



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

January 26, 2021

Mr. Kelly Trice  
President  
Holtec Decommissioning International, LLC  
Krishna P. Singh Technology Campus  
1 Holtec Boulevard  
Camden, NJ 08104

**SUBJECT: HOLTEC DECOMMISSIONING INTERNATIONAL, LLC, OYSTER CREEK  
NUCLEAR GENERATING STATION – NRC INSPECTION REPORT NO.  
05000219/2021004**

Dear Mr. Trice:

On December 31, 2021, the U.S. Nuclear Regulatory Commission (NRC) completed an 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 November 8-9, 2021 and December 13-15, 2021. Additional inspection activities (in office reviews) were conducted remotely as a consequence of the COVID-19 public health emergency (PHE) 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 plant walk-downs by the inspectors, interviews with site personnel, and a review of procedures and records. The results of this inspection were discussed with Ms. Jean Fleming, Holtec Decommissioning International, LLC (HDI) Vice President Regulatory and Environmental Affairs, and other members of the Oyster Creek staff on January 10, 2022 and are described in the enclosed report.

Within the scope of this inspection, no violations 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](http://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](http://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).

No reply to this letter is required. Please contact Elizabeth Andrews at 610-337-5117 if you have any questions regarding this matter.

Sincerely,

Anthony Dimitriadis, Chief  
Decommissioning, ISFSI, and Reactor Health  
Physics Branch  
Division of Radiological Safety and Security

Docket No: 05000219

License No: DPR-16

Enclosure: Inspection Report 05000219/2021004  
w/Attachment

cc w/encl: Distribution via ListServ

HOLTEC DECOMMISSIONING INTERNATIONAL, LLC, OYSTER CREEK NUCLEAR GENERATING STATION, NRC INSPECTION REPORT NO. 05000219/2021004, DATED JANUARY 26, 2022.

DOCUMENT NAME: [https://usnrc.sharepoint.com/teams/Region-I-Decommissioning-Branch/Files/Decommissioning/Oyster Creek/Inspection Reports/2021/OC\\_4Q2021\\_IR.docx](https://usnrc.sharepoint.com/teams/Region-I-Decommissioning-Branch/Files/Decommissioning/Oyster%20Creek/Inspection%20Reports/2021/OC_4Q2021_IR.docx)

**SUNSI Review Complete:** EAndrews

**ML22025A230**

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OFFICE	DRSS/RI	N	DRSS/RI	N				
NAME	E.Andrews/ea		A.Dimitriadis/ad					
DATE	1/10/22		1/26/22					

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U.S. NUCLEAR REGULATORY COMMISSION

REGION I

Docket No: 050-00219

License No: DPR-16

Report No: 05000219/2021004

Licensee: Holtec Decommissioning International, LLC

Facility: Oyster Creek Nuclear Generating Station

Location: Forked River, New Jersey

Dates: October 1, 2021 – December 31, 2021

Inspectors: E. Andrews, Health Physicist  
B. DeBoer, Health Physicist

Approved by: Anthony Dimitriadis, Chief  
Decommissioning, ISFSI and Reactor Health Physics Branch  
Division of Radiological Safety and Security

Enclosure

## EXECUTIVE SUMMARY

Holtec Decommissioning International, LLC  
Oyster Creek Nuclear Generating Station  
NRC Inspection Report No. 05000219/2021004

An announced decommissioning inspection was completed at Oyster Creek Nuclear Generating Station (Oyster Creek) on December 31, 2021. Additional inspection activities were conducted remotely during the inspection period as a consequence of the COVID-19 public health emergency (PHE). The inspection included a review of problem identification and resolution at permanently shutdown reactors; decommissioning performance and status reviews; and solid radioactive waste management and transportation of radioactive materials. The inspection consisted of observations by the inspectors, interviews with site 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 decommissioning 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 violations were identified.

## REPORT DETAILS

### 1.0 Background

On September 25, 2018, Oyster Creek certified the permanent removal of fuel from the reactor vessel [Agencywide Document Access and 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). On July 1, 2019, an amended license was issued transferring the license from Exelon Generation Co., LLC to Holtec Decommissioning International, LLC (ADAMS Accession No. ML19164A157). Oyster Creek is currently in the "Actively Decommissioning, No Fuel in the Spent Fuel Pool" phase of decommissioning as described in IMC 2561.

### 2.0 Active Decommissioning Performance and Status Review

#### 2.1 Inspection Procedures 40801, 71801, 86750

##### a. Inspection Scope

In-office reviews of information supplied by Oyster Creek were performed during the inspection period. The inspectors performed on-site inspections on November 8-9, 2021, and December 13-15, 2021. The inspection consisted of observations by the inspectors, interviews with site personnel, a review of procedures and records, and plant walk-downs.

The inspectors reviewed documents and interviewed site personnel to determine if HDI performed audits and self-assessments and ensured issues were identified and corrected in accordance with the site's corrective action program (CAP). The inspectors 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 HDI assigned timely and appropriate prioritization for issue resolution commensurate with the significance of the issue.

The inspectors reviewed the status of activities related to the site decommissioning to determine if activities were in accordance with licensed requirements. The inspectors observed a sample of ongoing decommissioning activities, including the clean-up following demolition of the security administration building and preparations for cutting the control rod drive guide tubes. The inspectors reviewed the decommissioning schedule to determine if the schedule was consistent with the post shutdown decommissioning activities report (PSDAR).

