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ACCESSION NBR: 8808190171 DOC. DATE: 88/08/12 NOTARIZED: NO DOCKET #
 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylvania 05000387
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylvania 05000388
 AUTH. NAME AUTHOR AFFILIATION
 FIELD, J.S. Pennsylvania Power & Light Co.
 RECIPIENT NAME RECIPIENT AFFILIATION
 BREZENSKI, R.S.

SUBJECT: NPDES noncompliance notification: on 880807 3,300 gallons of concentrated sulfuric acid discharged into storm drains. R

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	NRR/DREP/RPB 10		4	4		NUDOCS-ABSTRACT		1	1	
	OGC/HDS2		1	0		<u>REG-FILE</u> 01		1	1	
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PP&L

Susquehanna Steam Electric Station
P.O. Box 467
Berwick, PA 18603
Phone: (717) 542-3300

August 12, 1988

Mr. Ronald S. Brezinski
Operations Manager
Bureau of Water Quality Management
Pennsylvania Department of
Environmental Resources
90 E. Union Street, 2nd Floor
Wilkes-Barre, PA 18701

SUSQUEHANNA STEAM ELECTRIC STATION
ACID LEAK
NPDES PERMIT NO. PA 0047325
CCN 741326 FILE R9-8C
PLES - 3473

Dear Mr. Brezinski:

In accordance with the five day written requirements of the Susquehanna SES NPDES Permit No. PA 0047325, Part A, c(1), the Pennsylvania Power and Light Co. (PP&L) is providing information on a recent sulfuric acid pipe leak. PP&L's Environmental and Chemistry Group became aware of this incident at approximately 0030 hours on August 8, 1988 and reported it to your office at 0225 hours the same day.

The leak was first noticed around 2100 hours on August 7, 1988 in the area of the Unit 1 service water and acid injection lines west of the Circulating Water Pump House (Figure 1). It was determined that concentrated sulfuric acid leaked from the acid injection line diluted at 40-1. This acid is used for circulating water system treatment. An estimated 3,300 gallons of concentrated sulfuric acid, or 132,000 gallons of 40-1 sulfuric acid solution (pH 1.5), discharged into the storm drains.

Once becoming aware of the leak, bags of soda ash (sodium carbonate) were dumped over the affected pipe area and also into various locations along the storm drain.

Sampling of storm drain discharge for pH began on the evening of August 7, 1988 and is continuing at this time. Also, tests for iron, manganese, and sulfates have been taken. Since the storm drain discharges into a recreation pond (Lake Took-a-while), pH samples were also taken.

Since values for storm drain discharge at the Peach Stand Pond were measured at 3.5, soda ash was added directly to the drain. Soil samples collected near the leak varied from around 1.5 to about 8. Soda ash was added to the soil as

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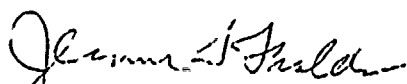
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appropriate for neutralization. The high pH values are probably due to limestone and concrete in the vicinity of the pipe. The pH values in Lake Took-a-while are between 6.7 and 9.2 which are within normal range. There are no signs of any fish being killed from this incident. There has been, however, some precipitation of iron in the pond inlet.

PP&L will continue to work with Mr. Robert Gadinski and Mr. Kevin Augustine of the PaDER. We will continue to keep you updated on the status of this leak remediation.

If you have any questions please contact John B. Hansell at (717) 542-3800.

Very truly yours,



Jerome S. Fields
Sr. Environmental Scientist-Nuclear

/ml

cc: Dr. W.R. Butler NRC
 K. Messerle PA Fish Commission
 D.J. Lamereaux PaDER

