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
President and Chief Nuclear Officer, Exelon Nuclear
4300 Winfield Rd.
Warrenville, IL 60555

SUBJECT: ANNUAL ASSESSMENT LETTER FOR OYSTER CREEK NUCLEAR GENERATING STATION (REPORT 05000219/2015006)

Dear Mr. Hanson:

On February 9, 2016, the U. S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of Oyster Creek Nuclear Generating Station. 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, Oyster Creek Nuclear Generating Station operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Oyster Creek Nuclear Generating Station 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 accordance with Inspection Manual Chapter 0305, "Operating Reactor Assessment Program," Oyster Creek Nuclear Generating Station transitioned from the Regulatory Response Column to the Licensee Response Column of the ROP Action Matrix on November 5, 2015, following the successful completion of two supplemental inspections. Inspection Procedure (IP) 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area," was completed on September 4, 2015, to address a White finding in the Mitigating Systems cornerstone associated with an inadequate review of a change in a maintenance process that resulted in an inoperable emergency diesel generator (ADAMS Accession Number ML15288A480). A second IP 95001 inspection was completed on September 25, 2015, to address a White PI Action Matrix Input to the Initiating Event cornerstone for "Unplanned Scrams Per 7000 Critical Hours" (ML15309A393).

In addition, on December 17, 2015, the NRC completed IP 95002, "Supplemental Inspection for One Degraded Cornerstone or Any Three White Inputs in a Strategic performance Area," (ML15351A416) and closed out one Yellow finding associated with the inadequate application of materials, parts, equipment, and procedures associated with electromagnetic relief valves.

Because the finding was considered an old design issue in accordance with Inspection Manual Chapter 0305, it was not an input in the assessment process or an NRC Action Matrix Input.

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 (IP) 60855.1, "Operation of an ISFSI Independent Spent Fuel Storage Installation at Operating Plants." 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. This audit includes an onsite component in order for the NRC to evaluate licensee plans for complying with the Orders, as described in site-specific submittals, and to receive and review information relative to associated open items. This onsite activity will occur in the months prior to a declaration of compliance for the first unit at each site, and will aid staff in development of the Final Safety Evaluation for the site. The date for the onsite component at your site is being coordinated with your staff. A site-specific audit plan for the visit will be provided in advance to allow sufficient time for preparations. Following the audit, and 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 Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communications/ Staffing/Multi-Unit Dose Assessment Plans." As noted in the enclosure, this inspection has been scheduled for Oyster Creek Nuclear Generating Station.

During the assessment period, the NRC issued two Severity Level IV traditional enforcement violations to Oyster Creek Nuclear Generating Station. One traditional enforcement violation involved incomplete Title 10 of the *Code of Federal Regulations* (10 CFR) 50.72 and 50.73 reports associated with secondary containment integrity. The second traditional enforcement violation involved the use of an analytical method to determine core operating limits without prior NRC approval. In accordance with NRC Inspection Manual Chapter 0305, Section 13.02.b, the NRC will follow up on the first violation through a baseline inspection and the second through Inspection Procedure 92702, "Follow-up on Traditional Enforcement Actions Including Violations, Deviations, Confirmatory Action Letters, Confirmatory Orders, and Alternative Dispute Resolution Confirmatory Orders."

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 Silas Kennedy at (610) 337-5046 with any questions you have regarding this letter.

Sincerely,

/RA/

Michael L. Scott, Director
Division of Reactor Projects

Docket Nos. 50-219
License Nos. DPR-16

Enclosure: Oyster Creek Nuclear Generating 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	SShaffer/ SRK for *via email*	SKennedy /SRK	MScott/ MLS		
DATE	02/18 /16	02/18 /16	02/25 /16		

