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 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv 05000388  
 AUTH. NAME AUTHOR AFFILIATION  
 KEISER, H. W. Pennsylvania Power & Light Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 HODICK, H. G. Pennsylvania, Commonwealth of

SUBJECT: Responds to 860304 JS Fields ltr re corrective actions taken for treatment of low vol waste stream discharged from reactivator. Permanent movable shell flat bed filter unit Operated to correct total suspended solids from Outfall 271.

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MEMORANDUM FOR THE DIRECTOR, FBI

DATE: 10/15/54

RE: [Illegible]

[Illegible body text]

E. Adensan



Pennsylvania Power & Light Company

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

Harold W. Keiser  
Vice President-Nuclear Operations  
215/770-7502

March 19, 1986

Mr. Henry G. Hodick  
Water Quality Compliance Specialist  
Bureau of Water Quality Management  
Pennsylvania Department of Environmental Resources  
90 East Union Street - Second Floor  
Wilkes-Barre, PA 18701-3296

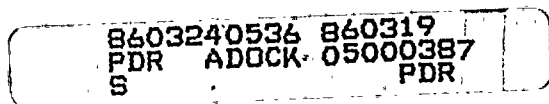
SUSQUEHANNA STEAM ELECTRIC STATION  
OUTFALL #271 - TOTAL SUSPENDED  
SOLIDS VIOLATIONS  
NPDES PERMIT NO. PA-0047325  
CCN 741326 FILE 012-4  
PLE- 8146

Dear Mr. Hodick:

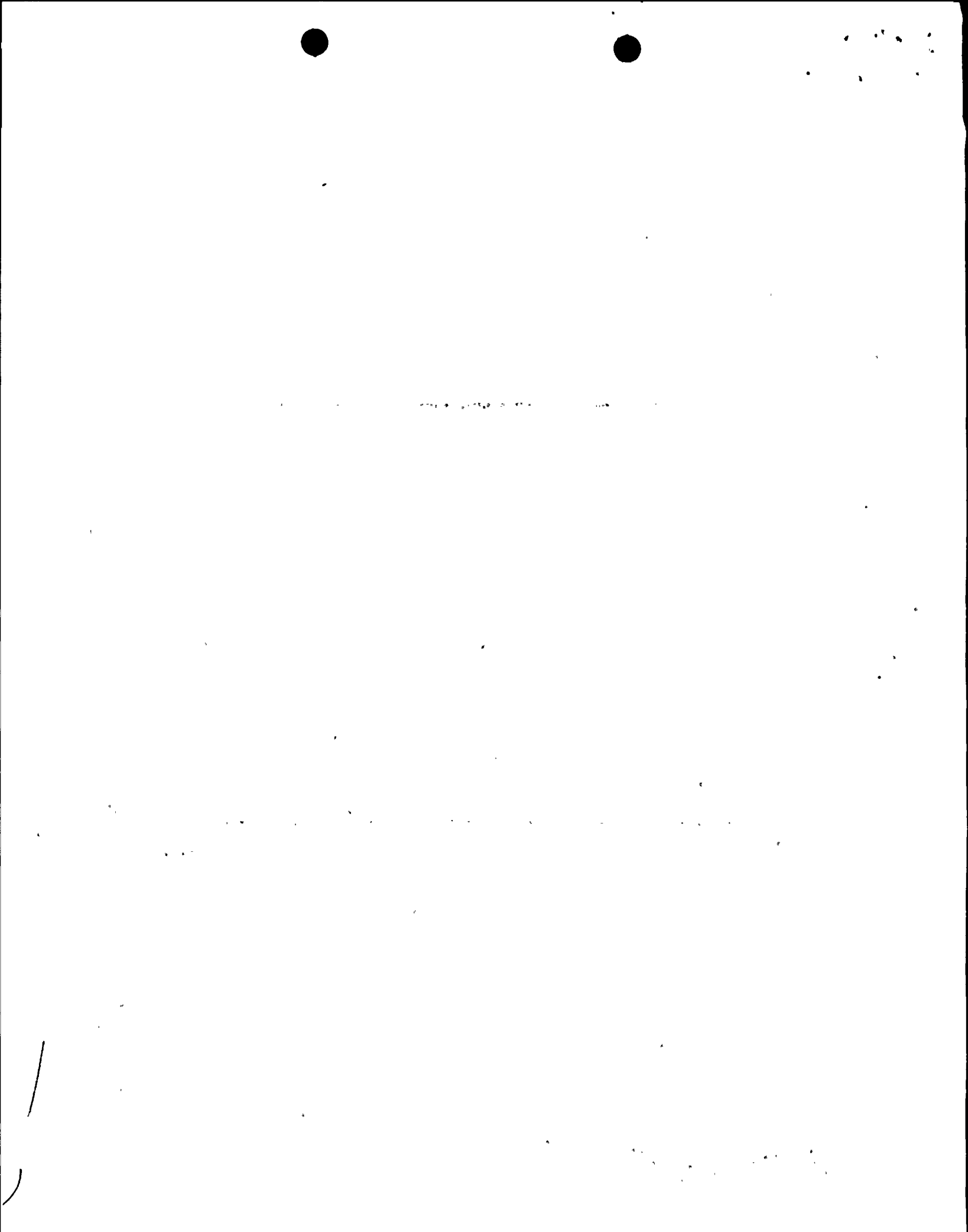
The Pennsylvania Power and Light Company (PP&L) is responding to the letter from the Pennsylvania Department of Environmental Resources (PA DER) to J. S. Fields, dated March 4, 1986. Your letter requested the status of corrective actions taken for treatment of the low volume waste stream discharged from the reactivator at the Susquehanna SES. As PP&L indicated in its NPDES permit application, this waste stream is an internal discharge directed into the circulating water system which then flows into the cooling tower basin. Water from the cooling tower basin is then redirected back to the station for use. This discharge from the cooling tower basin Outfall #071 has been in compliance with this NPDES permit. PP&L has provided this information in monthly discharge monitoring reports to your office.

