



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

April 15, 2019

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

**SUBJECT: NRC INSPECTION REPORT NO. 05000219/2019001, OYSTER CREEK
NUCLEAR GENERATING STATION**

Dear Mr. Hanson:

On March 31, 2019, the U.S. Nuclear Regulatory Commission (NRC) completed its quarterly inspection under Inspection Manual Chapter 2561, "Decommissioning Power Reactor Inspection Program," at the permanently shut down Oyster Creek Nuclear Generating Station (Oyster Creek). On-site inspections were performed on January 28 – 31, March 7, and March 26. In-office reviews of information supplied by Exelon Generation Co., LLC were also performed during the inspection period. The inspection examined activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and the conditions of your license. The inspection consisted of observations by the inspectors, interviews with personnel, and a review of procedures and records. The results of this inspection were discussed with Mr. Jeff Dostal, Plant Manager, and other members of your staff on April 4, 2019, and are described in the enclosed report. No findings of safety significance were identified.

In accordance with 10 Code of Federal Regulations (CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure, and your response (if any) will be made available electronically for public inspection in the NRC Public Document Room or from the NRC document system (ADAMS), accessible from the NRC website at <http://www.nrc.gov/reading-rm/adams.html>. To the extent possible, your response should not include any personal privacy, proprietary, or safeguards information so that it can be made available to the Public without redaction.

Current NRC regulations and guidance are included on the NRC's website at www.nrc.gov; select **Radioactive Waste; Decommissioning of Nuclear Facilities**; then **Regulations, Guidance and Communications**. The current Enforcement Policy is included on the NRC's website at www.nrc.gov; select **About NRC, Organizations & Functions; Office of Enforcement; Enforcement documents**; then **Enforcement Policy** (Under 'Related Information'). You may also obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-866-512-1800. The GPO is open from 8:00 a.m. to 5:30 p.m. EST, Monday through Friday (except Federal holidays).

B. Hanson

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No reply to this letter is required. Please contact Briana DeBoer at 610-337-5370 if you have any questions regarding this matter.

Sincerely,

/RA/

Raymond J. Powell, Chief
Decommissioning, ISFSI, and Reactor Health
Physics Branch
Division of Nuclear Materials Safety

Docket No: 50-219
License No: DPR-16

Enclosure:
Inspection Report 05000219/2019001
w/Attachment

cc w/encl: Distribution via ListServ

NRC INSPECTION REPORT NO. 05000219/2019001, OYSTER CREEK NUCLEAR GENERATING STATION DATED April 15, 2019

DOCUMENT NAME: \\nrc.gov\nrc\R1\Office\DNMS\DIRHP\Decom Reactor Sites\Oyster Creek\Inspection Reports\OC_1Q2019_IR.docx

SUNSI Review Complete: BDeBoer 4/4/19

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OFFICE	DNMS/RI	DNMS/RI				
NAME	BDeBoer/bd	RPowell/rp				
DATE	4/9/19	4/15/19				

U.S. NUCLEAR REGULATORY COMMISSION

REGION I

Docket No: 050-00219

License No: DPR-16

Report No: 05000219/2019001

Licensee: Exelon Nuclear

Facility: Oyster Creek Nuclear Generating Station

Location: Forked River, New Jersey

Dates: January 1, 2019 - March 31, 2019

Inspector: B. DeBoer, Health Physicist

Approved by: Raymond Powell, Chief
Decommissioning, ISFSI, and Reactor Health Physics
Branch
Division of Nuclear Materials Safety, Region I

Enclosure

EXECUTIVE SUMMARY

Exelon Generation Co., LLC
Oyster Creek Nuclear Generating Station
NRC Inspection Report No. 05000219/2019001

An announced quarterly inspection was completed at Oyster Creek Nuclear Generating Station (Oyster Creek) on March 31, 2019. On-site inspections and in-office reviews of information supplied by Exelon were performed during the inspection period from January 1 to March 31. The inspection included a review of organization and management at the site; safety reviews, design changes and modifications; self-assessments, audits and corrective actions; and decommissioning performance and surveillance.

The inspection consisted of observations by the inspector, interviews with Exelon personnel, a review of procedures and records, and plant walk-downs. The U.S. Nuclear Regulatory Commission's (NRC's) program for overseeing the safe operation of a shut-down nuclear power reactor is described in Inspection Manual Chapter (IMC) 2561, "Decommissioning Power Reactor Inspection Program."

Based on the results of this inspection, no findings of safety significance were identified.

REPORT DETAILS

1.0 Background

On September 25, 2018, Oyster Creek certified the permanent removal of fuel from the reactor vessel (Agencywide Documents and Access Management System (ADAMS) Accession No. ML18268A258). This met the requirements of 10 Code of Federal Regulations (CFR) 50.82(a)(1)(i) and 50.82(a)(1)(ii). On October 1, 2018, the NRC notified Oyster Creek that the Operating Reactor Assessment Program had ceased and that implementation of the Decommissioning Power Reactor Inspection Program would begin on October 1, 2018 (ADAMS Accession No. ML18274A221). Oyster Creek is currently in the "Post Operation Transition Phase" of decommissioning as described in IMC 2561.

2.0 Post Operation Transition Phase Performance and Status Review

a. Inspection Scope [Inspection Procedures 36801, 37801, 40801, 71801]

The inspector performed on-site inspections on January 28-30, March 7, and March 26. In-office reviews of information supplied by Exelon were also performed during the inspection period. The inspection consisted of observations by the inspector, interviews with Exelon personnel, a review of procedures and records, and plant walk-downs.