OFFICIAL RECORD COPY

Oyster Creek
Inspection / Activity Plan
01/01/2016 - 12/31/2017

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			EXM2/1	**- INITIAL OL EXAMINATION**	**4**
1	01/04/2016	01/08/2016	U01929	FY16-OC INITIAL OPERATOR LICENSING EXAM	
1	02/01/2016	02/12/2016	U01929	FY16-OC INITIAL OPERATOR LICENSING EXAM	
			71124.08	**- RADWASTE**	**1**
1	02/08/2016	02/12/2016	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			ISFSI	**- ISFSI LOADING CAMPAIGN INSPECTION**	**2**
1	04/25/2016	04/29/2016	IP 60855	Operation Of An ISFSI	
1	04/25/2016	04/29/2016	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			TI-190	**- FLOODING VULERNABLILTY TI-190**	**1**
1	05/02/2016	05/06/2016	IP 2515/190	Inspection of Interim Actions of Near-Term Task Force Recommendation 2.1 Flooding Reevaluations	
			7111121	**- CDBI**	**6**
1	06/13/2016	06/17/2016	IP 7111121	Component Design Bases Inspection	
1	06/27/2016	07/01/2016	IP 7111121	Component Design Bases Inspection	
1	07/11/2016	07/15/2016	IP 7111121	Component Design Bases Inspection	
			71124	**- 01 EXPOSURE CONTROL**	**1**
1	08/29/2016	09/01/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			71124	**- 02 ALARA**	**1**
1	08/29/2016	09/01/2016	IP 71124.02	Occupational ALARA Planning and Controls	
			7111108G	**- INSERVICE INSPECTION**	**1**
1	09/26/2016	09/30/2016	IP 7111108G	Inservice Inspection Activities - BWR	
			EP	**- EP PROGRAM INSPECTION**	**1**
1	09/26/2016	09/30/2016	IP 7111402	Alert and Notification System Testing	
1	09/26/2016	09/30/2016	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	09/26/2016	09/30/2016	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
			71124	**- 01EXPOCONTROL02 ALARA 03 AIRBORNE04 DOSE**	**1**
1	09/26/2016	09/30/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	09/26/2016	09/30/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1	09/26/2016	09/30/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	09/26/2016	09/30/2016	IP 71124.04	Occupational Dose Assessment	
			71152BI	**- PI&R BIENNIAL**	**6**
1	10/31/2016	11/04/2016	IP 71152B	Problem Identification and Resolution	
1	11/14/2016	11/18/2016	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.

Oyster Creek
Inspection / Activity Plan
01/01/2016 - 12/31/2017

Unit Number	Planned Dates Start	End	Inspection Activity	Title	No. of Staff on Site
			71124	**- 71151 PI VERIFY 71124.01 .02 .03 .04**	**1**
1	11/07/2016	11/11/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	11/07/2016	11/11/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1	11/07/2016	11/11/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	11/07/2016	11/11/2016	IP 71124.04	Occupational Dose Assessment	
1	11/07/2016	11/11/2016	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	11/07/2016	11/11/2016	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			71124	**- 71124.01 RAD EXPOSURE CONTROL**	**1**
1	03/06/2017	03/09/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			7111105T	**- TRIENNIAL FIRE PROTECTION**	**4**
1	03/20/2017	03/24/2017	IP 7111105T	Fire Protection [Triennial]	
1	04/03/2017	04/07/2017	IP 7111105T	Fire Protection [Triennial]	
			7111111B	**- OYSTER CREEK REQUAL INSP W/ P/F RESULTS**	**2**
1	06/05/2017	06/09/2017	IP 7111111B	Licensed Operator Requalification Program	
			71124	**- RAD ENV TEAM INSPECT 71124.05 06 07**	**3**
1	06/19/2017	06/23/2017	IP 71124.05	Radiation Monitoring Instrumentation	
1	06/19/2017	06/23/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	06/19/2017	06/23/2017	IP 71124.07	Radiological Environmental Monitoring Program	
			TI-191	**- FUKUSHIMA LESSONS-LEARNED**	**1**
1	08/21/2017	08/25/2017	IP 2515/191	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Request March 12, 2012	
			EP	**- EP EXERCISE EVALUATION**	**4**
1	09/25/2017	09/29/2017	IP 7111401	Exercise Evaluation	
1	09/25/2017	09/29/2017	IP 71151	Performance Indicator Verification	
			71124	**- 71151PI VERIFY71124.01RADEXP 05 RAD MONT**	**1**
1	11/06/2017	11/09/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	11/06/2017	11/09/2017	IP 71124.05	Radiation Monitoring Instrumentation	
1	11/06/2017	11/09/2017	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	11/06/2017	11/09/2017	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	

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