



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

September 1, 2015

Mr. Pete Orphanos
Site Vice President
Nine Mile Point Nuclear Station
Exelon Generation Company, LLC
P.O. Box 63
Lycoming, NY 13093

**SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR NINE MILE POINT NUCLEAR
STATION UNITS 1 AND 2 (REPORT 05000220/2015005
AND 05000410/2015005)**

Dear Mr. Orphanos:

On August 12, 2015, the U.S. Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of Nine Mile Point Nuclear Station (NMPNS) Units 1 and 2. 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, NMPNS Units 1 and 2 operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at NMPNS Units 1 and 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). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

In addition to baseline inspections, the NRC will perform Inspection Procedure 92702, "Follow-up on Traditional Enforcement Actions Including Violations, Deviations, Confirmatory Action Letters, Confirmatory Orders, and Alternate Dispute Resolution Confirmatory Orders," and Temporary Instruction (TI) 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." 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 last half of 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, 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 was completed at NMPNS Unit 1 in November 2014, and a second audit has been scheduled to be completed at NMPNS Unit 2 during the week of November 16, 2015. An audit plan for this visit will be provided in advance to allow sufficient time for preparations. 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, as mentioned above, the NRC staff will confirm through inspections the full implementation of the orders performing TI 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 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) 337-5262 with any questions you have regarding this letter.

Sincerely,

/RA/

Daniel L. Schroeder, Chief
Reactor Projects Branch 1
Division of Reactor Projects

Docket Nos. 50-220 and 50-410
License Nos. DPR-63 and NPF-69

Enclosure:
NMPNS Inspection/Activity Plan

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OFFICE	RI/DRP/PB1	RI/DRP/PB1			
NAME	ARosebrook/AAR	DSchroeder/DLS			
DATE	8/17/15	8/18/15			

Nine Mile Point
Inspection / Activity Plan
 07/01/2015 - 06/30/2017

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			TRI FI	- TRIENNIAL FIRE PROTECTION INSPECTION	7
1,2	07/06/2015	07/10/2015	IP 7111105T	Fire Protection [Triennial]	
			71152B	- PI&R - BIENNIAL	4
1,2	08/10/2015	08/14/2015	IP 71152B	Problem Identification and Resolution	
1,2	08/24/2015	08/28/2015	IP 71152B	Problem Identification and Resolution	
			11/30EXM	- U2 INITIAL OL EXAM	3
2	11/02/2015	11/06/2015	U01920	FY16-NMP2 INITIAL OPERATOR LICENSING EXAM	
2	11/30/2015	12/04/2015	U01920	FY16-NMP2 INITIAL OPERATOR LICENSING EXAM	
			71124	- RAD SAFETY INSPECTION	1
1,2	08/03/2015	08/07/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	08/03/2015	08/07/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	08/03/2015	08/07/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	08/03/2015	08/07/2015	IP 71124.04	Occupational Dose Assessment	
			7111111B	- U2 REQUAL INSP WITH P/F RESULTS	2
2	10/19/2015	10/23/2015	IP 7111111B	Licensed Operator Requalification Program	
			EP	- EP EXERCISE	5
1,2	10/19/2015	10/23/2015	IP 7111407	Exercise Evaluation - Hostile Action (HA) Event	
1,2	10/19/2015	10/23/2015	IP 7111408	Exercise Evaluation – Scenario Review	
			RS1234PI	- HP INSPECTION	1
1,2	04/24/2016	04/29/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	04/24/2016	04/29/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	04/24/2016	04/29/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	04/24/2016	04/29/2016	IP 71124.04	Occupational Dose Assessment	
			ISI	- U2 INSERVICE INSPECTION	1
2	04/25/2016	04/29/2016	IP 7111108G	Inservice Inspection Activities - BWR	
			7111107T	- TRIENNIAL HEAT SINK	1
1,2	06/20/2016	06/24/2016	IP 7111107T	Heat Sink Performance	
			EP	- EP PROGRAM INSPECTION	1
1,2	07/11/2016	07/15/2016	IP 7111402	Alert and Notification System Testing	
1,2	07/11/2016	07/15/2016	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1,2	07/11/2016	07/15/2016	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
			RS125	- HP INSPECTION	1
1,2	07/18/2016	07/22/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	07/18/2016	07/22/2016	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

Nine Mile Point
Inspection / Activity Plan
 07/01/2015 - 06/30/2017

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			RS125 - HP INSPECTION		1
1,2	07/18/2016	07/22/2016	IP 71124.05	Radiation Monitoring Instrumentation	
			71124.08 - RADWASTE		1
1,2	07/25/2016	07/29/2016	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			RS56PI - EFFLUENTS AND PUBLIC PI		1
1,2	08/22/2016	08/26/2016	IP 71124.05	Radiation Monitoring Instrumentation	
1,2	08/22/2016	08/26/2016	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1,2	08/22/2016	08/26/2016	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			2/6EXAM - NINE MILE POINT 1 INITIAL EXAM		3
1	01/09/2017	01/13/2017	U01941	FY17-NMP 1 INITIAL OPERATOR LICENSING EXAM	
1	02/06/2017	02/10/2017	U01941	FY17-NMP 1 INITIAL OPERATOR LICENSING EXAM	
			7111111B - NMP1 REQUAL INSP WITH P/F RESULTS		2
1	10/24/2016	10/28/2016	IP 7111111B	Licensed Operator Requalification Program	
			ISFSI - ISFSI OPERATIONS INSPECTION		1
1,2	09/12/2016	09/16/2016	IP 60855	Operation Of An ISFSI	
1,2	09/12/2016	09/16/2016	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			7111117T - PERMANENT PLANT MODIFICATIONS		3
1,2	09/12/2016	09/16/2016	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			RS1234 - HP INSPECTION		1
1,2	09/19/2016	09/23/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	09/19/2016	09/23/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	09/19/2016	09/23/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	09/19/2016	09/23/2016	IP 71124.04	Occupational Dose Assessment	
1	09/19/2016	09/23/2016	IP 71151-OR01	Occupational Exposure Control Effectiveness	
			7111117T - PERMANENT PLANT MODIFICATIONS		3
1,2	09/26/2016	09/30/2016	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			TI-191 - FUKUSHMIA LESSONS-LEARNED		1
1,2	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	
			7111108G - U1 INSERVICE INSPECTION		1
1	03/27/2017	03/31/2017	IP 7111108G	Inservice Inspection Activities - BWR	
			RS123 - HP INSPECTION		1
1,2	03/27/2017	03/31/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	03/27/2017	03/31/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	03/27/2017	03/31/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	

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Nine Mile Point
Inspection / Activity Plan
07/01/2015 - 06/30/2017

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			RS7	- REMP/PI	1
1, 2	06/05/2017	06/09/2017	IP 71124.07	Radiological Environmental Monitoring Program	
1	06/05/2017	06/09/2017	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	

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