

G P U N U C L E A R C O R P O R A T I O N

OYSTER CREEK NUCLEAR
GENERATING STATION

1983 Annual Environmental Operating Report
for the
Oyster Creek Environmental Technical Specifications
Appendix B to License NO. DPR-16

Docket No. 50-219

March 1984

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1.0 Introduction

This document is the Oyster Creek Nuclear Generating Station (OCNGS) Annual Environmental Operating Report (AEOR) for 1983. It is submitted in accordance with Section 4.5.1 of the Oyster Creek Environmental Technical Specifications (OCETS).

OCNGS is a single cycle, forced circulation, boiling light water reactor of 620 MWe maximum (summer) dependable net capability, owned by Jersey Central Power & Light Company and operated by GPU Nuclear Corporation. The OCNGS is located in Lacey Township, Ocean County, New Jersey. The plant is subject to a Provisional Operating License No. DPR-16 pursuant to Docket No. 50-219. The date of initial reactor criticality was May 3, 1969 and the commercial generation of power began on December 23, 1969.

This AEOR covers the period from January 1, 1983 through December 31, 1983. The report is organized such that Sections 2.0 and 3.0 correspond to those same sections in OCETS. However, due to differences in the required reporting dates of various studies conducted in accordance with OCETS, reports of those studies have been or will be submitted under separate cover and will not be duplicated in this report. In each of these instances, a confirmation of the filing of the required reports is provided in the appropriate sections of the AEOR. All data which is otherwise required to be presented in the AEOR are included in this report.

2.0 Environmental Monitoring

This Section of the AEOR outlines the various environmental monitoring programs to be conducted under Section 2.0 of the OCETS, and provides the status of submission of reports on these various programs. The reporting requirements of the studies required in Section 2.0 do not coincide with the required due date of the AEOR.

Meteorological data are contained in the Semi-Annual Effluent Release Reports which were submitted on August 31, 1983 covering the first six (6) calendar months of 1983 and on February 29, 1984 covering the last six (6) calendar months of 1983. This data is therefore incorporated by reference into this AEOR.

2.1 Biotic - Aquatic

Section 2.1.1 of OCETS specifies the following studies:

- A. Impingement of Organisms
 - 1. Conventional Travelling Screens
 - 2. Fish Return System
- B Fish Kill Monitoring Program

The OCETS requires these studies be submitted annually in February of each year. These studies were submitted on February 29, 1984. Since these reports were submitted under separate cover they are not duplicated here.

3.0 Special Monitoring and Study Activities

This Section of the AEOR presents the results of the two special monitoring and study activities required by the OCETS.

3.1 Woodborer Monitoring Program

This program has reporting requirements which are different from the other OCETS programs. During the reporting periods the following submittals were made.

- a) The 31st Quarter Report covering the period from November 21, 1982 to January 20, 1983 was submitted on March 15, 1983.
- b) The 32nd Quarter Report covering the period from January 21, 1983 to April 20, 1983 was submitted on June 1, 1983.
- c) The 33rd Quarter Report covering the period from April 21, 1983 to July 20, 1983 was submitted on September 12, 1983.
- d) The 34th Quarter Report covering the period from July 21, 1983 to October 20, 1983 was submitted on December 2, 1983.

In addition, as per OCETS, the annual report for the program will be submitted by the end of May 1984. Therefore, no results of this program are presented herein.

3.2 Unusual or Important Environmental Events

There were no occurrences of unusual or important environmental events this reporting period.

4.0 Additional Information

This Section of the AEOR is included in order to report any additional information that is required.

Section 4.5.1 of the OCETS requires a summary of:

- A. All OCETS non-compliances and the corrective action taken to remedy them.
- B. Changes made to State and Federal permits and certificates which pertain to the requirements of OCETS.
- C. Changes in station design which could involve an environmental impact.
- D. Changes to OCETS.

4.1 Summary of OCETS Non-Compliances

During the reporting period there were four (4) Nonroutine Environmental Operating Reports filed with the NRC. These non-compliances were with the Limiting Conditions for Operation. The non-compliances occurred prior to Amendment 66 to OCETS which deleted the Limiting Conditions for Operation. Amendment 66 was effective as of March 24, 1983; more information pertaining to amendment 66 can be found in Section 4.4 of this AEOR.

