



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

September 1, 2015

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: MID-CYCLE ASSESSMENT LETTER FOR INDIAN POINT NUCLEAR  
GENERATING UNITS 2 AND 3 (REPORT 05000247/2015005  
AND 05000286/2015005)**

Dear Mr. Coyle:

On August 12, 2015, 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, 2014, through June 30, 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 that overall, Indian Point Units 2 and 3 operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Indian Point Units 2 and 3 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). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through June 30, 2017. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the second half of the inspection plan are tentative and may be revised at the end-of-cycle performance review. In addition to baseline inspections, the NRC will perform Inspection Procedure (IP) 60855, "Operation of an Independent Spent Fuel Storage Installation at Operating Plants," IP 92723, "Follow-up Inspection for Three or More Severity Level IV Traditional Enforcement Violations in the Same Area in a 12 Month Period," IP 60845, "Operation of Inter-Unit Fuel Transfer Canister and Cask System," Temporary Instruction (TI) 2516/001, "Review of License Renewal Activities," and TI 2515/191, "Inspection of the Implementation of Mitigating Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans." 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," which 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," which 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 onsite portion of this audit has been completed for Indian Point Unit 3, and the information gathered will aid staff in development of the Final Safety Evaluation for the site. The NRC staff will decide if another site audit visit is needed for Unit 2 based on the licensee's updates for the Unit 2 strategy. After the NRC staff receives the Final Compliance letter for the site, the Final Safety Evaluation will be issued. Then, as mentioned above, the NRC staff will confirm through inspections the full implementation of the orders mentioned above performing TI 2515/191, "Inspection of the Implementation of Mitigating Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans."

In accordance with Title 10 of the *Code of Federal Regulations*, Part 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 me at (610)337-5069 with any questions you have regarding this letter.

Sincerely,

*/RA/*

Arthur L. Burritt, Chief  
Reactor Projects Branch 2  
Division of Reactor Projects

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

Enclosure:  
Indian Point 2 & 3 Inspection/Activity Plan

cc w/encl: Distribution via ListServ

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," which 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," which 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 onsite portion of this audit has been completed for Indian Point Unit 3, and the information gathered will aid staff in development of the Final Safety Evaluation for the site. The NRC staff will decide if another site audit visit is needed for Unit 2 based on the licensee's updates for the Unit 2 strategy. After the NRC staff receives the Final Compliance letter for the site, the Final Safety Evaluation will be issued. Then, as mentioned above, the NRC staff will confirm through inspections the full implementation of the orders mentioned above performing TI 2515/191, "Inspection of the Implementation of Mitigating Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans."

In accordance with Title 10 of the *Code of Federal Regulations*, Part 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 me at (610)337-5069 with any questions you have regarding this letter.

Sincerely,

/RA/

Arthur L. Burrirt, Chief  
Reactor Projects Branch 2  
Division of Reactor Projects

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

Enclosure:  
Indian Point 2 & 3 Inspection/Activity Plan

cc w/encl: Distribution via ListServ

DISTRIBUTION: (via email)

See next page

DOCUMENT NAME: S:\ROP Assessment Meetings\ROP-16 Mid-Cycle Review\Branch 2\Indian Point\ROP-16 IP Mid-Cycle Letter\_final.docx  
ADAMS Accession No. **ML15240A054**

<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			
NAME	TSetzer/TCS	ABurrirt/ALB			
DATE	8/18/15	8/19/15			

OFFICIAL RECORD COPY

Letter to Larry Coyle from Arthur L. Burritt dated September 1, 2015

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR INDIAN POINT NUCLEAR  
GENERATING UNITS 2 AND 3 (REPORT 05000247/2015005 AND  
05000286/2015005)

DISTRIBUTION: (via email)

DDorman, RA  
DLew, DRA  
MScott, DRP  
JColaccino, DRP  
RLorson, DRS  
GSuber, DRS  
ABurritt, DRP  
TSetzer, DRP  
JSchussler, DRP  
BPinson, DRP  
SStewart, DRP, SRI  
GNewman, DRP, RI  
SRich, DRP, RI  
DHochmuth, DRP, AA  
KMorganButler, RI OEDO  
RidsNrrPMIndianPoint Resource  
RidsNrrDorlLp1-1 Resource  
ROPReports Resources  
ADimitriadis, DRS  
JNoggle, DRS  
MGray, DRS  
PKrohn, DRS  
JRogge, DRS  
DJackson, DRS  
DScrenci, PAO,  
NSheehan, PAO  
NMcNamara, SLO  
DTift, SLO  
ROPAssessment Resource  
RidsNrrDirslpabResource

