

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Report No. 84-03

Docket No. 50-219

License No. DPR-16 Priority -- Category C

Licensee: GPU Nuclear Corporation
100 Interpace Parkway
Parsippany, New Jersey 07054

Facility Name: Oyster Creek Nuclear Generating Station

Inspection At: Forked River, New Jersey

Inspection Conducted: February 1 - March 15, 1984

Inspectors:

C. J. Cowgill
C. J. Cowgill, Senior Resident Inspector

8/6/84
date

J. Wechselberger
J. Wechselberger, Resident Inspector

8/6/84
date

Approved:

E. L. Conner
E. L. Conner, Chief, Reactor Projects
Section 1B

8/8/84
date

Inspection Summary: Inspection on February 1 - March 15, 1984 (Report No. 50-219/84-03)

Areas Inspected: Routine inspection by the resident inspectors which included followup of previous inspection findings, review of plant operations, log and record review, plant tours, physical security, radiation protection, maintenance and surveillance observations, and review of periodic reports. The inspection involved **122 inspector-hours**.

Results: No conditions adverse to nuclear safety or regulatory requirements were identified. Overall control of the outage work was good.

8408300096 840810
PDR ADDCK 05000219
Q PDR

DETAILS

1. Persons Contacted

M. Budaj, Manager, Plans and Programs
P. Clark, President, GPU Nuclear Corporation
R. Fenton, Oyster Creek Emergency Preparedness Manager
P. Fiedler, Vice President and Director, Oyster Creek
V. Foglia, Operational M/PM and Surveillance Manager
D. Grace, Manager, Oyster Creek Engineering Project
E. Growney, Safety Review Manager
C. Halbfoster, Manager, Plant Chemistry
M. Laggart, Oyster Creek Licensing Manager
D. Long, Plant Security Supervisor, Oyster Creek
J. Maloney, Manager, Plant Materiel
R. Markowski, QA Oyster Creek Audit Manager
R. McKeon, Manager, Plant Operations
J. Molnar, Core Manager
W. Popow, Maintenance and Construction Director, Oyster Creek
M. Radvansky, Manager, Tech Functions, Oyster Creek Site
W. Smith, Plant Engineering Director
J. Sullivan, Plant Operations Director
D. Turner, Manager, Radiological Controls

The inspectors also interviewed other licensee personnel during the inspection including management, clerical, maintenance, and operations personnel.

2. Review of Previous Inspection Findings

(Closed) Inspector Follow Item (83-22-02): Investigation of torque wrench failure. The inspector reviewed the licensee's final report on this event. The report identified no specific cause for the damage to the torque wrench. Future corrective actions included establishing a control procedure which was accomplished September 15, 1983. The torque wrenches are removed from the drywell after each shift, stripped of any tape and plastic, inspected and then placed in a locked tool box outside the drywell. The wrenches' condition is recorded in the drywell job supervisor's log. No additional problems have been identified with torque wrenches since the original event. The inspector had no further questions on this matter.

3. Plant Operations Review

3.1 Shift Logs and Operating Records

Shift logs and operating records were reviewed to verify that they were properly filled out and signed and had received proper supervisory reviews. The inspector verified that entries involving abnormal conditions provided sufficient details to communicate equipment status and followup actions. Logs were compared to equipment control records to verify that equipment removed from or returned to service were properly

noted in operating logs when required. Operating memos and orders were reviewed to insure that they did not conflict with Technical Specification requirements. The logs and records were compared to the requirements of Procedure 106, "Conduct of Operations," and Procedure 108, "Equipment Control." The following were reviewed:

- Control Room and Group Shift Supervisor's Logs, all entries;
- Technical Specification Log;
- Control Room and Shift Supervisor's Turnover Check Lists;
- Reactor Building and Turbine Building Tour Sheets;
- Equipment Control Logs;
- Standing Orders; and
- Operational Memos and Directives.

