



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

August 31, 2016

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: MID-CYCLE ASSESSMENT LETTER FOR INDIAN POINT NUCLEAR  
GENERATING UNITS 2 AND 3 (REPORT 05000247/2016005 AND  
05000286/2016005)**

Dear Mr. Vitale:

On August 9, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed its mid-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 July 1, 2015, through June 30, 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 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 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 also 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 2015. While the White PI returned to Green in the second quarter of 2016, Unit 3 will remain in the regulatory response column until a supplemental inspection to review the actions taken to address performance issues is completed.

On July 11, 2016, your staff notified the NRC of your readiness for it to conduct the supplemental inspection associated with the unplanned scrams. Therefore, in addition to ROP baseline inspections, the NRC plans to conduct the supplemental inspection in accordance with Inspection Procedure 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area," beginning September 19, 2016. The inspection will be focused on ensuring that the root causes and contributing causes of the unplanned scrams 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 June 30, 2018. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to baseline inspections, the NRC will conduct Inspection Procedure 60845, "Operation of Inter-Unit Fuel Transfer Canister and Cask System." The inspections listed during the last half of the inspection period in the inspection plan are tentative and may be revised at the end-of-cycle performance review. 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, the plan for 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," and Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation." The NRC conducted audits of licensee efforts towards compliance with these Orders, and the information gathered will aid staff in development of the Final Safety Evaluation for the site. The NRC staff has received the Final Compliance letter for the Indian Point site; and the Safety Evaluation will be issued when it is completed. 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 Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans."

In Staff Requirements Memorandum – SECY 16-0009, "Recommendations Resulting from the Integrated Prioritization and Re-Baselining of Agency Activities," (Agencywide Documents Access and Management System (ADAMS) Accession No. ML16104A158) the Commission approved the NRC staff recommendation to discontinue the formal mid-cycle assessment process beginning in calendar year 2017. This will be the final mid-cycle assessment letter. The staff will continue to conduct assessment reviews and communicate changes in the assessment of licensee performance quarterly, and will also issue end-of-cycle assessment letters.

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

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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 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

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

ADAMS Accession No. **ML16239A153**

<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	RI/DRP	
NAME	BHaagensen via email	KWarner	GDentel	MScott	
DATE	8/23/16	8/23/16	8/24/16	8/24/16	

OFFICIAL RECORD COPY

**Indian Point**  
**Inspection / Activity Plan**  
**07/01/2016 - 06/30/2018**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>EP - EP EXERCISE EVALUATION</b>		<b>4</b>
2, 3	06/27/2016	07/01/2016	IP 7111401	Exercise Evaluation	
			<b>71124.07 - REMP</b>		<b>1</b>
2, 3	06/04/2018	06/08/2018	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>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>95001 - SUPPLEMENTAL INSP FOR WHITE PI -</b>		<b>2</b>
3	09/19/2016	09/23/2016	IP 95001	Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area	
			<b>60845 - OPERATION OF INTER-UNIT FUEL TRANSFER</b>		<b>2</b>
2, 3	10/02/2016	10/07/2016	IP 60845	Operation of Inter-Unit Fuel Transfer Canister and Cask System	
			<b>TRI FI - TRIENNIAL FIRE PROTECTION</b>		<b>4</b>
2	11/28/2016	12/02/2016	IP 7111105T	Fire Protection [Triennial]	
2	12/12/2016	12/16/2016	IP 7111105T	Fire Protection [Triennial]	
			<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>71124.06 - 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	03/13/2017	03/24/2017	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	

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

Enclosure

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			<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>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	07/17/2017	07/21/2017	IP 7111402	Alert and Notification System Testing	
2, 3	07/17/2017	07/21/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
2, 3	07/17/2017	07/21/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
2, 3	07/17/2017	07/21/2017	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 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>5</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>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	

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**Inspection / Activity Plan**  
**07/01/2016 - 06/30/2018**

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<b>U2 ISI - UNIT 2 INSERVICE INSPECTION</b>					
2	03/26/2018	04/06/2018	IP 7111108P	Inservice Inspection Activities - PWR	2

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