



**UNITED STATES**  
**NUCLEAR REGULATORY COMMISSION**  
REGION I  
2100 RENAISSANCE BOULEVARD, SUITE 100  
KING OF PRUSSIA, PA 19406-2713

March 3, 2020

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

SUBJECT: ANNUAL ASSESSMENT LETTER FOR THE NINE MILE POINT NUCLEAR  
STATION, UNITS 1 AND 2 (REPORTS 05000220/2019006 AND  
05000410/2019006)

Dear Mr. Hanson,

The NRC has completed its end-of-cycle performance assessment of your Nine Mile Point Nuclear Station (Nine Mile Point), Units 1 and 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2019, through December 31, 2019. 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 concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at Nine Mile Point during the most recent quarter was within the Licensee Response Column (Column 1) of the NRC's Reactor Oversight Process (ROP) Action Matrix in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program," because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at Nine Mile Point.

The enclosed inspection plan lists the inspections scheduled through December 31, 2021. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. You should be aware that the agency is pursuing potential changes to the ROP, including changes to engineering inspections (SECY-18-0113, "Recommendations for Modifying the Reactor Oversight Process Engineering Inspections") and other changes to the baseline inspection program described in SECY-19-0067, "Recommendations for Enhancing the Reactor Oversight Process." Should these changes to the ROP be implemented, the engineering and other region-based inspections are subject to change in scope, as well as schedule, beginning in January 2020. Furthermore, all the inspections listed during the last twelve months of the inspection plan are tentative and may be revised. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

Additionally, Region I plans to conduct inspections in accordance with Inspection Procedure (IP) 60854.1, "Preoperational Testing of an Independent Spent Fuel Storage Facility Installations at Operating Plants," and IP 60855.1, "Operation of an ISFSI Independent Spent Fuel Storage Facility Installation at Operating Plants." Also during this period the NRC will schedule an additional inspection per a revised version of Temporary Instruction (TI) 2515/194, "Inspection

of the Licensee's Implementation of Industry Initiative Associated with the Open Phase Condition Design Vulnerability in Electrical Power Systems (NRC Bulletin 2012-01)" for any sites who elect to implement the guidance of the Industry Initiative on Open Phase Condition, Revision 3 (ML19163A176). Licensees will be individually notified when the NRC schedules these inspections.

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's Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC's Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 610-337-5120 with any questions you have regarding this letter.

Sincerely,

X /RA/

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Signed by: Erin E. Carfang

Erin Carfang, 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 Plan

SUBJECT: ANNUAL ASSESSMENT LETTER FOR THE NINE MILE POINT NUCLEAR STATION, UNITS 1 AND 2, (REPORTS 05000220/2019006 AND 05000410/2019006) DATED MARCH 3, 2020

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ADAMS ACCESSION NUMBER: ML20059L980

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OFFICE	R/DRP	R/DRP			
NAME	CLally	ECarfang			
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OFFICIAL RECORD COPY

# IP 22 Inspection Activity Plan Report

## Nine Mile Point

01/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>ISI - UNIT 2</b>						1
2	03/16/2020	03/20/2020	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
<b>Rad Safety Refuel</b>						1
1, 2	03/23/2020	03/27/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/23/2020	03/27/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	03/23/2020	03/27/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	03/23/2020	03/27/2020	IP 71124.04	000728	Occupational Dose Assessment	
<b>Annual Sample - MOV Hardened Grease</b>						1
1, 2	05/17/2020	05/23/2020	IP 71152	000748	Problem Identification and Resolution	
<b>Rad Safety RETS</b>						1
1, 2	05/18/2020	05/22/2020	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	05/18/2020	05/22/2020	IP 71151	000746	Performance Indicator Verification	
<b>Access Control, Equipment Testing and Maintenance, Training-NMP</b>						3
1, 2	06/01/2020	06/05/2020	IP 71130.02	000734	Access Control	
1, 2	06/01/2020	06/05/2020	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	06/01/2020	06/05/2020	IP 71130.07	000739	Security Training	
1, 2	06/01/2020	06/05/2020	IP 71151	001338	Performance Indicator Verification	
<b>Rad Safety Inspection</b>						1
1, 2	06/08/2020	06/12/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	06/08/2020	06/12/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	06/08/2020	06/12/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	06/08/2020	06/12/2020	IP 71124.04	000728	Occupational Dose Assessment	
<b>EP PROGRAM INSPECTION - NMP</b>						1
1, 2	07/13/2020	07/17/2020	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	07/13/2020	07/17/2020	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	07/13/2020	07/17/2020	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	07/13/2020	07/17/2020	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1, 2	07/13/2020	07/17/2020	IP 71151	001397	Performance Indicator Verification	