3.2 Facility Tours

The inspector frequently toured the following areas:

- Control Room (daily)
- Reactor Building
- Turbine Building
- Augmented Off-Gas Building
- Radwaste Buildings
- Cooling Water Intake and Dilution Plant Structure
- 4160 Volt Switchgear, 460 Volt Switchgear, and Cable Spreading Room
- Diesel Generator Building
- Battery Rooms
- Maintenance Work Areas
- Yard Areas (including Area Perimeter)

The following were observed:

- 3.2.1 During daily control room tours, the inspector verified that the control room manning requirements of 10 CFR 50.54(k), Technical Specifications, and the licensee's conduct of oper-

ations procedures were met. Shift turnovers were observed for adequacy. Selected control room instrumentation needed to support the cold shutdown, defueled conditions was verified to be operable and indicated parameters within normal expected limits. The inspector verified compliance with Technical Specification Limiting Conditions for Operations (LCO's) applicable to the cold shutdown condition and refueling activities, including those relating to secondary containment integrity, and fire protection systems. The inspector closely monitored outage activities and verified that the operators and supervisors were aware of work in progress and complied with applicable Technical Specification requirements.

No unacceptable conditions were identified.

- 3.2.2 The inspector examined plant housekeeping conditions including general cleanliness, control of material to prevent fire hazards, maintenance of fire barriers, storage and maintenance of fire fighting equipment, and radiological housekeeping. During routine plant tours, the inspector noted that housekeeping conditions were acceptable given the kinds and levels of activities in progress during the inspection.

No unacceptable conditions were identified.

- 3.2.3 The inspector discussed selected alarmed annunciators with control room operators and supervisors to verify that the alarmed condition was understood and corrective action, if necessary, had been initiated. Operators and supervisors were knowledgeable of alarmed conditions. During this period, extensive testing was conducted in connection with the control room alarm modification.

The inspector will continue to follow progress on alarm testing in future inspections.

- 3.2.4 Equipment control procedures were examined for proper implementation by verifying that tags were properly filled out, posted, and removed as required, that jumpers were properly installed and removed, and that equipment control logs and records were complete. Selected cleared tagouts were reviewed to determine that system alignments had been properly restored and safety systems returned to service had been properly tested. Selected locked valves were examined for proper position and installation of locking devices. The inspector monitored outage related activities including erection of scaffold and work platforms, installation of temporary hoses and cables, and the set up of radiological control barriers, to ensure that these activities do not block or otherwise im-

pair the operability of components important to safety, and were controlled in accordance with the equipment control procedures when required. No unacceptable conditions were identified.

4. Radiation Protection

During entry to and exit from radiation controlled areas (RCA), the inspector verified that proper warning signs were posted, personnel entering were wearing proper dosimetry, that personnel and materials leaving were properly monitored for radioactive contamination, and that monitoring instruments were functional and in calibration. Posted extended Radiation Work Permits (RWP's) and survey status boards were reviewed to verify that they were current and accurate. The inspector observed activities in the RCA to verify that personnel complied with the requirements of applicable RWP's and that workers were aware of the radiological conditions in the area.

No unacceptable conditions were identified.

5. Physical Security

During daily entry and egress from the protected area, the inspector verified that access controls were in accordance with the security plan and that security posts were properly manned. During facility tours, the inspector verified that protected area gates were locked or guarded and that isolation zones were free of obstructions. The inspector examined vital area access points to verify that they were properly locked or guarded and that access control was in accordance with the security plan.

No unacceptable conditions were identified.

6. Maintenance

The inspector observed maintenance activities to verify that activities were properly approved, operations personnel were cognizant of activities in progress, proper procedural controls were in effect, redundant systems and components were available when required, test instrumentation was calibrated, activities were performed in an acceptable manner by appropriately qualified personnel, and appropriate radiological precautions were taken. Portions of the following activities were observed:

- Cable tray installation;
- Cable spreading project tunnel erection;
- Control room alarm panel modifications;
- Torus coating project;
- Scram Discharge Volume modification;

- Condensate and Feed System maintenance; and
- Post Accident Sampling Modification.

