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SCH09-050

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U.S. Nuclear Regulatory Commission
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Salem Generating Station, Units 1 and 2
Facility Operating License Nos. DPR-70 And DPR-75
NRC Docket Nos. 50-272 and 50-311

Subject: 2008 ANNUAL ENVIRONMENTAL OPERATING REPORT

The attached 2008 Annual Environmental Operating Report is hereby submitted pursuant to Subsection 5.4.1 of the Environmental Protection Plan (non-radiological) for Salem Generating 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 50-311).

If you have any questions or require additional information, please do not hesitate to contact Mr. Luis Cataldo at (856) 339-2307 or Ms. Tanya Davis at (856) 339-1426.

Sincerely,

A handwritten signature in cursive script, appearing to read "George H. Gellrich".

George H. Gellrich
Plant Manager - Salem
PSEG Nuclear LLC

Attachment (1)

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NRK

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Cc: Mr. Samuel J Collins, Administrator - Region I
U. S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Mr. R. Ennis, Licensing Project Manager - Salem
U. S. Nuclear Regulatory Commission
One White Flint North
11555 Rockville Pike
Mail Stop 8B2
Rockville, MD 20852

USNRC Senior Resident Inspector - Salem
Mail Code X24

Mr. P. Mulligan, Manager IV
Bureau of Nuclear Engineering
New Jersey Department of Environmental Protection
P.O. Box 415
Trenton, NJ 08625-0415

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Bcc: Salem Site Vice President
Salem Plant Manager
Salem Radwaste and Environmental Supervisor
Edward Keating
Christine Neely
Helen Gregory
NBS RM
File No. 4.6 (Salem)

2008 ANNUAL ENVIRONMENTAL OPERATING REPORT
(NON-RADIOLOGICAL)
January 1 through December 31, 2008

SALEM GENERATION STATION
UNIT NOS. 1 AND 2
DOCKET NOS. 50-272 AND 50-311
OPERATING LICENSE NOS. DPR-70 AND DPR-75

PSEG NUCLEAR LLC
P.O. BOX 236
HANCOCKS BRIDGE, NEW JERSEY 08038

APRIL 2009

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1.0 INTRODUCTION

This 2008 Annual Environmental Operating Report (AEOR) is submitted in accordance with Section 5.4.1 of the Salem Generating Station Unit No. 1 and 2, Environmental Protection Plan (EPP), non-radiological (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).

2.0 ENVIRONMENTAL PROTECTION ACTIVITIES

2.1 AQUATIC MONITORING – SUMMARY AND ANALYSES

Subsection 4.2.1 of the EPP references the Clean Water Act as a mechanism for protecting aquatic biota through water quality monitoring. The United States Nuclear Regulatory Commission (USNRC) 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 (DMR) forms. The monitoring is intended to determine compliance with the effluent limitations of the station's NJPDES permit (No. NJ0005622). PSEG reviewed the DMRs corresponding to the AEOR 2008 reporting period and determined that the station is in compliance with the effluent limitations of the station's NJPDES permit. PSEG has observed no evidence of trends towards damage to the environment. Copies of monthly DMRs are routinely sent to USNRC's Document Control Desk, and additional copies are available upon request.

As required by Section 4.2.1 of the EPP, Salem Generating Station also adhered to the requirements delineated in the "Reasonable and Prudent Measures" and "Terms and Conditions" sections of the current Incidental Take Statement, dated January 21, 1999. In 2008, no sea turtles and only one shortnose sturgeon was recovered at the circulating water intake trash bars. This non-routine event is described in section 5.1 later in this document.

2.2 TERRESTRIAL MONITORING – SUMMARY AND ANALYSES

As addressed in Section 4.2.2 of the EPP, Terrestrial Monitoring is not required.

3.0 EPP NONCOMPLIANCES

Subsection 5.4.1 of the EPP requires a list of EPP noncompliances and the corrective actions taken to remedy them. There were no EPP noncompliances during 2008.

4.0 CHANGES IN STATION DESIGN OR OPERATION

Pursuant to the requirements of Section 3.1 of the EPP, station changes to design or operations, as well as any tests and experiments, made in 2008 were reviewed for potential environmental impact. None of these changes posed a potential to significantly affect the environment, created an unreviewed environmental question or resulted in a change to the EPP.

5.0 NONROUTINE REPORTS

5.1 2008 NONROUTINE REPORTS

Subsection 5.4.1 of the EPP requires a list of all nonroutine reports (submitted in accordance with Subsection 5.4.2 of the EPP) be included as part of the Annual Environmental Operating Report. Salem Generating Station experienced no unusual or important events (in accordance with Subsection 4.1 of the EPP) that indicated or could have resulted in a "significant environmental impact" during the 2008 reporting period. However, the following event was reported to other Federal, State or local agencies in accordance with their reporting requirements, and copies of those reports were provided to the USNRC at the same time:

- On July 13, 2008 at approximately 0930, and during routine cleaning of the trash racks, Site Services personnel recovered the decaying carcass of a sturgeon, which appeared to have wounds similar to those resulting from a boat impact. Personnel from Environmental Consulting Services Inc. responded and confirmed the identification of the sturgeon as a Shortnose Sturgeon. The sturgeon was examined, measured and weighed and scanned for Passive Integrated Transponder (PIT) tags but no response was obtained during the scanning. The sturgeon, badly decomposed, was discarded after conferencing with the National Marine Fisheries Service office personnel. The U.S. Nuclear Regulatory Commission (USNRC), the National Marine Fisheries Service (NMFS) and the New Jersey Department of Environmental Protection (NJDEP) were notified regarding this occurrence. All measures in place were analyzed and determined that no other actions were warranted.

5.2 ONGOING ISSUES FROM PREVIOUS NONROUTINE REPORTS

Groundwater monitoring and product recovery activities to remediate an underground leak of spent fuel pool water containing tritium from the Unit 1 Fuel Handling / Auxiliary Building seismic gap first identified on September 18, 2002 continued through 2008 in accordance with the scope of work proposed in the Remedial Action Work Plan, approved by the NJDEP - Bureau of Nuclear Engineering (BNE) in November 2004. Product recovery activities involved the use of both a fixed groundwater extraction system and a mobile groundwater recovery unit.

Groundwater monitoring and product recovery activities to remediate an underground diesel fuel oil leak first identified on August 2, 2004 continued through 2008 in accordance with the scope of work proposed in the Remedial Investigation Work Plan, dated December 2004 (NJDEP Incident Number 04-08-02-2350-16). Product recovery activities involve the use of a Spill Buster® unit, a passive oil skimmer, or absorbent socks at the monitoring wells. Groundwater sample results continue to remain below the Ground Water Quality Criterion (GWQA) for Class IIA aquifers. By letter dated March 24, 2008, NJDEP has modified the scheduled sampling and reporting periods.

Copies of the progress reports for either of the above remediation activities are available upon request.