



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

March 2, 2016

Mr. Bryan C. Hanson
Senior Vice President, Exelon Generation Company, LLC
President and Chief Nuclear Officer, Exelon Nuclear
4300 Winfield Road
Warrenville, IL 60555

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR NINE MILE POINT NUCLEAR
STATION, UNITS 1 AND 2 (REPORT 05000220/2015006 AND
05000410/2015006)**

Dear Mr. Hanson:

On February 11, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of Nine Mile Point Nuclear Station, Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2015, through December 31, 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, Nine Mile Point Nuclear Station, 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 Nine Mile Point Nuclear Station, Units 1 and 2 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process 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 enclosed inspection plan lists the inspections scheduled through December 31, 2017. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to baseline inspections, the NRC will perform Inspection Procedure 60855.1, "Operation of an Independent Spent Fuel Storage Installation at Operating Plants," and Temporary Instruction (TI) 2515-191, "Inspection of the Implementation of Mitigating Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communications/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." This Order 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." This Order 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 audit was completed for Nine Mile Point Nuclear Station, Units 1 and 2, and 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, the NRC staff will confirm through inspections the full implementation of the orders mentioned above by performing TI 2515-191, "Inspection of the Implementation of Mitigating Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communications/Staffing/Multi-Unit Dose Assessment Plans."

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 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 610-337-6953 with any questions you have regarding this letter.

Sincerely,

/RA/

Anthony Dimitriadis, Chief
Reactor Projects Branch 1
Division of Reactor Projects

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

Enclosure:
Nine Mile Point Inspection/Activity Plan

cc w/encl: Distribution via ListServ

B. Hanson

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Nine Mile Point Inspection/Activity Plan

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| ARosebrook, DRP | RidsNrrDorlLpl1-1 Resource | RidsNrrDirslpab Resource |

DOCUMENT NAME: S:\ROP Assessment Meetings\ROP-16 EOC Review\Branch 1\Nine Mile Point\2015 Nine Mile Point Annual Asmt Ltr.docx
ADAMS Accession No. **ML16061A201**

| | | | | | |
|--|----------------|---|--|---|--|
| <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 | ARosebrook/AAR | ADimitriadis/AD | | | |
| DATE | 02/23/2016 | 02/23/2016 | | | |

Nine Mile Point
Inspection / Activity Plan
01/01/2016 - 12/31/2017

| Unit Number | Planned Dates | | Inspection Activity | Title | No. of Staff on Site |
|---|---------------|------------|---------------------|---|----------------------|
| | Start | End | | | |
| 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 | |
| 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 | |
| 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 | |
| 7111107T - TRIENNIAL HEAT SINK | | | | | 1 |
| 1, 2 | 08/15/2016 | 08/19/2016 | IP 7111107T | Heat Sink Performance | |
| 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 | | | | | 4 |
| 1 | 01/03/2017 | 01/06/2017 | U01941 | FY17-NMP 1 INITIAL OPERATOR LICENSING EXAM | |
| 1 | 02/06/2017 | 02/10/2017 | U01941 | FY17-NMP 1 INITIAL OPERATOR LICENSING EXAM | |
| 7111117T - PERMANENT PLANT MODIFICATIONS | | | | | 4 |
| 1, 2 | 09/12/2016 | 09/16/2016 | IP 7111117T | Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications | |
| 1, 2 | 09/26/2016 | 09/30/2016 | IP 7111117T | Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications | |
| 7111111B - NMP1 REQUAL INSP WITH P/F RESULTS | | | | | 2 |
| 1 | 10/24/2016 | 10/28/2016 | IP 7111111B | Licensed Operator Requalification Program | |
| RS1234 - HP INSPECTION | | | | | 1 |
| 1, 2 | 09/19/2016 | 09/23/2016 | IP 71124.01 | Radiological Hazard Assessment and Exposure 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
01/01/2016 - 12/31/2017

| Unit Number | Planned Dates | | Inspection Activity | Title | No. of Staff on Site |
|-------------|---------------|------------|---|---|----------------------|
| | Start | End | | | |
| | | | RS1234 - HP INSPECTION | | 1 |
| 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 | |
| | | | TI-191 - FUKUSHIMA LESSONS-LEARNED | | 1 |
| 1, 2 | 02/27/2017 | 03/03/2017 | 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 | |
| | | | 10/23EXM - NMP2 INITIAL EXAM (SROS) | | 3 |
| 2 | 09/25/2017 | 09/29/2017 | U01955 | FY 18 NINE MILE PT 2 EXAM (OCTOBER 2017) | |
| 2 | 10/23/2017 | 10/27/2017 | U01955 | FY 18 NINE MILE PT 2 EXAM (OCTOBER 2017) | |
| | | | 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 | |
| | | | ISFSI - ISFSI LOADING CAMPAIGN INSPECTION | | 1 |
| 1, 2 | 06/19/2017 | 06/23/2017 | IP 60855 | Operation Of An ISFSI | |
| 1, 2 | 06/19/2017 | 06/23/2017 | IP 60855.1 | Operation of an Independent Spent Fuel Storage Installation at Operating Plants | |
| | | | RS345 - HP INSPECTION | | 1 |
| 1, 2 | 07/24/2017 | 07/28/2017 | IP 71124.03 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 1, 2 | 07/24/2017 | 07/28/2017 | IP 71124.04 | Occupational Dose Assessment | |
| 1, 2 | 07/24/2017 | 07/28/2017 | IP 71124.05 | Radiation Monitoring Instrumentation | |
| | | | 7111111B - NMP2 REQUAL INSPECTION WITH P/F RESULTS | | 2 |
| 2 | 10/16/2017 | 10/20/2017 | IP 7111111B | Licensed Operator Requalification Program | |
| | | | EP - EP EXERCISE INSPECTION | | 4 |
| 1, 2 | 10/23/2017 | 10/27/2017 | IP 7111401 | Exercise Evaluation | |
| 1, 2 | 10/23/2017 | 10/27/2017 | IP 71151 | Performance Indicator Verification | |
| | | | RS12 - HP INSPECTION | | 1 |
| 1, 2 | 09/18/2017 | 09/22/2017 | IP 71124.01 | Radiological Hazard Assessment and Exposure Controls | |

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Nine Mile Point
Inspection / Activity Plan
01/01/2016 - 12/31/2017

| Unit Number | Planned Dates | | Inspection Activity | Title | No. of Staff on Site |
|---|---------------|------------|---------------------|---|----------------------|
| | Start | End | | | |
| RS12 - HP INSPECTION | | | | | 1 |
| 1, 2 | 09/18/2017 | 09/22/2017 | IP 71124.02 | Occupational ALARA Planning and Controls | |
| 1 | 09/18/2017 | 09/22/2017 | IP 71151-OR01 | Occupational Exposure Control Effectiveness | |
| 7111121 - CDBI | | | | | 7 |
| 1, 2 | 09/18/2017 | 09/22/2017 | IP 7111121 | Component Design Bases Inspection | |
| 1, 2 | 10/02/2017 | 10/06/2017 | IP 7111121 | Component Design Bases Inspection | |
| 1, 2 | 10/16/2017 | 10/20/2017 | IP 7111121 | Component Design Bases Inspection | |
| 71152B - PI&R BIENNIAL TEAM INSPECTION | | | | | 5 |
| 1, 2 | 10/30/2017 | 11/03/2017 | IP 71152B | Problem Identification and Resolution | |
| 1, 2 | 11/13/2017 | 11/17/2017 | IP 71152B | Problem Identification and Resolution | |

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