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

# IP 22 Inspection Activity Plan Report

## Nine Mile Point

01/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>Radwaste</b>						1
1, 2	08/03/2020	08/07/2020	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
<b>Rad Safety Instruments</b>						1
1, 2	10/05/2020	10/09/2020	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	10/05/2020	10/09/2020	IP 71151	000746	Performance Indicator Verification	
<b>FORCE-ON-FORCE PLANNING AND EXERCISE WEEKS - NMP</b>						6
1, 2	10/05/2020	10/09/2020	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1, 2	10/26/2020	10/30/2020	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
<b>Design Basis Assurance Inspection – Teams – Nine Mile Point Units 1 and 2</b>						7
1, 2	10/19/2020	10/23/2020	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
1, 2	11/02/2020	11/06/2020	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
<b>FY21 NMP1 Initial Exam</b>						4
1	11/01/2020	11/07/2020	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	11/29/2020	12/12/2020	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>NMP1 Requal Inspecton with P/F Results</b>						2
1	11/15/2020	11/21/2020	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance	
1	11/15/2020	11/21/2020	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
<b>FY21 Nine Mile Point Unit 2 Initial Examination</b>						4
2	03/14/2021	03/20/2021	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
2	04/11/2021	04/24/2021	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>INSERVICE INSPECTION</b>						1
1	03/28/2021	04/03/2021	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
<b>Rad Safety Inspection</b>						1
1, 2	03/29/2021	04/02/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/29/2021	04/02/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	03/29/2021	04/02/2021	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	03/29/2021	04/02/2021	IP 71124.04	000728	Occupational Dose Assessment	

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## Nine Mile Point

01/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>Access Control, Protective Strategy, TSR</b>						4
1, 2	05/24/2021	05/28/2021	IP 71130.02	000734	Access Control	
1, 2	05/24/2021	05/28/2021	IP 71130.05	000737	Protective Strategy Evaluation	
1, 2	05/24/2021	05/28/2021	IP 71130.14	000743	Review of Power Reactor Target Sets	
1, 2	05/24/2021	05/28/2021	IP 71151	001338	Performance Indicator Verification	
<b>MATERIAL CONTROL AND ACCOUNTABILITY</b>						1
1, 2	06/06/2021	06/12/2021	IP 71130.11	000742	Material Control and Accounting (MC&A)	
<b>Rad Safety Inspection</b>						1
1, 2	06/07/2021	06/11/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	06/07/2021	06/11/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	06/07/2021	06/11/2021	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	06/07/2021	06/11/2021	IP 71124.04	000728	Occupational Dose Assessment	
<b>ISFSI Dry Run &amp; Operational Inspection - NMP</b>						3
1, 2	07/05/2021	07/09/2021	IP 60854.1	000589	Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants	
1, 2	07/19/2021	07/23/2021	IP 60854.1	000589	Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants	
1, 2	07/26/2021	07/30/2021	IP 60855.1	000590	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
<b>TRIENNIAL FIRE PROTECTION</b>						3
1, 2	07/26/2021	07/30/2021	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
1, 2	08/09/2021	08/13/2021	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
<b>Rad Safety Inspection</b>						1
1, 2	08/09/2021	08/13/2021	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1, 2	08/09/2021	08/13/2021	IP 71151	000746	Performance Indicator Verification	
<b>Rad Safety Inspection</b>						1
1, 2	09/27/2021	10/01/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	09/27/2021	10/01/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	09/27/2021	10/01/2021	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	09/27/2021	10/01/2021	IP 71124.04	000728	Occupational Dose Assessment	

# IP 22 Inspection Activity Plan Report

## Nine Mile Point

01/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>EP Exercise Inspection - Nine Mile Point</b>						5
1, 2	10/04/2021	10/08/2021	IP 71114.01	000716	Exercise Evaluation	
1, 2	10/04/2021	10/08/2021	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	10/04/2021	10/08/2021	IP 71151	001397	Performance Indicator Verification	
<b>PI&amp;R BIENNIAL - NMP</b>						4
1, 2	10/18/2021	10/22/2021	IP 71152B	000747	Problem Identification and Resolution	
1, 2	11/01/2021	11/05/2021	IP 71152B	000747	Problem Identification and Resolution	
<b>NMP2 Requal Inspection with P/F Results</b>						2
2	10/25/2021	10/29/2021	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance	
2	10/25/2021	10/29/2021	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
<b>Rad Safety Inspection</b>						1
1, 2	11/15/2021	11/19/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	11/15/2021	11/19/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	11/15/2021	11/19/2021	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	11/15/2021	11/19/2021	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	11/15/2021	11/19/2021	IP 71151	000746	Performance Indicator Verification	