

JUN 30 2006



LR-E06-0293

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
ARTICLE NUMBER: 7004 2510 0005 2135 2931

Bureau of Discharge Prevention
New Jersey Department of Environmental Protection
401 East State Street – P.O. Box 424
Trenton, New Jersey 08625-0424

Attention: Discharge Confirmation Reports

**RE: PSEG NUCLEAR LLC - SALEM GENERATING STATION
NJDEP CASE NO. 06-05-10-0235-20
DISCHARGE CONFIRMATION REPORT - UPDATE**

In accordance with N.J.A.C. 7:1E-5.8(d), PSEG Nuclear LLC (PSEG Nuclear) is submitting the enclosed Discharge Confirmation Report update. The initial report (LR-E06-0236 from Thomas E. Gierich, Salem Operations Director, dated June 6, 2006) described a discharge on May 10, 2006 of approximately 2,000 gallons of water containing hydrazine and ammonium hydroxide from the Salem Unit 1 Condensate Polisher System to the ground, with an additional discharge of 2,000 gallons to the Delaware River. The discharge was also reported to the Nuclear Regulatory Commission pursuant to that agency's requirements and was assigned Event Number 42563. The enclosed report contains updated additional information.

If you have any questions regarding this information, please contact Mr. Brendan Daly of my staff at (856) 339-1169.

Sincerely,

A handwritten signature in black ink, appearing to read "C. Fricker", written over the typed name.

Carl J. Fricker
Salem Plant Manager

Attachment

IE25

JUN 30 2006

C U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Mr. Jim Werner
Salem County Department of Health
98 Market Street
Salem, NJ 08079

DISCHARGE CONFIRMATION REPORT - UPDATE
SALEM GENERATING STATION
NJDEP Case No. 06-05-10-0235-20

1. **Name, Address and Telephone Number of Individual Who Reported**

No change.

2. **Name, Address and Telephone Number of Person Submitting Updated Report**

Carl J. Fricker
Salem Plant Manager
PSEG Nuclear LLC - Salem Generating Station
P. O. Box 236, M/C S01
Hancocks Bridge, New Jersey 08038
(856) 339-1102

3. **Name, Address and Telephone Number of Owner/Operator of Facility Where Discharge Occurred**

No change.

4. **Source of Discharge, If Known**

On May 10, 2006 at ~0040, the duty Secondary Chemist placed Demineralizer Vessel No. 16 in purge rinse on the Unit 1 Condensate Polishing System. After waiting approximately 15 – 20 minutes, he verified the purge rinse was in progress and left the Unit 1 Condensate Polishing Building (CPB). At ~0103, the Unit 1 Main Control Room received a Unit 1 Condensate Polishing System trouble light. The duty Secondary Chemist was paged via the plant page system, but did not hear it. At 0150, Operations personnel observed Unit 1 Main Condenser hotwell levels dropping unexpectedly. An operator was dispatched to investigate, and the duty Secondary Chemist was again paged. This time, the duty Chemistry Technician responded and was directed to the Unit 1 CPB. At 0215, the Control Room received a report of flooding from the Unit 1 CPB. A lifted relief valve (1CP285) within the Unit 1 CPB was found to be the source of the discharge. The relief valve was discharging into the Intermediate Waste Tank No. 13 (1CPE52), which flows into to the High Conductivity Waste Tank No. 12 (1CPE43), which in turn, normally pumps its contents forward to the Non-Radioactive Water Treatment System for treatment prior to discharge to the environment. However, extended actuation of the relief valve resulted in an input that exceeded the capacity of the waste tanks to hold and pump forward. The water filled the tanks, exited out of openings in the top of the tanks, spread across the floor of the CPB and left the building through both the northeast and

southeast doors. The duty Secondary Chemist immediately terminated the source of the discharge upon discovery at 0215.

5. **Location of Discharge**

No change.

6. **Common Name and CAS No. of Hazardous Substance Discharged**

No change.

7. **Quantity of Hazardous Substances Discharged**

No change.

8. **Date and Time Discharge Began, Was Discovered, Ended and Was Reported**

No change.

