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NLR-E92101

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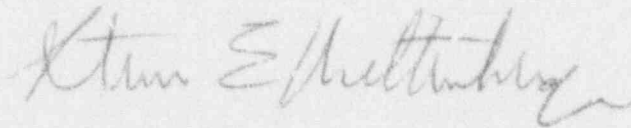
Gentlemen:

1991 ANNUAL ENVIRONMENTAL OPERATING REPORT  
HOPE CREEK GENERATING STATION  
FACILITY OPERATING LICENSE NO. NPF-57  
DOCKET NO. 50-354

The attached annual environmental operating report is hereby submitted pursuant to Subsection 5.4.1 of the Environmental Protection Plan (Nonradiological) for Hope Creek Generating Station. The Environmental Protection Plan is Appendix B to Facility Operating License NPF-57 (Docket No. 50-354).

If any questions arise concerning this report, please contact Mr. F. X. Thomsor, Jr., Manager - Licensing and Regulation at: (609) 339-1229.

Sincerely,



Attachment

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1991 ANNUAL ENVIRONMENTAL OPERATING REPORT  
(NON-RADIOLOGICAL)  
January 1 through December 31, 1991

HOPE CREEK GENERATING STATION  
DOCKET NO. 50-354  
OPERATING LICENSE NO. NPF-57

PUBLIC SERVICE ELECTRIC AND GAS COMPANY  
P.O. BOX 236  
HANCOCKS BRIDGE, NEW JERSEY 08038

APRIL 1992

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## 1.0 INTRODUCTION

This 1991 Annual Environmental Operating Report (AEOR) for the Hope Creek Generating Station was prepared in accordance with Subsection 5.4.1 of Appendix B to Facility Operating License No. NPF-57, Environmental Protection Plan (Nonradiological). The reporting requirements of the Environmental Protection Plan (EPP) became effective April 11, 1986, with the issuance of the initial Hope Creek Operating License (NPF-57). This is the sixth AEOR submitted for Hope Creek Generating Station. It corresponds to the reporting period January 1, 1991 to December 31, 1991. Hope Creek Generating Station produced 7,394,425 megawatt-hours of net electrical energy during this period.

On September 3, 1991, PSE&G received Amendment No. 43 for Hope Creek Generating Station. The Amendment changes Subsection 4.2.1, Aquatic Monitoring, of the Environmental Protection Plan, Appendix B of the Facility Operating License.

As required by Subsection 5.4.1 of the EPP, we have included summaries and analyses of all required environmental protection activities. This information is described in Section 2.0. Section 3.0 addresses the issue of EPP compliance. Changes to station design or operation and the review for potentially significant unreviewed environmental questions are addressed in Section 4.0. Administrative review procedures and unusual and/or important environmental events are discussed in Section 5.0.

## 2.0 ENVIRONMENTAL PROTECTION ACTIVITIES

### 2.1 AQUATIC ISSUES

Subsection 1.2.1 of the EPP references the Clean Water Act as the mechanism for protecting aquatic biota through water quality monitoring. The NRC relies upon the State of New Jersey, acting under the authority of the Clean Water Act, to insure applicable requirements for aquatic monitoring are implemented.

The state of New Jersey requires as part of their New Jersey Pollutant Discharge Elimination System (NJPDES) permit program that effluent monitoring be performed, with the results summarized and submitted monthly on discharge monitoring report forms (DMR's). The monitoring is intended to determine compliance with permit (NJPDES No. NJ0021411) effluent limitations. We have reviewed the DMR's corresponding to the 1991 AEOR reporting period and have determined that no significant deviations have occurred. Copies of monthly DMR's are routinely sent to the document control desk and additional copies are available upon request.

In March 1990, PSE&G submitted an application to the NJDEPE for renewal of the Station's NJPDES permit which was to expire on September 30, 1990. In support of this permit application, PSE&G submitted a supplement to the application on August 19, 1991, which contained additional data not provided in the original application and updated and clarified previously submitted information. PSE&G continues to operate under the conditions of the expired NJPDES permit in accordance with NJDEPE's letter of May 23, 1990.

Effective January 11, 1990, PSE&G entered into an Administrative Consent Order (ACO) with the NJDEPE to resolve historical NJPDES permit violations. The majority of the violations occurred during Station startup and were due in part to the inappropriate use of pre-operational design criterion in establishing NJPDES permit limitations. As a condition of the ACO, PSE&G was required to conduct several studies during the 1990-91 time period to determine the operating capabilities of its treatment and discharge systems. The last of these studies, the Cooling Tower Blowdown Study, was submitted to NJDEPE on October 30, 1991.

