



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

REGION I  
2100 RENAISSANCE BLVD., SUITE 100  
KING OF PRUSSIA, PA 19406-2713

March 2, 2016

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

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR INDIAN POINT NUCLEAR  
GENERATING, UNITS 2 AND 3 (REPORT 05000247/2015006 AND  
05000286/2015006)**

Dear Mr. Coyle:

On February 10, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of Indian Point Nuclear Generating (Indian Point), Units 2 and 3. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2015, through December 31, 2015. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined the performance at Indian Point Unit 2 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program," because all inspection findings had very low (i.e., Green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., Green). The NRC determined the performance at Indian Point Unit 3 during the most recent quarter was within the Regulatory Response Column of the NRC's ROP Action Matrix, because all inspection findings had very low safety significance (i.e., Green), and one PI was of low to moderate safety significance (i.e., White) in the Initiating Events cornerstone. Specifically, the "Unplanned Scrams per 7000 Critical Hours" PI exceeded the Green/White threshold in the fourth quarter of the assessment period. Therefore, in addition to ROP baseline inspections, the NRC plans to schedule and conduct a supplemental inspection in accordance with Inspection Procedure (IP) 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area," upon notification of your readiness. The inspection will be focused on ensuring that the root causes and contributing causes of the performance issue are understood, the extent of condition and cause are identified, and the corrective actions are sufficient to prevent recurrence.

The enclosed inspection plan lists the inspections scheduled through December 31, 2017. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to baseline inspections, the NRC will conduct IP 60845, "Operation of Inter-Unit Fuel Transfer Canister and Cask System," and IP 60855.1, "Operation of an Independent Spent Fuel Storage Installation at Operating Plants." The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact

you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security-related inspections, which will be sent via separate, non-publicly available correspondence.

In response to the accident at Fukushima, the Commission issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events." This Order requires licensees to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities following a beyond-design-basis external event. Additionally, the Commission issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation." This Order requires licensees to have a reliable means of remotely monitoring wide-range spent fuel pool levels to support effective prioritization of event mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these Orders. The audits were conducted during the weeks of November 30, 2015, and October 27, 2014, for Indian Point Units 2 and 3, respectively, and the information gathered will aid staff in development of the Final Safety Evaluation for the site. After the NRC staff receives the Final Compliance letter for the site, the Final Safety Evaluation will be issued. Then, the NRC staff will confirm through inspections the full implementation of the orders mentioned above by performing Temporary Instruction 2515-191, "Inspection of the Implementation of Mitigating Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communications/Staffing/Multi-Unit Dose Assessment Plans." The schedule for this inspection at Indian Point is shown in the Enclosure.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records component of NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact Mr. Glenn Dentel at 610-337-5233 with any questions you have regarding this letter.

Sincerely,

/RA/

Michael L. Scott, Director  
Division of Reactor Projects

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

Enclosure:  
Indian Point Inspection/Activity Plan

cc w/encl: Distribution via ListServ

you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security-related inspections, which will be sent via separate, non-publicly available correspondence.

In response to the accident at Fukushima, the Commission issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events." This Order requires licensees to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities following a beyond-design-basis external event. Additionally, the Commission issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation." This Order requires licensees to have a reliable means of remotely monitoring wide-range spent fuel pool levels to support effective prioritization of event mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these Orders. The audits were conducted during the weeks of November 30, 2015, and October 27, 2014, for Indian Point Units 2 and 3, respectively, and the information gathered will aid staff in development of the Final Safety Evaluation for the site. After the NRC staff receives the Final Compliance letter for the site, the Final Safety Evaluation will be issued. Then, the NRC staff will confirm through inspections the full implementation of the orders mentioned above by performing Temporary Instruction 2515-191, "Inspection of the Implementation of Mitigating Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communications/Staffing/Multi-Unit Dose Assessment Plans." The schedule for this inspection at Indian Point is shown in the Enclosure.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records component of NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact Mr. Glenn Dentel at 610-337-5233 with any questions you have regarding this letter.