6.1 Torus Coating Project

The inspector reviewed the restoration of the torus coating. During this review, the following documents were reviewed to determine the specifications for coating the torus, type of paint to be used, and licensee's inspection requirements for review of work in progress and completed work. The following documents were reviewed:

- | | |
|--|---|
| Technical Specification
SP1302-06-001 | "Coating of Ferrous Metal Surfaces for Class I Service Level," Revision 4, dated January 10, 1984 |
| Technical Specification
SP1302-08-003 | "Application of Mobil 78 Series Epoxy System," Revision 3, dated January 9, 1984 |
| Technical Specification
SP1302-08-002 | "Inspection of the Torus Coating," Revision 1, dated January 23, 1984 |

The inspector also reviewed the following procedures:

- | | |
|---------------|---|
| A-15B-51628.4 | "Phase 2 Preparation of Surface and Coating Application, Torus Shell and Internal Structures," Revision 1, dated January 16, 1984 |
| 83-035 | "First Phase Paint Removal and Recoating of Internal Shell," Revision 0, dated March 31, 1983. |

The inspector noted that specifications and procedures required surface conditions of between 2.5 and 4.0 mil roughness for paint application. Quality Control inspections of the surface were made to ensure that this specification was met. The inspector verified that proper surface specifications were met after the second sand blast operation. Additionally, the inspector reviewed various inspections performed by the licensee to determine that sand blasting material was satisfactory for continuous use in regards to water and oil content.

No unacceptable conditions were identified.

The inspector reviewed the following Material Nonconformance Reports (MNCRs) associated with torus preparation and painting to determine if the licensee had correctly identified and dispositioned deficiencies. MNCRs reviewed were 84-025, 84-064, 84-087, 84-088, 84-091, 84-093, 84-103, 84-111, 84-117, 84-144, 84-152, 84-196, 84-194, 84-206, 84-250, and 84-258. During the review the inspector inspected the torus and confirmed that oil contamination identified by MNCR 84-025 was not present.

The inspector noted that care was being taken to ensure proper temperature and humidity conditions and that QC was inspecting and releasing each bay for painting. The inspector noted that on two occasions the paint contractor was ordered to stop work to correct identified deficiencies.

Specifications for painting the torus required three coats of Mobil 78 epoxy paint for the immersion phase of the torus and two coats for the vapor phase. Additionally, the immersion phase was required to have epoxy filling applied to extensively pitted areas prior to applying the paint. The inspector witnessed application of epoxy filler and discussed the criteria for its application with licensee personnel. The inspector also noted that QC inspections of areas that had been painted were detailed and that QC inspectors were knowledgeable of their inspection criteria.

The inspector reviewed the qualification records for several paint inspectors. No unacceptable conditions were identified.

7. Surveillance Testing

The inspector reviewed the following surveillance tests to determine if each test was technically adequate, has been performed at the required frequency and was under the control of the master surveillance schedule.

- 636.4.003, "Diesel Generator Load Test", Revision 17, dated December 21, 1983.
- 658.4.003, "Emergency Alarm/Telephone Tests," Revision 2, dated March 29, 1982.

No unacceptable conditions were identified.

8. Review of Periodic and Special Reports

Upon receipt, periodic and special reports submitted by the licensee pursuant to Technical Specification 6.9.1 were reviewed by the inspector. This review included the following considerations: the report includes the information required to be reported to NRC; planned corrective actions are adequate for resolution of identified problems; and that the reported information is valid. The following periodic report was reviewed by the inspector.

- January 1984 Monthly Operating Report

9. Exit Interview

At periodic intervals during the course of this inspection, meetings are held with senior facility management to discuss the inspection scope and findings.

A summary of findings was presented to the licensee at the end of this inspection.

No written material has been provided to the licensee during this report period.