The inspector reviewed procedures and processes to evaluate Exelon's ability to resolve employee safety concerns, disseminate safety information and effectively resolve identified problems. The inspector reviewed Exelon's decommissioning activities to verify they were performed in a manner consistent with the Post-Shutdown Decommissioning Activities Report (PSDAR). The inspector observed licensee meetings that planned, reviewed, assessed and scheduled the conduct of facility decommissioning. The inspector performed plant tours to assess field conditions and decommissioning abandonment activities.

The inspector conducted document reviews and interviews with plant personnel to verify Exelon procedures and processes followed the regulations and guidance associated with 10 CFR 50.59. The inspector reviewed the modifications to the radwaste system to allow for overboard discharge of radioactive liquid while ensuring compliance with radioactive effluent discharge regulations. The inspector reviewed the engineering change package, condition reports, and plant drawings to determine if the modification would meet the requirements of the technical specifications, Offsite Dose Calculation Manual (ODCM), and plant procedures. The inspector also reviewed discharge release permits and meeting minutes for the last Safety Review Committee meeting.

The inspector reviewed documents and interviewed Oyster Creek personnel to verify Exelon management performed audits and self-assessments, and ensured issues were identified and corrected in accordance with the site's corrective action program (CAP). The inspector reviewed a representative selection of CAP documents to determine if a sufficiently low threshold for problem identification existed, follow-up evaluations were of sufficient quality, and Exelon assigned timely and appropriate prioritization for issue resolution commensurate with the significance of the issue.

b. Observations

The inspector verified that management oversight was adequate for the post-operation transition phase of decommissioning and that no significant changes had been made to the Oyster Creek decommissioning organization since the previous inspection. The inspector determined that the employee concerns program was appropriately implemented. The inspector noted that site decommissioning activities were in accordance with the PSDAR.

The inspector determined that 10 CFR 50.59 screenings and evaluations are being performed and that Exelon has trained and qualified individuals to perform the evaluations. The inspector determined that changes under 10 CFR 50.59 did not require prior NRC approval and safety reviews were performed for design changes and modifications. The inspector verified the overboard discharge modification was complete and reviewed the release permits to ensure compliance with the Technical Specification and ODCM. The inspector also verified that the engineering change was performed in accordance with site procedures and safety reviews had been performed adequately.

The inspector determined that issues were being identified and entered into the CAP and evaluated commensurate with their safety significance.

c. Conclusions

Based on the results of this inspection, no findings of safety significance were identified.

3.0 Exit Meeting

On April 4, 2019, the inspector presented the inspection results to Mr. Jeff Dostal, Plant Manager, and other members of the Exelon staff who acknowledged the inspection results. The inspectors verified that no proprietary information was retained by the inspectors or documented in this report.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Oyster Creek Personnel

M. Caldeira, Engineer 3
R. Csillag, Site DC Engineering Lead
J. Dostal, Site Decommissioning Director
J. Frank, Site DC Regulatory Assurance Lead
D. Helker, Corporate Licensing
A. Krukowski, Site DO Operations Lead
J. McCarthy, Radiation Protection Decommissioning Specialist
M. Sullivan, Work Manager
K. Wolf, Site DC Manager Radiation Protection and Chemistry
K. Zadroga, Radiation Protection Supervisor

ITEMS OPENED, CLOSED, AND DISCUSSED

None

LIST OF DOCUMENTS REVIEWED

Procedures

CY-OC-120-7004, Radwaste System: Liquid Analysis and Disposition, Revision 7
DC-AA-410, Decommissioning Configuration Change Control for Physical Plant Changes, Revision 1
DC-AA_420, Abandoned Equipment during Decommissioning, Revision 0
EI-AA-101, Employee Concerns Program, Revision 11
EI-AA-101-1001, Employee Concerns Program Process, Revision 15
LS-DC-106, Safety Review Committee, Revision 0
PI-DC-125, Decommissioning Corrective Action Program Procedure, Revision 1
PI-DC-120, Decommissioning Issue Identification and Screening Procedure, Revision 1
RAP-RB1C (2-1), HP-T-2A HP Waste Sample Tank Low Level, Revision 3
RAP-RB1C (2-2), HP-T-2B HP Waste Sample Tank Low Level, Revision 3
351.2, High Purity Waste System, Revision 90

Condition Reports

4214890 4214973 4215215 4221090

Drawings

GE 148F437, Liquid Radioactive Water Collection & Processing, Sheet 3, Revision 46
GE 148F437, Liquid Radioactive Water Collection & Processing, Sheet 3, Revision 47

Miscellaneous

EC 625226, Modification of High Purity System to Allow Overboard Discharge using the Roof Drain System Via the 30" Overboard Line, Revision 3
OCR-19-1, Oyster Creek Release Permit, dated February 12, 2019
OCR-19-4, Oyster Creek Release Permit, dated February 20, 2019
OCR-19-8, Oyster Creek Release Permit, dated March 4, 2019
OCR-19-9, Oyster Creek Release Permit, dated March 6, 2019
Oyster Creek Decommissioning Status Meeting, dated March 26, 2019
Oyster Creek Station Off-Hours Drive-In Augmentation Drill Report (2018-11), dated December 18, 2018
Safety Review Committee Meeting Minutes, dated January 29, 2019

LIST OF ACRONYMS USED

ADAMS	Agencywide Document Access and Management System
CAP	Corrective Action Program
CFR	Code of Federal Regulations
Exelon	Exelon Generation Co., LLC
GPO	Government Printing Office
IMC	Inspection Manual Chapter
NRC	U.S. Nuclear Regulatory Commission
ODCM	Offsite Dose Calculation Manual
Oyster Creek	Oyster Creek Nuclear Generating Station
PARS	Publicly Available Records System
PSDAR	Post Shutdown Decommissioning Activities Report