9. **Detailed Description of Containment, Cleanup and Removal Measures, Summary of Costs Incurred**

No change to the previously submitted description of containment, cleanup and removal measures. An Allstate Power-Vac, Inc. vacuum truck was brought in to work under PSEG direction to perform the cleanup activities previously described. The costs incurred were \$2,327.37. All other costs were level of effort.

10. **Corrective Actions – Preventative Measures**

PSEG has conducted a Prompt Investigation and an Apparent Cause Evaluation (ACE) in accordance with our problem identification and resolution process. The apparent cause was personnel error by the duty Secondary Chemist operating the Unit 1 Condensate Polishing System while initiating a purge rinse on Demineralizer Vessel No. 16. Although the correct procedure was used, the technician failed to perform procedure place keeping and step signoffs in accordance with management expectations. As a result, the Demineralized Water Common Supply Header Valve (1CP147, also known as the "K" valve) was inadvertently left open. This caused the Resin Rinse Header to over pressurize, lifting the 1CP285 relief valve. Extended actuation of the relief valve due to the inability of Operations to contact the duty Secondary Chemist in a timely manner, as well as delay by Operations in investigating the Unit 1 Condensate Polisher trouble alarm until a loss of hotwell level occurred, resulted in overflow of the waste tanks in the Unit 1 Condensate Polishing Building.

The following corrective actions have been completed:

- Monitored multiple purge rinse activities on both the Unit 1 and Unit 2 Condensate Polishing Systems to replicate the conditions during the event to determine if the event was due to an equipment malfunction. No equipment deficiencies were identified.
- The duty Secondary Chemist has been issued a wireless phone to ensure timely communications with the Operations department. This phone will be charged, carried at all times, and documented on the Water Treatment Shift Technician Turnover sheet.
- When performing purge rinses on the Condensate Polishers, the following actions have been instituted in the Chemistry Night and Standing Orders:
 - Prior to starting a purge rinse, the level in the High Conductivity Waste Tanks will be reduced to less than 10%.
 - The rinse will be continuously monitored for the first hour, and then checked once every hour until complete.
- The Secondary Chemist involved was remediated and held accountable in accordance with PSEG management processes.
- Chemistry management reinforced procedure place keeping and step signoff expectations with the Chemistry Technicians through issuance of an internal memorandum, dated May 24, 2006, requiring signoff by each Chemistry Technician and Supervisor.

The following corrective actions remain to be completed:

- The Chemistry Department Curriculum Review Committee (CRC) will evaluate training needs with respect to this event.
- Operations will reinforce expectations for timely communications with duty Chemistry personnel at all times.

11. Name, Address and Telephone Number of Cleanup Entities

No change.

12. Description of Sample Date, Type, Quantity and Location

No change.

13. Certification of Financial Responsibility

No change.

14. **Supplemental Information**

See the applicable revised sections for supplemental information.

15. **Any Additional Information**

Additional information will be provided upon request.

16. **Certification**

The Certification of Carl J. Fricker, Salem Plant Manager, is included as Attachment A hereto.

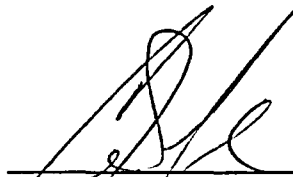
BC Site Vice President - Salem
 Plant Manager - Salem
 Director – Regulatory Assurance
 Salem Chemistry, Radwaste & Environmental Manager
 Salem Radwaste & Environmental Supervisor (S07)
 Hope Creek Radwaste & Environmental Supervisor (H15)
 General Environmental Counsel
 Jeff Pantazes
 Ed Keating
 File 2.1.1 Salem
 SCH06-056

ATTACHMENT A

**PSEG Nuclear LLC –
Salem Generating Station
Confirmation Report Certification as per NJAC 7:1E-4.11(a)**


I, Carl J. Fricker, of full age, being duly sworn according to law, upon my oath depose and say:

1. I am the Plant Manager for Salem Generating Station;
2. I certify under penalty of law that the information provided in this document is, to the best of my knowledge, true, accurate and complete. I am aware that there are significant civil and criminal penalties, including the possibility of fines or imprisonment or both, for submitting false, inaccurate or incomplete information.



Carl J. Fricker
Plant Manager
Salem Generating Station

Sworn and subscribed before me
this 30 day of June 2006.



SHERI L. HUSTON
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires 1-15-09