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

September 1, 2015

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

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR THREE MILE ISLAND NUCLEAR STATION, UNIT 1 (REPORT 05000289/2015005)

Dear Mr. Hanson:

On August 13, 2015, the U.S. Nuclear Regulatory Commission (NRC) completed its mid-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 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, 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 June 30, 2017. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle performance review. In addition to baseline inspections, the NRC will perform Temporary Instruction (TI) 2515-191, "Inspection of the Implementation of Mitigation 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," 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 on-site portion of the audit was completed at Three Mile Island 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 performing TI 191, “Inspection of the Implementation of Mitigation 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*, 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 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

cc w/encl: Distribution via ListServ

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☑ SUNSI Review		☑ Non-Sensitive ☐ Sensitive		☑ Publicly Available ☐ Non-Publicly Available	
OFFICE	RI/DRP	RI/DRP	RI/DRP		
NAME	DWerkheiser/ AVZ for via email	AZiedonis/ AVZ	SKennedy/ SRK		
DATE	08/26/15	08/25 /15	08/ 25 /15		

OFFICIAL RECORD COPY

Three Mile Island
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
			09/28EXM	**- INITIAL OL EXAM**	**4**
1	08/31/2015	09/04/2015	U01913	FY16-TMI INITIAL OPERATOR LICENSING EXAM	
1	09/28/2015	10/07/2015	U01913	FY16-TMI INITIAL OPERATOR LICENSING EXAM	
			71124.07	**- REMP INSPECTION**	**1**
1	07/06/2015	07/10/2015	IP 71124.07	Radiological Environmental Monitoring Program	
1	07/06/2015	07/10/2015	IP 71151	Performance Indicator Verification	
			71124	**- RAD SAFETY INSPECTION**	**1**
1	08/31/2015	09/04/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	08/31/2015	09/04/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1	08/31/2015	09/04/2015	IP 71124.04	Occupational Dose Assessment	
			71124.08	**- RADWASTE**	**1**
1	09/14/2015	09/18/2015	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			71124	**- RAD SAFETY INSPECTION**	**1**
1	11/02/2015	11/06/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	11/02/2015	11/06/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1	11/02/2015	11/06/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	11/02/2015	11/06/2015	IP 71124.04	Occupational Dose Assessment	
1	11/02/2015	11/06/2015	IP 71151	Performance Indicator Verification	
			7111108P	**- INSERVICE INSPECTION**	**2**
1	11/02/2015	11/13/2015	IP 7111108P	Inservice Inspection Activities - PWR	
			7111117T	**- PERMANENT PLANT MODIFICATIONS**	**3**
1	01/25/2016	01/29/2016	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
1	02/08/2016	02/12/2016	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			71124	**- RAD SAFETY INSPECTION**	**1**
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	
			EP PROG	**- EP PROGRAM INSPECTION**	**1**
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	
			71152BI	**- PI&R BIENNIAL**	**4**
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	

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
07/01/2015 - 06/30/2017

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			71124	**- RAD SAFETY INSPECTION**	**1**
1	05/16/2016	05/20/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	05/16/2016	05/20/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1	05/16/2016	05/20/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	05/16/2016	05/20/2016	IP 71124.04	Occupational Dose Assessment	
			711110T	**- TRIENNIAL HEAT SINK**	**1**
1	07/18/2016	07/22/2016	IP 7111107T	Heat Sink Performance	
			71124	**- RAD SAFETY INSPECTION**	**1**
1	08/08/2016	08/12/2016	IP 71124.05	Radiation Monitoring Instrumentation	
			TI-191	**- FUKUSHMIA LESSONS-LEARNED**	**1**
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	
			71124	**- RAD SAFETY INSPECTION**	**1**
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	
			6/26EXAM	**- TMI INITIAL EXAM**	**4**
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	
			7111105T	**- TRIENNIAL FIRE PROTECTION**	**5**
1	01/23/2017	01/27/2017	IP 7111105T	Fire Protection [Triennial]	
1	02/06/2017	02/10/2017	IP 7111105T	Fire Protection [Triennial]	
			7111111B	**- TMI REQUAL INSP WITH P/F RESULTS**	**2**
1	03/13/2017	03/17/2017	IP 7111111B	Licensed Operator Requalification Program	
			71124	**- HP INSPECTION**	**1**
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	

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