



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

June 26, 2018

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

**SUBJECT: OYSTER CREEK NUCLEAR GENERATING STATION BIENNIAL
PROBLEM IDENTIFICATION AND RESOLUTION INSPECTION REPORT
05000219/2018011**

Dear Mr. Hanson:

On June 14, 2018, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Oyster Creek Nuclear Generating Station (Oyster Creek). The team discussed the results of this inspection with Mr. Michael Gillin, Plant Manager, and other members of the Oyster Creek staff. The results of this inspection are documented in the enclosed report.

The team reviewed the station's corrective action program and the station's implementation of the program to evaluate its effectiveness in identifying, prioritizing, evaluating, and correcting problems, and to confirm that the station was complying with NRC regulations and licensee standards for corrective action programs. Based on the samples reviewed, the team determined that your staff's performance in each of these areas supported nuclear safety.

The team also evaluated the station's effectiveness of the station's audits and self-assessments. Based on the samples reviewed, the team determined that your staff's performance in this area supported nuclear safety.

Finally, the team reviewed the station's programs to establish and maintain a safety-conscious work environment, and interviewed station personnel to evaluate the effectiveness of these programs. Based on the team's observations and the results of these interviews, the team found no evidence of challenges to your organization's safety conscious work environment. Your employees appeared willing to raise nuclear safety concerns through at least one of the several means available.

B. Hanson

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This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and the NRC's Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* (10 CFR), Part 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

/RA/

Matthew R. Young, Chief
Reactor Projects Branch 6
Division of Reactor Projects

Docket Number: 50-219
License Number: DPR-16

Enclosure:
Inspection Report 05000219/2018011

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SUBJECT: OYSTER CREEK NUCLEAR GENERATING STATION BIENNIAL
 PROBLEM IDENTIFICATION AND RESOLUTION INSPECTION REPORT
 05000219/2018011 DATED JUNE 26, 2018

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**U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report**

Docket Number: 50-219

License Number: DPR-16

Report Number: 05000219/2018011

Enterprise Identifier: I-2018-011-0031

Licensee: Exelon Generation Company, LLC (Exelon)

Facility: Oyster Creek Nuclear Generating Station (Oyster Creek)

Location: Forked River, NJ

Dates: June 11 to June 14, 2018

Inspectors: S. Shaffer, Senior Project Engineer
M. Henrion, Project Engineer
E. Andrews, Project Engineer

Approved By: M. R. Young, Chief
Reactor Projects Branch 6
Division of Reactor Projects

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring Exelon's performance at Oyster Creek by conducting the biennial problem identification and resolution inspection in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

Based on the samples selected for review, the team concluded that Exelon was effective in identifying, evaluating, and resolving problems and that Exelon effectively used self-assessments and audits. The team found no evidence of challenges to Exelon's safety conscious work environment at Oyster Creek and concluded that the staff are willing to raise nuclear safety concerns through at least one of the several means available.

No NRC identified or self-revealed findings were identified during this inspection.

INSPECTION SCOPES

This inspection was conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at

<http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>.

Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase." The team reviewed selected procedures and records, observed activities, and interviewed personnel to assess Exelon's performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

OTHER ACTIVITIES – BASELINE

71152 - Problem Identification and Resolution

Biennial Team Inspection (1 Partial Sample)

The team performed a biennial assessment of the licensee's corrective action program, use of self-assessments and audits, and safety conscious work environment. The assessment is documented below.

- (1) Corrective Action Program Effectiveness – The team evaluated Exelon's effectiveness in identification, prioritization and evaluation, and correcting problems, and verified the station complied with NRC regulations and Exelon's standards for corrective action programs.
- (2) Self-Assessments and Audits – The team evaluated the effectiveness of Exelon's audits and self-assessments.
- (3) Safety Conscious Work Environment – The team reviewed Exelon's programs to establish and maintain a safety-conscious work environment, and interviewed station personnel to evaluate the effectiveness of these programs.

Due to the pending permanent plant shutdown as documented in Exelon's February 14, 2018 letter (ML18045A084) to the NRC, a modified biennial team inspection was conducted. In accordance with IMC 2515, "Light-Water Reactor Inspection Program – Operations Phase," the scope of the inspection was adjusted to assess Exelon's use of their corrective action program, self-assessments and audits, and safety conscious work environment programs during current operations and as they prepare for permanent shutdown. The operations, engineering, and maintenance organizations within Oyster Creek were evaluated. Since not all parts of the inspection procedure were completed in its entirety, this is being treated as a partial sample towards reactor oversight program completion.