On April 12, 1991, PSE&G submitted an application to NJDEPE for a Treatment Works Approval (TWA) for construction and operation of a sewer extension and lift station to service the new Centralized Warehouse constructed on the Hope Creek site. The project was granted a TWA permit on October 7, 1991.

While the NRC relies on the State of New Jersey and the NJDEPE for protection of the water quality, the National Marine Fisheries Service maintains regulatory authority with respect to certain migratory threatened and endangered aquatic species. As required by Amendment 43 to the Facility Operating License NPF-57 and the incorporated Endangered Species Act, Section 7 Consultation, Biological Opinion, Hope Creek Generating Station is required to conduct daily inspections of the service water intake trash bars on a seasonal basis for stranded sea turtles. Hope Creek complied with these newly incorporated revisions to subsection 4.2.1 of the EPP; however, no sea turtle incidental takes occurred during 1991. Hope Creek Generating Station is proceeding to implement the Conservation Recommendations now referenced in Subsection 4.2.1 of the EPP.

## 2.2 TERRESTRIAL ISSUES

The Salt Drift Monitoring Program requirements specified in Section 4.2.2 of the EPP have been satisfied and demonstrated that no significant adverse impacts will occur as a result of cooling tower operation. No further terrestrial ecology monitoring is required by the EPP and there have been no unreviewed environmental impacts to the terrestrial ecology of the area as a result of facility operation.

## 3.0 EPP COMPLIANCE STATUS

### 3.1 EPP NONCOMPLIANCES

Subsection 5.4.1 of the EPP requires a list of EPP noncompliances and the corrective actions taken to remedy them. No previously unreviewed environmental impacts attributable to the operation of the Hope Creek Generating Station were observed during 1991. Likewise, there were no instances of noncompliance with the EPP.



### 3.2 REVIEW

Subsection 5.1 of the Hope Creek Generating Station EPP requires that an independent review of compliance with the Environmental Protection Plan be maintained and made available for inspection. PSE&G's Environmental Compliance Group in the Environmental Affairs Department last conducted an environmental compliance review of the Hope Creek Generating Station in July 1990.

### 4.0 CHANGES IN STATION DESIGN OR OPERATION

Pursuant to the requirements of Section 3.1 of the EPP, station design/operational changes during the time period covered by this report were reviewed for potential environmental impact. None of the recommended changes posed a potential to significantly affect the environment, and therefore, none involved an unreviewed environmental question or a change in the EPP.

### 5.0 NON-ROUTINE REPORTS

Subsection 5.4.1 of the EPP requires that a list of nonroutine reports submitted to the NRC during 1991 be included with this report. In accordance with the NJDEPE's revised Discharge Prevention Control and Countermeasure regulations effective September 11, 1991 (N.J.A.C. 7:1E), PSE&G is required to report the discharge of virtually any amount of any hazardous material to the land or waters of the State. While these discharges may not meet the definition of an unusual or important environmental event as defined by EPP Subsection 4.1, Hope Creek Generating Station did provide the NRC with Four-hour reports in accordance with 10CFR50.72(b)(2)(vi) because a notification to another government agency was required.

Hope Creek Generating Station also provided the NRC with copies of the 30-day written confirmation reports submitted to the NJDEPE for any such discharges as specified in EPP Subsection 5.4.2.



The following discharges of hazardous materials were reported to the NJDEPE during 1991:

<u>Date of Occurrence</u>	<u>Amount (gallon)</u>	<u>Chemical</u>
07/26/91	1	No. 2 fuel oil
09/16/91	400	sodium hypochlorite solution
09/23/91	2	diesel fuel
10/05/91	40	ammonium bisulfite solution
10/05/91	<1	diesel fuel
10/29/91	3	No. 2 fuel oil

The July 26, 1991 discharge of No. 2 fuel oil did enter the Delaware River due to a temporarily overloaded Low Volume Oily Waste treatment system. Every other discharge was to the soil and did not enter any ground or surface water of the State. Each discharge was investigated, cleaned up, and corrective measures to minimize the potential for future reoccurrence were implemented.

Hope Creek Generating Station experienced no unusual or important events that indicated or could have resulted in "significant environmental impact" during the 1991 reporting period.