



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

March 3, 2010

Mr. Joseph E. Pollock
Site Vice President
Entergy Nuclear Operations, Inc.
Indian Point Energy Center
450 Broadway, GSB
Buchanan, NY 10511-0249

SUBJECT: ANNUAL ASSESSMENT LETTER - INDIAN POINT NUCLEAR GENERATING
UNITS 2 AND 3 (REPORTS 05000247/2010001 & 05000286/2010001)

Dear Mr. Pollock:

On February 12, 2010, the NRC staff completed its performance review of Indian Point Nuclear Generating (Indian Point) Units 2 and 3. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results from January 1 through December 31, 2009. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only – Security Information" will include the security cornerstone review and resultant inspection plan.

Overall, Indian Point Units 2 and 3 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance at Unit 2 for the most recent quarter, as well as for the first three quarters of the assessment cycle, was within the Licensee Response column of the NRC's Action Matrix based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at Unit 2.

Plant performance for the most recent quarter at Unit 3 was within the Regulatory Response column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and one PI of low to moderate safety significance (White) in the Initiating Events cornerstone. Specifically, the Unit 3 "Unplanned Scrams per 7000 Critical Hours" PI exceeded the Green/White threshold of greater than three scrams per 7000 critical hours in the third and fourth quarters of the assessment cycle.

On January 28, 2010, we were notified by your staff of your readiness for the NRC to conduct a supplemental inspection to review your actions taken to address the Unit 3 "Unplanned Scrams per 7000 Critical Hours" PI. Therefore, we plan to conduct a supplemental inspection using

Inspection Procedure 95001, "Inspection for One or Two White Inputs in a Strategic Performance Area," beginning on April 19, 2010. This inspection is conducted to provide assurance that the root causes and contributing causes of risk significant performance issues are understood, the extent of condition is identified, and the corrective actions are sufficient to prevent recurrence.

In addition to the baseline inspection program at Units 2 and 3, and the supplemental inspection at Unit 3, we plan to conduct independent spent fuel storage installation inspections.

With regard to the replacement Alert and Notification System (ANS), we plan to monitor your performance through the Alert and Notification System PI and through baseline inspections. Specifically, our inspection plan includes focused problem identification and resolution baseline inspections to review your corrective actions related to the replacement ANS test results from December 2009. Additionally, the NRC plans to continue to monitor your activities related to final review and approval of the replacement ANS by the Federal Emergency Management Agency.

During this assessment period, the NRC staff continued augmented oversight of your activities related to on-site groundwater contamination in accordance with the ROP Deviation Memorandum in effect for calendar year 2009 [ADAMS Ref. ML083590057]¹. A team of NRC inspectors conducted an onsite inspection in August and September 2009, to review your activities associated with characterization and mitigation of onsite groundwater contamination. Based on the inspection results documented in an inspection report dated October 19, 2009, [ADAMS Ref. ML092920121] and NRC's monitoring of sampling activities and independent testing of groundwater samples, the NRC concluded that you have satisfied the closure requirements detailed in the Deviation Memorandum regarding the establishment, implementation, and maintenance of an effective groundwater program to provide continued radiological monitoring of the groundwater conditions at the Indian Point Energy Center (IPEC). Therefore, we plan to implement normal baseline inspections to assess your implementation of the groundwater monitoring program at IPEC.

The enclosed inspection plan details the baseline inspections, less those related to physical protection, scheduled through June 30, 2011. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last six months of the inspection plan are tentative and may be revised at the mid-cycle safety performance review.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made 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).

¹ Designation in parentheses refers to ADAMS Accession Number. Documents referenced in this letter are publicly available using the Accession Number in ADAMS.

J. Pollock

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If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact Mel Gray at 610-337-5209 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

A handwritten signature in black ink, appearing to read "David C. Lew", with a long horizontal flourish extending to the right.

