

Barry S. Allen  
Vice President440-280-5382  
Fax: 440-280-8029September 24, 2007  
PY-CEI/OEPA-0476LOhio Environmental Protection Agency  
Northeast District Office  
Attention: Mr. Michael Stevens  
2110 E. Aurora Rd.  
Twinsburg, OH 44087-1969

Ladies and Gentlemen,

On September 19, 2007, the Perry Nuclear Power Plant (PNPP) discovered an occurrence that was reportable in accordance with the Ohio Environmental Protection Agency (OEPA) Permit No. 3IB00016\*ID. The report was submitted due to a discharge to the "Major Stream" diversion (also referred to as "Red Mill Run"). The initial report was submitted to the Ohio Environmental Protection Agency by phone on September 20, 2007, at 1437 hours.

In accordance with Permit No. 3IB00016\*ID, Part III, Section 12.B, the following information was reported on September 20, 2007:

1. **The times at which the discharge occurred, and was discovered:** Time of discharge is unknown. Cloudy water was discovered in "Major Stream" diversion at approximately 1525 hours on September 19, 2007.
2. **The approximate amount and the characteristics of the discharge:** The amount of discharge is unknown. At the time of discovery, approximately 10 to 15 gallons of water, per minute, were observed discharging from the storm drain. On September 20, 2007, the observed discharge from the storm drain was approximately 1 to 2 gallons of water per minute.  
  
The pH of the stream was 11.2 standard units (SU) at 1650 hours on September 19, 2007 with white powdery deposition on the stream bed. At 1000 hours on September 20, 2007, a sample taken for pH indicated 8.48 SU.  
  
A number of small stressed fish were observed at time of discovery, along with approximately 5 to 10 small dead fish. No frogs, crayfish, or other local aquatic life forms were observed to have been negatively impacted.
3. **The stream affected by the discharge:** "Major Stream" diversion (also referred to as "Red Mill Run").
4. **The circumstances which created the discharge:** The source of the high pH and white sediment is unknown at this time and an investigation is in progress.
5. **The names and telephone numbers of the persons who have knowledge of these circumstances:** Liz Ryan or Paul Kowalski (440) 280-5536/5063.
6. **What remedial steps are being taken:** Clean Harbors Incorporated (CHI) was contacted for clean-up assistance. CHI representatives inspected the affected area and provided recommendations for clean-up remediation. The recommendations are currently being evaluated.
7. **The names and telephone numbers of the persons responsible for such remedial steps:** Paul Kowalski (440) 280-5063.

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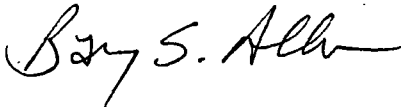
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In accordance with Permit No. 3IB00016\*ID, Part III, Section 12.C, the following information is provided:

1. **The limitation(s) which has been exceeded:** The discharge limitation for pH at the Major Stream diversion. The maximum for pH is 9.0 and minimum is 6.5 SU.
2. **The extent of the exceedance:** Approximately 25,200 gallons of accumulated ground and rain water from the Unit 2 Turbine Power Complex basement, with a pH level above the permit limit, were pumped to the Major Stream diversion.
3. **The cause of the exceedance:** Pumping accumulated ground and rain water inleakage, that was subsequently found to contain high pH, from the Unit 2 Turbine Power Complex basement to the storm drain. Although the final cause analysis has not been fully completed, it appears that the high pH in the water came from calcium constituents that were leached from the building concrete of the abandoned Unit 2 Turbine Power Complex basement. The calcium constituents were dissolved and entrained into the water accumulated in these abandoned construction facilities.
4. **The period of the exceedances including exact dates and times:** The discharge started at approximately 1000 hours on September 19, 2007, and lasted approximately 12 hours (i.e., to approximately 2200 hours on September 19, 2007).
5. **If uncorrected, the anticipated time the exceedance is expected to continue:** The most likely cause of this exceedance stopped at approximately 2200 hours on September 19, 2007. At 1000 hours on September 20, 2007, a sample from the Major Stream for pH indicated 8.48 SU.
6. **Steps taken to reduce, eliminate, and/or prevent recurrence of the exceedance:** This issue has been documented in and is being addressed by the FirstEnergy Nuclear Operating Company (FENOC) Corrective Action Program (Condition Report 07-26811). An investigation and subsequent remedial steps will be taken to correct deficiencies for this event. Pumping of the Unit 2 Turbine Power Complex basement to the storm drain without Chemistry/Environmental sampling has been stopped. Site specific procedures and training direct personnel to first obtain permission from Chemistry/Environmental prior to discharging to a storm drain.

If you have any questions or require additional information, please contact Ms. Liz Ryan or Mr. Paul Kowalski at (440)-280-5536/5063.

Sincerely,



Enclosures

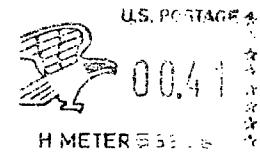
cc: NRC Region III  
NRC Resident Inspector  
NRC Project Manager  
NRC Document Control Desk (Docket No. 50-440)  
Lake County Emergency Planning Committee  
Perry Township Fire Department

**FENOC**

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