



FirstEnergy Nuclear Operating Company

Perry Nuclear Power Station
10 Center Road
Perry, Ohio 44081

Mark B. Bezilla
Vice President

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November 24, 2010
L-10-324

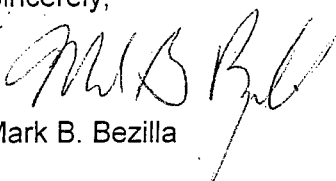
ATTN: ER Records Management – SERC Report
DERR-ER
Ohio Environmental Protection Agency
Lazarus Government Center
50 West Town Street, Suite 700
Columbus, Ohio 43215

SUBJECT:
Ohio EPA Incident No. 1010-43-2695
National Response Center Incident No. 958358 and 958362
FirstEnergy Nuclear Operating Company, Perry Nuclear Power Plant (PNPP)

In accordance with the notification requirements of OAC-3750-25-25 and in reference to a release of a hazardous substance at the Perry Nuclear Power Plant located at 10 Center Road, Perry, Lake County, Ohio, the attached written release notification is provided.

If you have any questions concerning this spill, please contact Randall Killing at (440) 280-7370 or Jerry Vinson, FirstEnergy Environmental at (330) 384-5160.

Sincerely,



Mark B. Bezilla

Attachment:
Written Release Notification

cc: Lake County LEPC
M. J. Jirousek
J. N. Vinson II
D. J. Weber
NRC Region III
NRC Resident Inspector
NRR Project Manager
NRC Document Control Desk (Docket No. 50-440)

IE23
NRC

Written Release Notification
FirstEnergy Nuclear Operating Co.

Ohio EPA Incident No. 1010-43-2695
National Response Center Incident No. 958358 and 958362

Release Site: Perry Nuclear Power Plant (PNPP)
10 Center Road
Perry, Lake County, Ohio

Release Date: October 28, 2010

Site Coordinator: Randall Killing

Telephone: (440) 280-7370

1. General

- At approximately 1740 hours, a Sodium Hypochlorite release of 130 gallons due to a break in an underground pipe was discovered and reported to site personnel.
- The release was discovered by an irregular decrease in the volume of the Sodium Hypochlorite storage tank.
- Subsequent investigation has revealed that an additional 215 gallons of Sodium Hypochlorite was released prior to noting the change in tank level.
- The Sodium Hypochlorite tank was immediately isolated and the level stabilized.
- Further troubleshooting verified the leak location to be underground.
- The duration of the release is estimated to be 50.5 hours.

2. Product Released

- Sodium Hypochlorite (12.5% solution) CASRN 7681-52-9.

3. Environmental Impact

- 345 gallons of Sodium Hypochlorite leaked into the ground from an underground pipe.
- The ground consists of sand and other class A fill materials.
- The area of impact is located approximately 5 feet underground and the surface is partially covered with asphalt.

4. Monitoring and Detection

- PNPP is periodically sampling ground water monitoring wells that are in close proximity to the release.
- Results from the monitoring wells have not indicated that the release has migrated.

5. Mitigation, Containment Information

- The Sodium Hypochlorite is contained underground on site.
- PNPP's plan to remove contamination will involve excavation of contaminated materials, neutralization of contaminated soil with Sodium Sulfite, and inspection/ repair of exposed piping.

6. Preventative Measures

- FirstEnergy Corp. has spill response plans, spill coordinators, and spill response personnel, along with standing purchase orders with experienced professional contractors to control and cleanup spills of this nature.
- The PNPP is conducting a corrective action program investigation to prevent any similar occurrence.
- The Sodium Hypochlorite storage tank has been isolated and will remain isolated until all repairs are complete.

7. Health Risks

- There was no risk to human health or safety.

8. Applicable Permits

- None.

9. Chronological Summary Review of Incident

October 28, 2010

- 1330 hrs: PNPP employee who had been performing water chlorination under the NPDES Permit No. 3IB00016*ID noticed an unusual decrease in the Sodium Hypochlorite Tank via the tank level log and informed his supervisor.
- 1400 hrs: PNPP Supervisor reported to the area, verified the level log discrepancy, walked down the chlorination system and then isolated the Sodium Hypochlorite storage tank from the system piping to help identify why the tank level was decreasing.
- 1530 hrs: Supervisor reported the Sodium Hypochlorite tank level was unchanged from the time the tank was isolated.
- 1740 hrs: Supervisor restored the system piping to verify the suspected leak location and immediately re-isolated the tank and reported the suspected piping leak to the PNPP Control Room.
- 1751 hrs: National Response Center was notified.
- 1757 hrs: Perry Fire Department was notified.
- 1808 hrs: Ohio EPA was notified.
- 1825 hrs: Lake County LEPC was notified.

10. Associated Reports and Documents

- None.

11. Extenuating Circumstances Causing the Spill

- An underground pipe, approximately 5 feet underground and partially covered with asphalt, which transports Sodium Hypochlorite from PNPP's Service Water Pump House to an adjacent building, broke and released approximately 345 gallons underground.