David C. Lew
Director, Division of Reactor Projects

Docket Nos. 50-247 and 50-286
License No. DPR-26 and DPR-64

Enclosures: Indian Point Nuclear Generating Unit 2 and Unit 3 Inspection/Activity Plans

cc w/encl: Distribution via ListServ

J. Pollock

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact Mel Gray at 610-337-5209 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

David C. Lew
Director, Division of Reactor Projects

Docket Nos. 50-247 and 50-286
License No. DPR-26 and DPR-64

Enclosures: Indian Point Nuclear Generating Unit 2 and Unit 3 Inspection/Activity Plans

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DATE	02/24/2010	02/24/2010	03/03/2010				

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Indian Point
Inspection / Activity Plan
01/01/2010 - 06/30/2011

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
2	01/25/2010	01/29/2010	TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION	Fire Protection [Triennial]	3
2	02/08/2010	02/12/2010	IP 7111105T	Fire Protection [Triennial]	
2	06/14/2010	06/18/2010	7112EXAM - U2 INITIAL OPERATOR LICENSING EXAM	FY10 - INDIAN POINT U2 INITIAL OPERATOR LICENSING EXAM	4
2	07/12/2010	07/23/2010	U01787	FY10 - INDIAN POINT U2 INITIAL OPERATOR LICENSING EXAM	
2	03/15/2010	03/19/2010	71124 - UNIT 2 OUTAGE HP INSP-ACCESS/ALARA/AIR	Radiological Hazard Assessment and Exposure Controls	1
2	03/15/2010	03/19/2010	IP 71124.01	Occupational ALARA Planning and Controls	
2	03/15/2010	03/19/2010	IP 71124.02	In-Plant Airborne Radioactivity Control and Mitigation	
2	03/15/2010	03/19/2010	IP 71124.03		
2	03/15/2010	03/19/2010	PIR - ANS CORRECTIVE ACTION FOLLOW-UP		1
2	03/15/2010	03/19/2010	IP 71152-Reviews	In-depth Reviews	
2	03/15/2010	03/26/2010	7111108P - U2 INSERVICE INSPECTION	Inservice Inspection Activities - PWR	1
2	03/15/2010	03/26/2010	IP 7111108P		
2	03/15/2010	03/26/2010	TI-172 - U2 TI 2515/172 DISSIMILAR METAL WELDS	Reactor Coolant System Dissimilar Metal Butt Welds	1
2	03/15/2010	03/26/2010	IP 2515/172		
2	05/03/2010	05/07/2010	71152B - PI&R		4
2	05/17/2010	05/21/2010	IP 71152B	Identification and Resolution of Problems	
2	05/17/2010	05/21/2010	IP 71152B	Identification and Resolution of Problems	
2	06/28/2010	07/02/2010	71124 - HP INSP -DOSE/REMP/ISFSI		1
2	06/28/2010	07/02/2010	IP 60855	Operation Of An ISFSI	
2	06/28/2010	07/02/2010	IP 71124.04	Occupational Dose Assessment	
2	06/28/2010	07/02/2010	IP 71124.07	Public Radiation Safety	
2	09/27/2010	10/01/2010	7111111B - REQUAL INSP (IP2) WITH P/F RESULTS	Licensed Operator Requalification Program	3
2	09/13/2010	09/17/2010	IP 7111111B		
2	09/13/2010	09/17/2010	EP EX - EP EXERCISE EVALUATION		4
2	09/13/2010	09/17/2010	IP 7111401	Exercise Evaluation	
2	09/13/2010	09/17/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
2	09/13/2010	09/17/2010	IP 71151-EP01	Drill/Exercise Performance	
2	09/13/2010	09/17/2010	IP 71151-EP02	ERO Drill Participation	
2	09/13/2010	09/17/2010	IP 71151-EP03	Alert & Notification System	
2	12/06/2010	12/10/2010	71124 - OCC HP INSPECTION-ALARA/ACCESS/PI		1
2	12/06/2010	12/10/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2	12/06/2010	12/10/2010	IP 71124.02	Occupational ALARA Planning and Controls	
2	12/06/2010	12/10/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	