**Indian Point**  
**Inspection / Activity Plan**  
**07/01/2015 - 06/30/2017**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>7111107T - TRIENNIAL HEAT SINK</b>		<b>1</b>
2,3	07/06/2015	07/10/2015	IP 7111107T	Heat Sink Performance	
			<b>CDBI - COMPONENT DESIGN BASIS INSPECTION</b>		<b>7</b>
2,3	07/20/2015	07/24/2015	IP 7111121	Component Design Bases Inspection	
2,3	08/03/2015	08/07/2015	IP 7111121	Component Design Bases Inspection	
2,3	08/17/2015	08/21/2015	IP 7111121	Component Design Bases Inspection	
			<b>7111111B - IP3 REQUAL INSP W/ P/F RESULTS</b>		<b>2</b>
3	09/21/2015	09/25/2015	IP 7111111B	Licensed Operator Requalification Program	
			<b>71124 - HP</b>		<b>1</b>
2,3	08/10/2015	08/14/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2,3	08/10/2015	08/14/2015	IP 71124.05	Radiation Monitoring Instrumentation	
2,3	08/10/2015	08/14/2015	IP 71151	Performance Indicator Verification	
			<b>EP - EP PROGRAM INSPECTION</b>		<b>1</b>
2,3	08/17/2015	08/21/2015	IP 7111402	Alert and Notification System Testing	
2,3	08/17/2015	08/21/2015	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
2,3	08/17/2015	08/21/2015	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
			<b>ISFSI - ISFSI LOADING INSPECTION</b>		<b>2</b>
2,3	08/17/2015	08/21/2015	IP 60855	Operation Of An ISFSI	
2	08/17/2015	08/21/2015	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			<b>2516-001 - TI 2516-001 U3 LR COMMITMENTS INSPECTION</b>		<b>1</b>
3	10/05/2015	10/09/2015	IP 2516/001	Review of License Renewal Activities	
			<b>71124.08 - RADWASTE</b>		<b>1</b>
2,3	11/16/2015	11/20/2015	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			<b>71152B - PI&amp;R - BIENNIAL</b>		<b>4</b>
2,3	11/30/2015	12/04/2015	IP 71152B	Problem Identification and Resolution	
2,3	12/14/2015	12/18/2015	IP 71152B	Problem Identification and Resolution	
			<b>92723 - 92723 - IMPACTING REGULATORY PROCESS</b>		<b>1</b>
2,3	12/07/2015	12/11/2015	IP 92723	Follow Up Inspection for Three or More Severity Level IV Traditional Enforcement Violations in the S	
			<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	

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**  
**07/01/2015 - 06/30/2017**

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>TRI FI - TRIENNIAL FIRE PROTECTION</b>		<b>4</b>
2, 3	05/23/2016	05/27/2016	IP 7111105T	Fire Protection [Triennial]	
2, 3	06/06/2016	06/10/2016	IP 7111105T	Fire Protection [Triennial]	
			<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>71124.07 - REMP</b>		<b>1</b>
2, 3	06/20/2016	06/24/2016	IP 71124.07	Radiological Environmental Monitoring Program	
			<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	09/12/2016	09/16/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2, 3	09/12/2016	09/16/2016	IP 71124.02	Occupational ALARA Planning and Controls	
2, 3	09/12/2016	09/16/2016	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>TI-191 - FUKUSHIMA LESSONS-LEARNED</b>		<b>1</b>
2, 3	11/14/2016	11/18/2016	IP 2515/191	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Request March 12, 2012	
			<b>71124 - RETS INSPECTION</b>		<b>1</b>
2, 3	01/09/2017	01/13/2017	IP 71124.05	Radiation Monitoring Instrumentation	
2, 3	01/09/2017	01/13/2017	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	
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	

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

**Indian Point**  
**Inspection / Activity Plan**  
**07/01/2015 - 06/30/2017**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
<b>7111105T - TRIENNIAL FIRE PROTECTION</b>					<b>5</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>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	

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