

Pennsylvania Power & Light Company

Two North Ninth Street • Allentown, PA 18101 • 215/770-5151

April 30, 1984

Commonwealth of Pennsylvania
Department of Environmental Resources
Bureau of Water Quality Management
Wilkes-Barre Regional Office
90 East Union Street, Second Floor
Wilkes-Barre, PA 18702

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SUSQUEHANNA STEAM ELECTRIC STATION
DISCHARGE MONITORING REPORT (DMR)
NPDES PERMIT NO. PA 0047325 AND
NPDES PERMIT NO. PA 0027448
CCN 741326 FILE 012-4
PLE-4957

Attached are the completed copies of the NPDES Monitoring Reports for the month of March 1984 for all waste discharges at the subject location. The Discharge Monitoring Forms are being submitted in accordance with the requirements of our NPDES permit.

Sewage Treatment Plant (NPDES Permit No. 0027448) outfall No. 079 noncompliances for March were:

1. The samples collected on March 6 for Total Suspended Solids (TSS) exceeded the average concentration limit and quantity limits. A concentration value of 240 mg/liter lead to a 61.6 lbs/day discharge. These high values caused the monthly average values to exceed the permit limits even when averaged with samples collected on March 20, 1984, (28 mg/liter and 5.9 lbs/day). The high solids also caused the monthly average TSS % removal to be only 58.6%. (The % removal for March 6 was 28% while on March 20, it was 89.2%).
2. Excessive flow to the STP from about 10:00 p.m. on March 21, 1984 to about 11:00 a.m. on March 22, 1984 caused probable violations of the final discharge limits on all parameters. During this episode, an estimated 100,000 gallons of water was discharged through the plant. Virtually all of this water flowed through aeration bed #1 from the surge tank overflow pipe. This high flow caused an excess of solids to be carried through the clarifier and over the discharge weir. The cause was discovered shortly after finding the high flows and was quickly terminated. The surge tank excess flow to bed #1 stopped around 11:00 a.m. on March 22, 1984. Aeration beds #2 and #3 were kept under normal flows so they would not be wiped out. Some sludge was wasted from #2 and #3 clarifiers to #1 to bring the 30 minute mixed liquor suspended solids in tank #1 back up.

Operational permit (NPDES Permit No. 0047325) had no noncompliances for March 1984. There were, however, sampling equipment problems. The Cooling Tower Blowdown (outfall 041) sampler (located at the STP) was out of service from

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March 6, 1984 through April 3, 1984. Grab samples were collected daily from the cooling tower basins in lieu of blowdown samples. These samples should be representative of the actual blowdown except for chlorine, since these samples are above the SO₂ dechlorination sparger. In the case of chlorine, only the first five days of the month are used for reporting the chlorine limits.

If you have any questions, contact me at (215) 770-7889.

Respectfully yours,



Jerome S. Fields
Sr. Environmental Specialist-Nuclear

JSF/dml

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Attachments

cc: EPA, Region III

A. Schwencer