Sincerely,

/RA/

Michael L. Scott, Director  
Division of Reactor Projects

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

Enclosure:  
Indian Point Inspection/Activity Plan

cc w/encl: Distribution via ListServ

DISTRIBUTION: (via email)

See next page

DOCUMENT NAME: S:\ROP Assessment Meetings\ROP-16 EOC Review\Branch 2\Indian Point\IP ROP 16 EOC Items\Indian Point End-of-Cycle Letter.docx

ADAMS Accession No. **ML16060A077**

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	RI/DRP	RI/DRP	RI/DRP		
NAME	ADeFrancisco/AED	GDentel/GTD	MScott/MLS		
DATE	2/23/16	2/23/16	2/29/16		

OFFICIAL RECORD COPY

Letter to Mr. Larry Coyle from Michael L. Scott dated March 2, 2016

SUBJECT: ANNUAL ASSESSMENT LETTER FOR INDIAN POINT NUCLEAR  
GENERATING, UNITS 2 AND 3 (REPORT 05000247/2015006 AND  
05000286/2015006)

DISTRIBUTION: (via email)

DDorman, RA  
DLew, DRA  
MScott, DRP  
JColaccino, DRP  
RLorson, DRS  
BSmith, DRS  
GDentel, DRP  
ADeFrancisco, DRP  
JSchussler, DRP  
BPinson, DRP  
BHaagensen, DRP, SRI  
GNewman, DRP, RI  
SRich, DRP, RI  
DHochmuth, DRP, AA  
TClark, RI OEDO  
RidsNrrPMIndianPoint Resource  
RidsNrrDorlLp1-1 Resource  
ROPReports Resource  
DRS Branch Chiefs (6)  
DScrenci, PAO,  
NSheehan, PAO  
NMcNamara, SLO  
DTifft, SLO  
ROPAssessment Resource  
RidsNrrDirslpab Resource

**Indian Point**  
**Inspection / Activity Plan**  
**01/01/2016 - 12/31/2017**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>71124 - HP</b>		<b>1</b>
2	03/07/2016	03/11/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2	03/07/2016	03/11/2016	IP 71124.02	Occupational ALARA Planning and Controls	
			<b>ISI - U2 INSERVICE INSPECTION</b>		<b>1</b>
2	03/14/2016	03/25/2016	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>EP - EP EXERCISE EVALUATION</b>		<b>4</b>
2,3	06/27/2016	07/01/2016	IP 7111401	Exercise Evaluation	
			<b>TRI FI - TRIENNIAL FIRE PROTECTION</b>		<b>4</b>
2	05/23/2016	05/27/2016	IP 7111105T	Fire Protection [Triennial]	
2	06/06/2016	06/10/2016	IP 7111105T	Fire Protection [Triennial]	
			<b>71124.07 - REMP</b>		<b>1</b>
2,3	06/13/2016	06/17/2016	IP 71124.07	Radiological Environmental Monitoring Program	
			<b>EXM10/31 - INDIAN POINT 2 INITIAL EXAMINATION</b>		<b>3</b>
2	10/03/2016	10/07/2016	U01926	FY17-IP2 INITIAL OPERATOR LICENSING EXAM	
2	10/31/2016	11/04/2016	U01926	FY17-IP2 INITIAL OPERATOR LICENSING EXAM	
			<b>ISFSI - ISFSI WET TRANSFER INSPECTION</b>		<b>1</b>
2,3	07/25/2016	07/29/2016	IP 60845	Operation of Inter-Unit Fuel Transfer Canister and Cask System	
			<b>7111111B - IP2 REQUAL INSP WITH P/F RESULTS</b>		<b>2</b>
2	09/19/2016	09/23/2016	IP 7111111B	Licensed Operator Requalification Program	
			<b>71124 - HP INSPECTION</b>		<b>1</b>
2,3	09/19/2016	09/23/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2,3	09/19/2016	09/23/2016	IP 71124.02	Occupational ALARA Planning and Controls	
2,3	09/19/2016	09/23/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
			<b>71124 - HP &amp; PI&amp;R VERIFICATION</b>		<b>1</b>
2,3	11/14/2016	11/18/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2,3	11/14/2016	11/18/2016	IP 71124.05	Radiation Monitoring Instrumentation	
2,3	11/14/2016	11/18/2016	IP 71151-OR01	Occupational Exposure Control Effectiveness	
2,3	11/14/2016	11/18/2016	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			<b>71124 - RETS INSPECTION</b>		<b>1</b>
2,3	01/23/2017	01/27/2017	IP 71124.05	Radiation Monitoring Instrumentation	
2,3	01/23/2017	01/27/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			<b>71124 - HP INSPECTION</b>		<b>1</b>
3	03/13/2017	03/17/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	

This report does not include INPO and OUTAGE activities.  
This report shows only on-site and announced inspection procedures.