A. Report No. 50-219/83-1-1

Date and time of occurrence: January 13, 1983 at 1338 hours to 1354 hours.

Description: At 1338 hours on January 13, 1983, dilution pump 1-2 was removed from service, leaving only dilution pump 1-3 operational. Dilution pump 1-2 was returned to service at 1353 hours.

Corrective Action: Immediate correction action involved restarting pump 1-2. For information on long term corrective action see Section 4.3.

B. Report No. 50-219/83-2-1

Date and Time of Occurrence: January 18, 1983 at 1040 hours to 1057 hours.

Description: At 1040 hours dilution pump 1-1 was removed from service, leaving only pump 1-3 in operation. Dilution pump 1-1 was returned to service at 1057 hours.

Corrective Action: Immediate corrective action involved restarting dilution pump 1-1. For information on long term corrective action see Section 4.3.

C. Report No. 50-219/83-3-1

Date and Time of Occurrence: January 23, 1983 at 1044 hours to January 30, 1983 1246 hours.

Description: at 1044 hours on January 23, 1983 dilution pumps 1-2 and 1-3 tripped off, leaving no dilution pumps in service due to a power cable failure.

Corrective Action: The power cable was replaced and dilution pumps 1-2 and 1-3 were restarted on January 30, 1983 at 1246 hours. For information on long term corrective action see Section 4.3.

D. Report NO. 50-219/83-4

Date and Time of Occurrence: February 11, 1983 at 1300 hours to February 12, 0012 hours.

Description: A controlled reactor shutdown of the station commenced at 1300 hours on February 11, 1983; the station was at 745 MWT and 227 MWe. At this time, dilution pump 1-1 remained in service with the intake canal water temperature below 10.0°C (50.0°F). Dilution pump 1-1 was removed from service at 0012 hours on February 12, 1983.

Corrective Action: Plant procedure 324 which covers dilution pump operation was revised to provide more explicit directions for dilution pump operation during shutdowns.

4.2 Summary of Changes Made to Federal and State Permit Which Pertain to the Requirements of OCETS

There were no changes to Federal or State permits which impacted on OCETS during the reporting period.

4.3 Summary of Changes in Station Design Which Could Involve an Environmental Impact

The following changes were initiated or completed during the report period. These changes will have a positive impact on the environment by assuring compliance with the OCETS.

- 1) Dilution pump 1-1 was completely overhauled and tested. Dilution pump 1-2 was overhauled, but still required testing. Overhaul of dilution pump 1-3 was initiated. In the seal and lube oil systems 80% of the piping was replaced, new pumps, auto strainers, micron filters, duplex screens, and 2 seal and lube oil coolers were also installed.
- 2) Work was initiated on a fish sampling pool and trough.

- 3) Travelling screens were retrofitted with stainless steel basket chains and baskets.
- 4) Installed two (2) low pressure and two (2) high pressure screen wash pumps. Approximately 70% of the low pressure piping was installed.

4.4 Summary of Changes to OCETS

There was one change to OCETS during the reporting period; Amendment 66 which became effective on March 24, 1983.

Amendment 66 deleted all Limiting Conditions for Operation, Thermal Plume Analysis, Hydrographic Analysis and other Ecological Studies or requirements since these items are required by other regulatory bodies.



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Docket No. 50-219
631 Park Avenue
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Gentlemen:

Subject: Oyster Creek Nuclear Generating Station
Docket No. 50-219
Environmental Technical Specifications
Annual Environmental Operating Report

Enclosed are two copies of the 1983 Annual Environmental Operating Report (AEOR) for the Oyster Creek Nuclear Generating Station. The AEOR is submitted in accordance with Section 4.5.1 of the Oyster Creek Technical Specification (OCETS), Appendix B to License No. DPR-16.

Should you have any questions regarding this submittal, please contact Mr. Ronald K. Lacey of our Licensing & Regulatory Affairs Staff at (201) 299-2271.

Very truly yours,


P. B. Fiedler
Vice President/Director
Oyster Creek

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Enclosures

cc: Director (17 Copies)
Office of Nuclear Reactor Regulations
United States Nuclear Regulatory Commission
Docket No. 50-219
Washington, DC 20555
c/o Distribution Services Branch, DDC, ADM

New Jersey Bureau of Radiation Protection
Attention: Chief
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