



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

March 1, 2017

Mr. Anthony Vitale  
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 05000247/2016006 AND  
05000286/2016006)**

Dear Mr. Vitale:

The U.S. Nuclear Regulatory Commission (NRC) has completed its end-of-cycle performance assessment of Indian Point Nuclear Generating (Indian Point), Units 2 and 3, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2016, through December 31, 2016. 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 concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at Indian Point Unit 2 during the most recent quarter was within the Licensee Response Column, the highest performance column of the NRC's Reactor Oversight Process (ROP) Action Matrix in Inspection Manual Chapter (IMC) 0305, "Operating Reactor Assessment Program," because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at Unit 2.

The NRC determined the performance at Indian Point Unit 3 during the most recent quarter was within the Regulatory Response Column, the second highest performance column of the NRC's ROP Action Matrix in IMC 0305. This conclusion was based on a White PI for "Unplanned Scrams per 7,000 Hours Critical," which crossed the Green-White threshold on December 14, 2015, due to an unplanned automatic scram. In response to this White PI Action Matrix input, the NRC performed a supplemental inspection using Inspection Procedure (IP) 95001, "Supplemental Inspection Response to Action Matrix Column 2 Inputs." The IP 95001 inspection was successfully completed on October 13, 2016, and by letter dated November 21, 2016 (ML16326A064<sup>1</sup>), Indian Point Unit 3 transitioned to the Licensee Response Column.

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<sup>1</sup> The designation in parentheses refers to an Agencywide Documents Access and Management System (ADAMS) Accession Number. Documents referenced in this letter are publicly available using the Accession Number in ADAMS.

The enclosed inspection plan lists the inspections scheduled through December 31, 2018. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. 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 the plan for security-related inspections, which will be sent via separate, non-publicly available correspondence.

In addition to the 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 ISFSI at Operating Plants." Additionally, NRC staff will perform Temporary Instruction 2515-192, "Inspection of the Licensee's Interim Compensatory Measures Associated with the Open Phase Condition (OPC) Design Vulnerabilities in Electric Power Systems."

On December 3, 2014, the NRC issued one Severity Level III traditional enforcement violation at River Bend Station associated with a willful violation of Title 10 of the *Code of Federal Regulations* (10 CFR) Part 73. As part of an Alternate Dispute Resolution mediation settlement agreement between Entergy and the NRC, an Order was issued (ML14339A167) requiring verification at all Entergy sites. In accordance with IMC 0305, Section 13.02.b, the NRC will follow up at Indian Point on the violation through IP 92702, "Follow-up on Traditional Enforcement Actions Including Violations, Deviations, Confirmatory Action Letters, Confirmatory Orders, and Alternative Dispute Resolution Confirmatory Orders." This inspection will be conducted during the routine security baseline inspection on July 17, 2017.

In accordance with 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 (PARS) component of NRC's document 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 Thomas Setzer at (610) 337-5165 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

SUBJECT: ANNUAL ASSESSMENT LETTER FOR INDIAN POINT NUCLEAR GENERATING, UNITS 2 AND 3 (REPORT 05000247/2016006 AND 05000286/2016006) DATED MARCH 1, 2017

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DOCUMENT NAME: S:\ROP Assessment Meetings\ROP-17 EOC Review\Branch 2\Indian Point\ROP-17 Indian Point End-of-Cycle Letter.docx

ADAMS Accession Number: **ML17059D265**

<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	BSmith	TSetzer	MScott		
DATE	2/27/17	2/27/17	2/28/17		

