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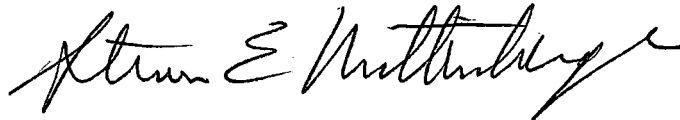
Gentlemen:

1990 ANNUAL ENVIRONMENTAL OPERATING REPORT
SALEM GENERATING STATION, UNIT NOS. 1 AND 2
FACILITY OPERATING LICENSE NOS. DPR-70 AND DPR-75
DOCKET NOS. 50-272 AND 50311

The attached annual environmental operating report is hereby submitted pursuant to Subsection 5.4.1 of the Environmental Protection Plan (Nonradiological) for Salem Generation Station Unit Nos. 1 and 2. The Environmental Protection Plan is Appendix B to Facility Operation License DPR-70 and DPR-75, (Docket Nos. 50-272 and 50-3111).

If and questions arise concerning this report, please contact Mr. Bruce A. Preston, Manager - Licensing and Regulation at (609) 339-1229.

Sincerely,



Attachments

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1990 ANNUAL ENVIRONMENTAL OPERATING REPORT
(NON-RADIOLOGICAL)
January 1 through December 31, 1990

SALEM GENERATION STATION
UNIT NOS. 1 and 2
DOCKET Nos. 50-272 and 50-311
OPERATING LICENSING Nos. DPR-70 and DPR-75

PUBLIC SERVICE ELECTRIC AND GAS COMPANY
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APRIL 1991

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1.0 INTRODUCTION

This 1990 Annual Environmental Operating Report (AEOR) is submitted in accordance with Section 5.4.1 of the Salem Generating Station, Unit Nos. 1 and 2, Environmental Protection Plan, Nonradiological (Appendix B to Unit Nos. 1 and 2, Facility Operating License Nos. DPR-70 and DPR 75, Docket Nos. 50-272 and 50-311, respectively).

On August 21, 1989, the Nuclear Regulatory Commission issued Amendment Nos. 100 and 77 to Facility Operating License Nos. DPR-70 and DPR-75 for the Salem Generating Station, Unit Nos. 1 and 2. These amendments replace the Environmental Technical Specification (ETS) (Appendix B) with an Environmental Protection Plan (EPP).

This is the second Annual Operating report submitted under the EPP and covers Salem Unit No. 1 and Salem Unit No. 2 for the period from January 1 through December 31, 1990. During 1990, Salem Unit No. 1 generated 5,951,774 megawatt-hours of net electrical energy. Salem Unit No. 2 generated 6,864,280 megawatt-hours of net electrical energy.

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

2.0 ENVIRONMENTAL PROTECTION ACTIVITIES

2.1 AQUATIC MONITORING ISSUES

Subsection 4.2.1 of the EPP references the Clean Water Act as a mechanism for protecting aquatic biota through water quality monitoring. The NRC relies on the State of New Jersey, acting under the authority of the Clean Water Act, to insure applicable requirements for aquatic monitoring are implemented. The New Jersey Department of Environmental Protection (NJDEP) is the State's regulatory agency.

The NJDEP requires as part of the 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 (DMRs). The monitoring is intended to determine compliance with the effluent limitations of the station's NJPDES permit (No. NJ0005622). We have reviewed the DMRs corresponding to the 1990 AEOR reporting period and have determined that no significant deviations have occurred. We have observed no evidence of trends towards damage to the environment. Copies of monthly NJPDES DMRs for the 1990 report year are available upon request and have been transmitted to the USNRC.

On June 1, 1990, the Salem Generating Station filed an application for the renewal of their NJPDES permit. The application was filed 180 days prior to the expiration of the permit, November 30, 1990, pursuant to the New Jersey Administrative Code. Additional supplements to the permit application were filed with the NJDEP on August 31, 1990, and January 10, 1991. Copies of the application and supplemental data were also provided to the NRC.

The NJDEP issued a draft NJPDES permit to the Salem Station on October 3, 1990. The draft permit contains several new treatment requirements and monitoring conditions which PSE&G believes are excessive and restrictive. PSE&G is working with the NJDEP in order to resolve all outstanding items and submitted written comments on the draft NJPDES to the NJDEP on January 13, 1991. The conditions of the expired NJPDES permit remain in force until issuance of the final permit.

2.2 TERRESTRIAL ISSUES

Section 4.2.2 of the EPP no longer requires terrestrial monitoring. Monitoring of Diamondback Terrapin nesting and the Osprey and Bald Eagle survey were completed in 1989.

3.0 EPP COMPLIANCE STATUS

3.1 EPP NONCOMPLIANCES

Subsection 5.4.1 of the EPP requires a list of EPP non-compliances and the corrective actions taken to remedy them. No significant environmental impacts attributable to the operation of Salem Generating Station Unit Nos. 1 and 2 were observed during 1990. PSE&G continues to operate Salem Units Nos. 1 and 2 in compliance with the EPP during 1990 and had no instances of noncompliance that required corrective actions.

3.2 REVIEW

Subsection 5.1 of the Environmental Protection Plan for Salem Generating Station, Units 1 and 2, requires that an independent review of compliance with the EPP be maintained and made available for inspection. The Corporate Environmental Compliance Group in the Environmental Affairs Department has conducted an environmental compliance review of the Salem Generating Station. This review is available upon request.

4.0 CHANGES IN STATION DESIGN OR OPERATION

Pursuant to the requirements of Section 3.1 of the Environmental Protection Plan for Salem Unit Nos. 1 and 2, station design changes and operation performance of tests or experiments, for the AEOR covered time period, were reviewed for potential environmental impact. None of the recommended changes posed a potential to significantly affect the environment, therefore, none involved an unreviewed environmental question or a change in the EPP.

5.0 NONROUTINE REPORTS

Subsection 5.4.1 of the EPP requires that a list of all nonroutine reports (submitted in accordance with Subsection 5.4.2) be included as part of the Annual Environmental Operating Report. Salem Generating Station experienced no unusual or important events that indicated or could have resulted in "significant environmental impact" during the 1990 reporting period. Consequently, there were no nonroutine reports submitted to the NRC.