



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

March 2, 2016

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

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR THREE MILE ISLAND NUCLEAR  
STATION, UNIT 1 (REPORT 05000289/2015006)**

Dear Mr. Hanson:

On February 9, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of Three Mile Island Nuclear Station, Unit 1. 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, Three Mile Island Nuclear Station, Unit 1 operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Three Mile Island Nuclear Station, Unit 1 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 December 31, 2017. Routine inspections performed by resident inspectors are not included in the inspection plan. In addition to baseline inspection, the NRC will perform TI 2515-191, "Inspection of Implementation of Mitigation 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." 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 August 10 -14, 2015, for Three Mile Island Nuclear Station, Unit 1, 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 (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).

Please contact me at (610) 337-5046 with any questions you have regarding this letter.

Sincerely,

*/RA/*

Silas R. Kennedy, Chief  
Projects Branch 6  
Division of Reactor Projects

Docket Nos.: 50-289  
License Nos.: DPR-50

Enclosure: Three Mile Island Nuclear Station  
Inspection/Activity Plan

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DATE	02/23 /16	02/23 /16	02/23/16		

**Three Mile Island**  
**Inspection / Activity Plan**  
**01/01/2016 - 12/31/2017**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>711117T - PERMANENT PLANT MODIFICATIONS</b>		<b>3</b>
1	01/25/2016	01/29/2016	IP 711117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
1	02/08/2016	02/12/2016	IP 711117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			<b>71124 - RAD SAFETY INSPECTION</b>		<b>1</b>
1	02/08/2016	02/12/2016	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	02/08/2016	02/12/2016	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			<b>EP PROG - EP PROGRAM INSPECTION</b>		<b>1</b>
1	02/22/2016	02/26/2016	IP 7111402	Alert and Notification System Testing	
1	02/22/2016	02/26/2016	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	02/22/2016	02/26/2016	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
			<b>71152BI - PI&amp;R BIENNIAL</b>		<b>7</b>
1	05/02/2016	05/06/2016	IP 71152B	Problem Identification and Resolution	
1	05/16/2016	05/20/2016	IP 71152B	Problem Identification and Resolution	
			<b>71124 - RAD SAFETY INSPECTION</b>		<b>1</b>
1	05/23/2016	05/27/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	05/23/2016	05/27/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1	05/23/2016	05/27/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	05/23/2016	05/27/2016	IP 71124.04	Occupational Dose Assessment	
			<b>711110T - TRIENNIAL HEAT SINK</b>		<b>1</b>
1	07/18/2016	07/22/2016	IP 7111107T	Heat Sink Performance	
			<b>71124 - RAD SAFETY INSPECTION</b>		<b>1</b>
1	08/08/2016	08/12/2016	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>TI-191 - FUKUSHIMA LESSONS-LEARNED</b>		<b>1</b>
1	08/15/2016	08/19/2016	IP 2515/191	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Request March 12, 2012	
			<b>71124 - RAD SAFETY INSPECTION</b>		<b>1</b>
1	11/14/2016	11/18/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	11/14/2016	11/18/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1	11/14/2016	11/18/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	11/14/2016	11/18/2016	IP 71124.04	Occupational Dose Assessment	
1	11/14/2016	11/18/2016	IP 71151-OR01	Occupational Exposure Control Effectiveness	
			<b>6/26EXAM - TMI INITIAL EXAM</b>		<b>4</b>
1	05/29/2017	06/02/2017	U01944	FY17-TMI INITIAL OPERATOR LICENSING EXAM	
1	06/26/2017	07/07/2017	U01944	FY17-TMI INITIAL OPERATOR LICENSING EXAM	

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

**Three Mile Island**  
**Inspection / Activity Plan**  
**01/01/2016 - 12/31/2017**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>7111105T - TRIENNIAL FIRE PROTECTION</b>		<b>4</b>
1	01/23/2017	01/27/2017	IP 7111105T	Fire Protection [Triennial]	
1	02/06/2017	02/10/2017	IP 7111105T	Fire Protection [Triennial]	
			<b>7111111B - TMI REQUAL INSP WITH P/F RESULTS</b>		<b>2</b>
1	03/13/2017	03/17/2017	IP 7111111B	Licensed Operator Requalification Program	
			<b>EP - EP EXERCISE EVALUATION</b>		<b>4</b>
1	04/10/2017	04/14/2017	IP 7111401	Exercise Evaluation	
1	04/10/2017	04/14/2017	IP 71151	Performance Indicator Verification	
			<b>71124 - HP INSPECTION</b>		<b>1</b>
1	05/08/2017	05/12/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1	05/08/2017	05/12/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	05/08/2017	05/12/2017	IP 71124.04	Occupational Dose Assessment	
1	05/08/2017	05/12/2017	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>71124 - REMP</b>		<b>1</b>
1	07/24/2017	07/28/2017	IP 71124.07	Radiological Environmental Monitoring Program	
1	07/24/2017	07/28/2017	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			<b>71124.08 - RADWASTE</b>		<b>1</b>
1	09/11/2017	09/15/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			<b>71124 - HP INSPECTION</b>		<b>1</b>
1	09/25/2017	09/29/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	09/25/2017	09/29/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1	09/25/2017	09/29/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	09/25/2017	09/29/2017	IP 71124.04	Occupational Dose Assessment	
			<b>7111108P - INSERVICE INSPECTION</b>		<b>1</b>
1	09/25/2017	10/06/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>71124 - HP INSPECTION</b>		<b>1</b>
1	11/13/2017	11/17/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	11/13/2017	11/17/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1	11/13/2017	11/17/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	11/13/2017	11/17/2017	IP 71124.04	Occupational Dose Assessment	
1	11/13/2017	11/17/2017	IP 71151-OR01	Occupational Exposure Control Effectiveness	

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