Enclosure

**Indian Point**  
**Inspection / Activity Plan**  
**01/01/2016 - 12/31/2017**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>71124 - HP INSPECTION</b>		<b>1</b>
3	03/13/2017	03/17/2017	IP 71124.02	Occupational ALARA Planning and Controls	
			<b>7111108P - U3 INSERVICE INSPECTION</b>		<b>1</b>
3	03/13/2017	03/24/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>7111105T - TRIENNIAL FIRE PROTECTION</b>		<b>7</b>
2, 3	05/01/2017	05/05/2017	IP 7111105T	Fire Protection [Triennial]	
2, 3	05/15/2017	05/19/2017	IP 7111105T	Fire Protection [Triennial]	
			<b>71124 - HP INSPECTION</b>		<b>1</b>
2, 3	05/08/2017	05/12/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	05/08/2017	05/12/2017	IP 71124.02	Occupational ALARA Planning and Controls	
			<b>TI-191 - FUKUSHIMA LESSONS-LEARNED</b>		<b>1</b>
2, 3	05/08/2017	05/12/2017	IP 2515/191	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Request March 12, 2012	
			<b>10/30EXM - INDIAN POINT 3 INITIAL EXAM</b>		<b>4</b>
3	10/02/2017	10/06/2017	U01947	FY18-IP3 INITIAL OPERATOR LICENSING EXAM	
3	10/30/2017	11/03/2017	U01947	FY18-IP3 INITIAL OPERATOR LICENSING EXAM	
			<b>MODS - PERMANENT PLANT MODIFICATIONS</b>		<b>4</b>
2, 3	06/05/2017	06/09/2017	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
2, 3	06/19/2017	06/23/2017	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			<b>EP - EP PROGRAM INSPECTION</b>		<b>1</b>
2, 3	07/10/2017	07/14/2017	IP 7111402	Alert and Notification System Testing	
2, 3	07/10/2017	07/14/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
2, 3	07/10/2017	07/14/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
2, 3	07/10/2017	07/14/2017	IP 71151	Performance Indicator Verification	
			<b>7111111B - IP3 REQUAL INSP WITH P/F RESULTS</b>		<b>2</b>
3	09/18/2017	09/22/2017	IP 7111111B	Licensed Operator Requalification Program	
			<b>71124 - HP &amp; PI&amp;R</b>		<b>1</b>
2, 3	08/14/2017	08/18/2017	IP 71124.04	Occupational Dose Assessment	
2, 3	08/14/2017	08/18/2017	IP 71151-OR01	Occupational Exposure Control Effectiveness	
2, 3	08/14/2017	08/18/2017	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			<b>ISFSI - ISFSI LOADING CAMPAIGN INSPECTION</b>		<b>1</b>
2, 3	09/04/2017	09/08/2017	IP 60855	Operation Of An ISFSI	
2, 3	09/04/2017	09/08/2017	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	

This report does not include INPO and OUTAGE activities.  
This report shows only on-site and announced inspection procedures.

**Indian Point**  
**Inspection / Activity Plan**  
**01/01/2016 - 12/31/2017**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
<b>71152B - PI&amp;R BIENNIAL TEAM INSPECTION</b>					<b>5</b>
2, 3	11/27/2017	12/01/2017	IP 71152B	Problem Identification and Resolution	
2, 3	12/11/2017	12/15/2017	IP 71152B	Problem Identification and Resolution	
<b>71124.08 - RADWASTE</b>					<b>1</b>
2, 3	11/13/2017	11/17/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	

This report does not include INPO and OUTAGE activities.  
This report shows only on-site and announced inspection procedures.