



MAY 19 2006

LR-E06-0247

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Administrator of Water Compliance and Enforcement
New Jersey Department of Environmental Protection
401 East State Street, 4th Floor East
PO Box 422
Trenton, New Jersey 08625-0422

**RE: PSEG Nuclear LLC - Salem Generating Station
NJPDES Permit No. NJ0005622
NJDEP Case No. 06-05-14-2325-36
Five Day Report**

Dear Sir/Madam:

In accordance with N.J.A.C. 7:14A-6.10 Noncompliance Reporting, PSEG Nuclear LLC is submitting this report concerning a discharge of water containing sodium hypochlorite through Discharge Serial Number (DSN) 488. The discharge was reported to the New Jersey Department of Environmental Protection (NJDEP) hotline and assigned case number 06-05-14-2325-36. This discharge was also reported to the Nuclear Regulatory Commission and assigned event number 42575. This report contains the following information as known at the time of this report. In accordance with the regulations, additional information regarding this discharge will be provided as it becomes available.

1. A description of the discharge, including the time of the discharge, the location of discharge, the volume of the discharge, the concentration of pollutants discharged, and the receiving water of the discharge;

On May 14th, 2006 at 20:45 Operations personnel observed water leaking from valve 1SW29 in Service Water Bay 1. At 20:50 valve 1SW27 was closed to isolate the leak. At 21:21 the Service Water Bay 1 sump pump breaker was opened terminating discharge from the building. Based on the sump pump rates it is estimated approximately 1,000 gallons was discharged to the Delaware River through DSN 488. A sample taken in the Service Water Bay 1 at 21:40 indicated 3000 ppm Total Residual Chlorine (TRC) concentration in the remaining water. A sample was taken at 23:15 from manhole #17 on DSN 488. The sample results were <0.1 ppm TRC indicating no further discharge

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2. Steps being taken to determine the cause of the permit noncompliance;

PSEG is conducting a investigation in accordance with our problem identification and resolution process. The results of this investigation that would provide additional information will follow this letter as they become available.

3. Steps being taken to reduce, remediate, and eliminate the noncomplying discharge and any damage to the environment, and the anticipated time frame to initiate and complete the steps to be taken;

After discovery, the leak was isolated. When Operations realized the building sump pump was still operating the pump was turned off which stopped the discharge. Sodium hypochlorite supply to Service Water Bay 1 was isolated at 21:25. A sample was taken at 23:15 from manhole #17 on DSN 488. The sample results were <0.1 ppm TRC indicating no further discharge. No visible impact to the environment was noted. There is not expected to be a discernable impact to the environment.

4. The duration of the discharge, including the dates and times of the commencement and, for an unanticipated bypass, the dates and times of the end or anticipated end of the discharge, and if the discharge has not been corrected, the anticipated time when the permittee will correct the situation and return the discharge to compliance;

The approximate start of the discharge is believed to be 20:45 on 05/14/2006. The discharge was stopped at 21:21. It is believed no more then 1,000 gallons reached the Delaware River. This 1,000 gallons at 3000 ppm equates to no more then 20 gallons of 15% sodium hypochlorite.

5. The cause of the noncompliance;

The cause of the noncompliance is failure of Service Water isolation valve 1SW29 with a concurrent failure of check valve 1SW30. Service Water isolation valve 1SW29 developed a leak in the side of the valve, check valve 1SW30 should have prevented sodium hypochlorite solution from being released through the leaking 1SW29 valve, but the concurrent failure of 1SW30 allowed sodium hypochlorite to flow back to the hole in the side of valve 1SW29.

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6. Steps being taken to reduce, eliminate, and prevent reoccurrence of the noncomplying discharge;

The noncomplying discharge has been eliminated. The failed valves 1SW29 and 1SW30 have been replaced. Steps to prevent reoccurrence are dependant upon the results from the cause investigation and in accordance with the regulations will be transmitted to the NJDEP within ten days after they become available.

7. An estimate of the threat to human health or the environment posed by the discharge; and

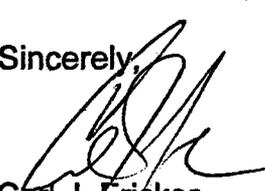
Based upon visual observation and in light of a maximum calculated volume of 20 gallons of 15% sodium hypochlorite being discharged, it is estimated there was little to no threat to human health or the environment.

8. The measures the permittee has taken or is taking to remediate the problem and any damage or injury to human health or the environment, and to avoid a repetition of the problem.

To date the permittee has eliminated the discharge, and is currently investigating the cause of the noncomplying discharge. Steps to prevent reoccurrence are dependant on the results of the investigation.

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

Sincerely,



Carl J. Fricker
Salern Plant Manager

C NJDEP
Southern Enforcement Office
One Port Center
2 Riverside Drive, Suite 201
Camden, NJ 08102
Attn: Mr. Steven Mathis

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

Delaware Emergency Management Agency
Attn.: Janet Chomiszak
165 Brick Store Landing Road
Smyrna, DE 19977

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