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

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
2	12/06/2010 12/10/2010	71124 - OCC HP INSPECTION-ALAR/A/ACCESS/PI IP 71151-PR01	RETS/ODCM Radiological Effluent	1
2	01/10/2011 01/14/2011	71124 - HP INSP-INSTRUMENTS IP 71124.05	Radiation Monitoring Instrumentation	1
2	01/10/2011 01/14/2011	TI-177 - MANAGING GAS ACCUMULATION IN ECCS IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	1
2	03/21/2011 03/25/2011	71124 - HP INSP-ACCESS IP 71124.01	Radiological Hazard Assessment and Exposure Controls	1
2	06/13/2011 06/17/2011	71124 - HP INSP-RAD WASTE & ISFSI IP 60855	Operation Of An ISFSI	1
2	06/13/2011 06/17/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	1

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Indian Point 3
 Inspection / Activity Plan
 01/01/2010 - 06/30/2011

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
3	01/25/2010	01/29/2010	TRI FIRE - IP3 PORTIONS OF THE TRI FIRE IP 711105T	Fire Protection [Triennial]	1
3	03/15/2010	03/19/2010	71124 - HP OUTAGE INSPECTION IP 71124.01	Radiological Hazard Assessment and Exposure Controls	1
3	03/15/2010	03/19/2010	PIR - ANS CORRECTIVE ACTION FOLLOW-UP IP 71152-Reviews	In-depth Reviews	1
3	03/22/2010	03/26/2010	71124 - HP OUTAGE INSPECTION IP 71124.02	Occupational ALARA Planning and Controls	1
3	03/22/2010	03/26/2010	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	2
3	04/19/2010	04/23/2010	95001 - 95001 SUPPLEMENTAL INSPECTION IP 95001	Supplemental Inspection For One Or Two White Inputs In A Strategic Performance Area	5
3	09/06/2010	09/10/2010	10/04EXM - U3 INITIAL OPERATOR LICENSING EXAM U01789	FY11 - INDIAN POINT U3 INITIAL OPERATOR LICENSING EXAM	1
3	10/04/2010	10/15/2010	U01789	FY11 - INDIAN POINT U3 INITIAL OPERATOR LICENSING EXAM	1
3	06/28/2010	07/02/2010	71124 - HP- DOSE / REMP /ISFSI IP 71124.04	Occupational Dose Assessment	4
3	06/28/2010	07/02/2010	IP 71124.07	Public Radiation Safety	1
3	09/13/2010	09/17/2010	EP EX - EP EXERCISE EVALUATION IP 7111401	Exercise Evaluation	4
3	09/13/2010	09/17/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	1
3	09/13/2010	09/17/2010	IP 71151-EP01	Drill/Exercise Performance	1
3	09/13/2010	09/17/2010	IP 71151-EP02	ERO Drill Participation	1
3	09/13/2010	09/17/2010	IP 71151-EP03	Alert & Notification System	1
3	10/04/2010	10/08/2010	CDBI - COMPONENT DESIGN BASES INSPECTION IP 711121	Component Design Bases Inspection	6
3	10/18/2010	10/29/2010	IP 711121	Component Design Bases Inspection	1
3	12/06/2010	12/10/2010	71124 - HP-ACCESS/ALARA/PI VERIFICATION IP 71124.01	Radiological Hazard Assessment and Exposure Controls	1
3	12/06/2010	12/10/2010	IP 71124.02	Occupational ALARA Planning and Controls	1
3	12/06/2010	12/10/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	1
3	12/06/2010	12/10/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	1
3	01/10/2011	01/14/2011	71124 - HP INSTRUMENTS IP 71124.05	Radiation Monitoring Instrumentation	1
3	01/10/2011	01/14/2011	TI-177 - MANAGING GAS ACCUMULATION IN ECCS IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	2

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Indian Point 3
 Inspection / Activity Plan
 01/01/2010 - 06/30/2011

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
3	03/14/2011 03/25/2011	7111108P - U3 INSERVICE INSPECTION IP 7111108P	Inservice Inspection Activities - PWR	1
3	03/21/2011 03/25/2011	71124 - HP ACCESS IP 71124.01	Radioactive Solid Waste Processing and Exposure Controls	1
3	05/09/2011 05/13/2011	TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION IP 7111105T	Fire Protection [Triennial]	3
3	05/23/2011 05/27/2011	IP 7111105T	Fire Protection [Triennial]	3
3	06/13/2011 06/17/2011	71124 - HP- RAD WASTE /SFSI IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	1

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