center (IPEC), Units 2 and 3; Exercise Evaluation – Scenario Review – Performance Indicator Verification.

This report covers an announced inspection conducted by three Region I-based inspectors and one Headquarters based inspector. No findings were identified during the inspection. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 6.

Cornerstone: Emergency Preparedness

No findings were identified.

REPORT DETAILS

1. REACTOR SAFETY

Cornerstone: Emergency Preparedness

1EP1 Exercise Evaluation (71114.01 – 1 sample)

a. Inspection Scope

On June 28, 2016, Entergy conducted a biennial IPEC emergency preparedness (EP) exercise. The inspectors evaluated the adequacy of Entergy's conduct of the exercise, the performance of the Indian Point emergency response organization (ERO) to respond to the simulated emergency, and Entergy's capability to assess their own staff performance via a formal critique process, as required by Title 10 of the *Code of Federal Regulations* (CFR) 50.47(b)(14). This overall exercise inspection activity represented the completion of one sample on a biennial cycle.

The exercise evaluation consisted of the following review and assessment:

- The adequacy of Entergy's performance in the biennial full-participation exercise regarding the implementation of the risk-significant planning standards described in 10 CFR 50.47(b)(4), (5), (9), and (10), which are: emergency classification; offsite notification; radiological assessment; and protective action recommendations, respectively.
- The overall adequacy of Entergy's Indian Point emergency response facilities with regard to NUREG-0696, "Functional Criteria for Emergency Response Facilities," and Emergency Plan commitments. The facilities assessed were the Control Room Simulator, Technical Support Center, and Emergency Operations Facility.
- A review of other performance areas, such as: Entergy ERO's recognition of abnormal plant conditions; command and control; intra- and inter-facility communications; prioritization of mitigating activities; utilization of repair and field monitoring teams; interface with offsite agencies; staffing and procedure adequacy; and the overall implementation of the emergency plan and its implementing procedures.
- A review of past performance issues from the last NRC Indian Point exercise inspection report and Entergy's EP drill reports, to determine the effectiveness of Entergy corrective actions as demonstrated during the June 28, 2016, exercise and to ensure compliance with 10 CFR 50.47(b)(14).
- Entergy's post-exercise critiques, to evaluate Entergy's self-assessment of its ERO performance during the June 28, 2016, exercise and to ensure compliance with 10 CFR Part 50, Appendix E, Section IV.F.2.g.

The inspectors reviewed the documents listed in the attachment to this report.

b. Findings

No findings were identified.

1EP8 Exercise Evaluation – Scenario Review (71114.08 – 1 sample)

a. Inspection Scope

Prior to the June 28, 2016, EP exercise, the NRC inspectors conducted an in-office review of the exercise objectives and scenario Entergy had submitted to the NRC, to determine if the exercise would test major elements of IPEC's Emergency Plan as required by 10 CFR 50.47(b)(14). This overall exercise inspection activity represented the completion of one sample on a biennial cycle. The inspectors reviewed the documents listed in the attachment to this report.

b. Findings

No findings were identified.

4. OTHER ACTIVITIES (OA)

4OA1 Performance Indicator (PI) Verification (71151 – 3 samples)

a. Inspection Scope

The inspectors reviewed data for the Indian Point EP PIs, which are: (1) Drill and Exercise Performance; (2) ERO Drill Participation; and, (3) Alert and Notification System Reliability. The last NRC EP inspection at Indian Point was conducted in the third calendar quarter of 2015, so the inspectors reviewed supporting documentation from EP drills, training records, and equipment tests from the third calendar quarter of 2015 through the second quarter of 2016, to verify the accuracy of the reported PI data. The review of these PIs was conducted in accordance with NRC Inspection Procedure 71151, using the acceptance criteria documented in Nuclear Energy Institute Document 99-02, "Regulatory Assessment Performance Indicator Guidelines," Revision 6.

This inspection activity represented the completion of three samples.

b. Findings

No findings were identified.

4OA6 Meetings, including Exit

On July 1, 2016, the inspectors presented the results of this inspection to Mr. J. Ferrick, Director, Regulatory Assurance and Performance Improvement, and other members of the Entergy staff. No proprietary information was provided to the inspectors during this inspection.

ATTACHMENT: SUPPLEMENTARY INFORMATION

SUPPLEMENTARY INFORMATION

KEY POINTS OF CONTACT

Licensee Personnel

J. Ferrick, Director, Regulatory Assurance and Performance Improvement
L. Glander, Manager, Emergency Preparedness

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

None.

LIST OF DOCUMENTS REVIEWED

Section 1EP1: Exercise Evaluation

Indian Point Energy Center Emergency Plan, Revision 18
Indian Point Energy Center Emergency Implementing Procedures
Indian Point Energy Center Emergency Plan Administrative Procedures
Indian Point June 28, 2016, Emergency Exercise Scenario Package
Indian Point Emergency Preparedness Drill Reports, October 2014 – June 2016
Indian Point Energy Center Emergency Preparedness June 28, 2016, Exercise Performance Report, dated July 27, 2016

Section 1EP8: Exercise Evaluation – Scenario Review

Indian Point Energy Center Emergency Plan Revision 18
Indian Point Energy Center Emergency Plan Administrative Procedures
Indian Point June 28, 2016, Emergency Exercise Scenario Package

Section 4OA1: Performance Indicator (PI) Verification

EN-LI-114, Performance Indicator Process, Revision 6
EN-FAP-EP-005, Emergency Preparedness Performance Indicators, Revision 3
DEP PI data, July 2015 – March 2016
ERO Drill Participation PI data, July 2015 – March 2016
ANS Reliability PI data, July 2015 – March 2016

LIST OF ACRONYMS

CFR	<i>Code of Federal Regulations</i>
EP	Emergency Preparedness
ERO	Emergency Response Organization
IPEC	Indian Point Energy Center
NRC	Nuclear Regulatory Commission
PI	Performance Indicator