INSPECTION RESULTS

Observations: Evaluation of the Oyster Creek PI&R Program	71152B
<p>The team reviewed the station's corrective action program and the station's implementation of the program to evaluate its effectiveness in identifying, prioritizing, evaluating, and correcting problems, and to confirm that the station was complying with NRC regulations and licensee standards for corrective action programs. Based on the samples reviewed, the team determined Exelon staff's performance in each of these areas supported nuclear safety.</p> <p>The team also evaluated the effectiveness of the station's audits and self-assessments. Based on the samples reviewed, the team determined that the staff's performance in this area supported nuclear safety.</p> <p>Finally, the team reviewed the station's programs to establish and maintain a safety conscious work environment, and interviewed station personnel to evaluate the effectiveness of these programs. Based on the team's observations and the results of these interviews the team found no evidence of challenges to the organization's safety conscious work environment. Employees appeared willing to raise nuclear safety concerns through at least one of the several means available.</p>	

EXIT MEETINGS AND DEBRIEFS

On June 14, 2018, the team presented the biennial problem identification and resolution inspection results to Mr. Michael Gillin, Plant Manager, and other members of the Oyster Creek staff. Inspectors verified no proprietary information was retained or documented in this report.

DOCUMENTS REVIEWED**71152B**Procedures

202.1, Power Operations, Revision 157
 350.1, Augmented Offgas System Operation, Revision 104
 636.2.006, Diesel Generator 1 Quarterly Battery Surveillance, Revision 25
 636.2.008, Diesel Generator 2 Quarterly Battery Surveillance, Revision 2
 ABN-1, Reactor Scram, Revision 18
 ABN-11, AOG Building Trip/Loss of Power, Revision 11
 ABN-45, Loss of USS 1A1, Revision 6
 ABN-48, Loss of USS 1B1, Revision 7
 HU-AA-101, Human Performance Tools and Verification Practices, Revision 9
 IT-AA-235-1000, Sanitization and Disposal of Critical Digital Asset (CDA) Media per Requirements of 10 CFR 73.54, Revision 4
 MA-AA-716-235, Control of Critical Digital Asset (CDA) Portable Media and Portable Devices, Revision 7
 NF-OC-721, Control Rod Sequences and Forms, Revision 2
 PI-AA-120, Issue Identification and Screening Process, Revision 8
 PI-AA-125, Corrective Action Program (CAP) Procedure, Revision 6
 PI-AA-125-1001, Root Cause Analysis Manual, Revision 3
 PI-AA-125-1003, Corrective Action Program Evaluation Manual, Revision 4
 PI-AA-125-1004, Effectiveness Review Manual, Revision 2
 PI-AA-125-1006, Investigation Techniques Manual, Revision 3
 PI-AA-126, Self-Assessment and Benchmark Program, Revision 2
 PI-AA-126-1001, Self-Assessments, Revision 2
 PI-AA-126-1005, Check-In Self-Assessments, Revision 1

Issue Reports

1518353	3958617	4036350
2438543	3958633	4041139
2441664	3960358	4042832
2441668	3963724	4047178
2446799	3964958	4065193
2610027	3990799	4078761
2623460	3993499	4088161
2636995	3999576	4102028
2637004	4015003	4104381
2637024	4021504	4106609
2663436	4028402	4111800
2664038	4028500	4113080
2674136	4028528	4113164
2695253	4030325	4116668
2708911	4030554	4121513
2723135	4030761	4122307
2734975	4030941	4146066
2739988	4036338	
3956325	4036348	

Self-Assessment and Audits

NOSA-OYS-16-05 Engineering Programs and Station Blackout Audit Report dated
May 11, 2016

NOSA-OYS-16-06 Fire Protection Audit Report dated November 9, 2016

NOSA-OYS-17-05 Engineering Design Control Audit Report dated July 19, 2017

NOSA-OYS-17-08, Operations Functional Area Audit Report

Maintenance Functional Area Audit Report NOSA-OYS-18-01, 1st Quarter 2018

Quarterly Performance Assessment Report, 2nd Quarter 2016

Quarterly Performance Assessment Report, 4th Quarter 2016

2701906, Operational Focus Area

3966717, Contracted Services (Vendor Oversight) & Control of Supplemental Work Force

Non-Cited Violations (NCVs) and Findings (FIN):

05000219/2017002-01, Inadequate Assessment of Degraded Fuel Oil Filter Impact to
Emergency Diesel Generator Operability

05000219/2017404-01, Failure to Implement Cyber Security Corrective Actions for Portable
Media

NCV 05000219/2017003-01, Inadequate Augmented Offgas System Procedure Resulted in a
Manual Scram