The inspectors observed activities, interviewed personnel, performed walkdowns, and reviewed documentation to verify the effectiveness of the licensee's programs for the handling, storage, and transportation of licensed radioactive material (radioactive waste). The inspectors reviewed documentation, logs, and records, and toured radioactive waste areas to assess the storage of radioactive waste. The review included records of the shipment packaging, surveying, labeling, marking, placarding, vehicle checks, and emergency instructions to ensure compliance with the applicable NRC and Department

of Transportation regulations. The inspectors also reviewed the work packages for five recent radioactive waste shipments and observed two shipments of DOT exempt quantity material leave the site.

b. Observations and Findings

The inspectors determined that issues had been identified and entered into the CAP in a timely manner, and the issues were effectively screened, prioritized, and evaluated commensurate with their safety significance. The inspectors verified that audits and self-assessments were performed by qualified individuals, and management reviewed the audits and associated corrective actions.

The inspectors noted the next main decommissioning activities include building demolition and reactor segmentation, which were in progress at the time of the exit meeting of this inspection period. The inspectors determined the activities were performed safely and in accordance with work plans. The inspectors verified the activities and schedule were consistent with the September 18, 2018, notification by HDI revising the PSDAR for Oyster Creek.

The inspectors verified solid radioactive waste was adequately stored, monitored, and that inventories were up to date. The inspectors verified that radioactive waste shipping paperwork was properly completed, and Oyster Creek personnel were knowledgeable of their duties and responsibilities. The inspectors determined radioactive waste shipped for disposal at land disposal facilities was properly classified, described, packaged, marked, and labeled, and was in proper condition for transportation.

c. Conclusions

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

**3.0 Exit Meeting**

On January 10, 2022, the inspectors presented the inspection results to Ms. Jean Fleming, HDI Vice President Regulatory and Environmental Affairs, and other members of the Oyster Creek staff who acknowledged the inspection results. 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

K. Trice, HDI Senior Vice President and Chief Operating Officer  
J. Fleming, HDI Vice President Regulatory and Environmental Affairs  
A. Sterdis, HDI Vice President Regulatory and Environmental Affairs  
J. Dostal, HDI Oyster Creek Site Vice President  
L. Berlinski, Oversight Assessor  
A. Farenga, Senior Radiation Protection Specialist  
R. Fitts, Corrective Action Process Manager  
C. Gans, Radiation Engineer  
M. Hassler, Decommissioning Manager  
S. Johnson, Site Licensing Manager  
K. Leonard, Waste Removal Manager  
J. Sisak, Decommissioning Facility Manager  
H. Tritt, Site Engineering Manager  
K. Wolf, Radiation Protection, Chemistry, and Environmental Manager

ITEMS OPENED, CLOSED, AND DISCUSSED

None

LIST OF DOCUMENTS REVIEWED

2.1 Inspection Procedures 40801, 71801, 86750

Audits and Self-Assessments

2020 Control of Radioactive Material, dated July 22, 2020  
Respiratory Protection, dated January 19, 2021

Condition Reports

OYS-02251 OYS-02286 OYS-02287 OYS-02289 OYS-02290 OYS-02291  
OYS-02327 OYS-02337 OYS-02338 OYS-02348 OYS-02349 OYS-02360  
OYS-02363

Miscellaneous

20-906A, GTCC Campaign Deliver 4 HI-SAFES to ISFSI Pad ALARA Post-Job Review  
21-301, Condensate Storage Tank (CST) Demolition ALARA Plan  
2020-2021 10 CFR 61 Waste Stream, dated January 15, 2020  
2020 Waste Management Log  
2021 Waste Management Log  
CD-020, Decommissioning Quality Assurance Program (DQAP), Revision 0  
Manifest No. OC-21-1265, shipped November 3, 2021  
Manifest No. OC-21-1266, shipped November 3, 2021  
Manifest No. OC-21-1267, shipped November 3, 2021  
Manifest No. OC-21-1278, shipped December 8, 2021  
Manifest No. OC-21-1279, shipped December 8, 2021



Miscellaneous (Cont'd)

OC-20-011, Annual Analysis of Category 1 and Category 2 Radioactive Materials (2020),  
Revision 0

OC-21-003, Annual Analysis of Category 1 and Category 2 Radioactive Materials (2021),  
Revision 0

OCR-21-18, dated September 2, 2021

OCR-21-19, dated September 15, 2021

OCR-21-20, dated September 22, 2021

Procedures

RP-AA-500-1003, 10 CFR Part 37 Material Accountability Program, Revision 6

RP-AA-600-1001, Exclusive Use and Emergency Response Information, Revision 10

RP-AA-602-1003, Radioactive Material/Waste Shipments Transported Via Rail, Revision 1

Radiological Surveys

CAA-21-2691, Condensate Storage Tank Post Decon, dated September 9, 2021

PBA-21-2670, ORW Small Pump Room, Waste Storage Tanks, dated September 1, 2021

Surveillances and Work Orders

1-OYC-OP-OP-0023978601012129

LIST OF ACRONYMS USED

ADAMS	Agencywide Document Access and Management System
CAP	corrective action program
CFR	Code of Federal Regulations
HDI	Holtec Decommissioning International, LLC
IMC	inspection manual chapter
NRC	U.S. Nuclear Regulatory Commission
Oyster Creek	Oyster Creek Nuclear Generating Station
PHE	public health emergency
PSDAR	post shutdown decommissioning activities report