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**Indian Point**  
**Inspection / Activity Plan**  
**01/01/2017 - 12/31/2018**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>ISFSI - ISFSI OPERATIONAL INSPECTION</b>		<b>2</b>
2, 3	01/23/2017	02/03/2017	IP 60855	Operation Of An ISFSI	
2, 3	01/23/2017	02/03/2017	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			<b>71124.06 - RETS INSPECTION</b>		<b>1</b>
2, 3	01/23/2017	01/27/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			<b>7111108P - U3 INSERVICE INSPECTION</b>		<b>1</b>
3	03/20/2017	03/31/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>71124 - HP INSPECTION</b>		<b>1</b>
3	03/27/2017	03/31/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
3	03/27/2017	03/31/2017	IP 71124.02	Occupational ALARA Planning and Controls	
			<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>10/30EXM - INDIAN POINT 3 INITIAL OL 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>50.59 - EVALS OF CHANGES, TESTS, &amp; EXPERIMENTS</b>		<b>3</b>
2, 3	06/19/2017	06/23/2017	IP 7111117T-5059scrm	screenings and/or applicability determinations	
			<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>71124 - HP &amp; PI&amp;R</b>		<b>1</b>
2, 3	08/14/2017	08/18/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2, 3	08/14/2017	08/18/2017	IP 71124.05	Radiation Monitoring Instrumentation	
2, 3	08/14/2017	08/18/2017	IP 71151-OR01	Occupational Exposure Control Effectiveness	
			<b>71152B - PI&amp;R BIENNIAL</b>		<b>6</b>
2, 3	09/18/2017	09/22/2017	IP 71152B	Problem Identification and Resolution	
2, 3	10/02/2017	10/06/2017	IP 71152B	Problem Identification and Resolution	
			<b>7111111B - IP3 REQUAL INSP WITH P/F RESULTS</b>		<b>2</b>
3	10/16/2017	10/20/2017	IP 7111111A	Licensed Operator Requalification Program - Annual Review	
3	10/16/2017	10/20/2017	IP 7111111B	Licensed Operator Requalification Program	

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

Enclosure

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**01/01/2017 - 12/31/2018**

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	Start	End			
			<b>7111105T - TRIENNIAL FIRE PROTECTION</b>		<b>7</b>
2, 3	10/16/2017	10/20/2017	IP 7111105T	Fire Protection [Triennial]	
2, 3	10/30/2017	11/03/2017	IP 7111105T	Fire Protection [Triennial]	
			<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	
2, 3	11/13/2017	11/17/2017	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			<b>71124 - HP INSPECTION</b>		<b>1</b>
2	03/26/2018	03/30/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2	03/26/2018	03/30/2018	IP 71124.02	Occupational ALARA Planning and Controls	
2	03/26/2018	03/30/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
			<b>U2 ISI - UNIT 2 INSERVICE INSPECTION</b>		<b>2</b>
2	03/26/2018	04/06/2018	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>71124.07 - REMP</b>		<b>1</b>
2, 3	06/11/2018	06/15/2018	IP 71124.07	Radiological Environmental Monitoring Program	
			<b>HEAT - TRIENNIAL HEAT SINK</b>		<b>2</b>
2, 3	07/16/2018	07/20/2018	IP 7111107T	Heat Sink Performance	
			<b>60845 - OPERATION OF INTER-UNIT FUEL TRANSFER</b>		<b>1</b>
2, 3	08/01/2018	08/31/2018	IP 60845	Operation of Inter-Unit Fuel Transfer Canister and Cask System	
			<b>7111121M - DESIGN BASES ASSURANCE INSPECTION (TEAM)</b>		<b>7</b>
2, 3	08/06/2018	08/10/2018	IP 7111121M	Component Design Bases Inspection (Teams)	
2, 3	08/20/2018	08/24/2018	IP 7111121M	Component Design Bases Inspection (Teams)	
			<b>2/4EXAM - INDIAN POINT 2 INITIAL EXAM</b>		<b>4</b>
2	12/17/2018	12/21/2018	U01962	FY19- INDIAN POINT 2 INITIAL OPERATOR LICENSING EXAM	
			<b>EP - EP EXERCISE INSPECTION</b>		<b>4</b>
2, 3	09/24/2018	09/28/2018	IP 7111401	Exercise Evaluation	
2, 3	09/24/2018	09/28/2018	IP 71151	Performance Indicator Verification	
			<b>71124 - BASELINE HP</b>		<b>1</b>
2, 3	09/17/2018	09/21/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	09/17/2018	09/21/2018	IP 71124.02	Occupational ALARA Planning and Controls	
2, 3	09/17/2018	09/21/2018	IP 71124.04	Occupational Dose Assessment	
			<b>71124 - BASELINE HP &amp; PI VERIFICATION</b>		<b>1</b>
2, 3	12/03/2018	12/07/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	12/03/2018	12/07/2018	IP 71124.02	Occupational ALARA Planning and Controls	

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<b>71124 - BASELINE HP &amp; PI VERIFICATION</b>					<b>1</b>
2, 3	12/03/2018	12/07/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2, 3	12/03/2018	12/07/2018	IP 71124.04	Occupational Dose Assessment	
2, 3	12/03/2018	12/07/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
2, 3	12/03/2018	12/07/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	

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