To correct the total suspended solids (TSS) limit violation from Outfall #271, PP&L has:

1. Operated a permanent movable shell flat bed filter unit.
2. Installed temporary sand and charcoal filters.



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PP&L has spent considerable funds and time on engineering and design reviews, equipment rental, and labor and maintenance in order to comply with Outfall #271 TSS limits. To date we have not been successful, but it is our commitment that we will come into compliance.

In the interim, PP&L has intensified its efforts to make the filters work, as well as review other options to correct this noncompliance. These options are listed as follows:

1. Determine if the permanent filter can in fact be operated.
2. Continue to upgrade the temporary filter system to determine what media and treatment volume requirements are necessary to make the discharge comply with the NPDES permit TSS limits.
3. Use of well water instead of river water for station systems. The use of the reactivator and Outfall #271 would then be eliminated. Additional review of groundwater availability and water chemistry data are necessary prior to using the well water on a permanent basis.
4. Discharge of reactivator waste stream to the sewage treatment plant (STP). The STP has similar TSS limits of 30 mg/l monthly average and 60 mg/l instantaneous maximum. Using the STP to treat the reactivator waste stream is an acceptable practice and a two month test program approved by Mr. Stanley Lehman, Water Quality Specialist Supervisor of the PA DER, will determine the feasibility of this option.
5. Modification of S-2 sedimentation pond Outfall #070, or installation of a low volume waste basin. The S-2 basin would have to be modified to prevent the present volume of site and parking lot runoff entering it. If this was achieved, reactivator discharge solids could settle in the basin. Installation of a new basin for this and possibly other waste streams with high solids content could also be established. This option would require engineering studies to determine solids settling requirements.
6. Pursue additional pretreatment methods prior to filtration of this discharge. Chemistry and engineering analyses would be required.
7. Establish a contract with a water treatment vendor to provide quality water for station use and make certain that any effluents meet NPDES permit limits.

All options listed above are being reviewed by PP&L. Options 1, 2, 4 and 7, are near term options that are being reviewed in parallel. Options 3, 5 and 6 are long term options and will also be reviewed. PP&L will provide you with a

monthly status report of actions taken to get Outfall #271 TSS discharge into compliance.

If you have any questions or concerns regarding our action plans, please contact J.S. Fields at (215) 770-7889.

Respectfully yours,

*H. W. Keiser /gt*

H.W. Keiser

/cg

cc: E. Adensam NRC  
S. Lehman Pa. DER

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COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL RESOURCES

Bureau of Water Quality Management  
Wilkes-Barre Regional Office  
90 East Union Street - 2nd Floor  
Wilkes-Barre, PA 18701-3296  
(717) 826-2553

March 4, 1986

RECEIVED  
MAR. 5 1986  
NUCLEAR SUPPORT

Pennsylvania Power & Light Company  
c/o Mr. J. S. Fields  
Senior Environmental Scientist-Nuclear  
Two North Ninth Street  
Allentown, PA 18101

Dear Mr. Fields:

RE: Industrial Waste  
NPDES Permit No. PA-0047325  
Susquehanna Steam Electric Station  
Salem Township  
Luzerne County

A review of the Discharge Monitoring Reports (DMR's) submitted to this office for the operation of the industrial waste treatment facilities during the last seven months of 1985, has shown that the effluent limit established for Total Suspended Solids at Outfall #271 by NPDES Permit No. PA-0047325 has been exceeded on a regular basis.

The following is a listing of the months, permit limit and values reported on the DMR's by Pennsylvania Power & Light Company:

	<u>TSS Permit Limit</u> <u>(Monthly Average)</u>	<u>Reported Values</u> <u>on DMR's</u>
June	30 mg/l	1005 mg/l
July	30 mg/l	484 mg/l
August	30 mg/l	1684 mg/l
September	30 mg/l	501 mg/l
October	30 mg/l	780 mg/l
November	30 mg/l	323 mg/l
December	30 mg/l	441 mg/l

The purpose of this letter is to formally advise you that the discharge of inadequately treated industrial waste into the waters of the Commonwealth is in violation of the terms and conditions of the permit and the Clean Streams Law,





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Pennsylvania Power & Light Company  
c/o Mr. J. S. Fields

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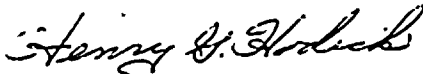
March 4, 1986

the Act of June 22, 1937, P.L. 1987, as amended. Any violation of the Clean Streams Law is subject to penalties provided therein, with each day of continued violation constituting a separate offense. In order to comply with the permit and the law, the TSS problem must be resolved.

The Environmental Protection Agency classifies Pennsylvania Power & Light Company (Susquehanna Steam Electric Station) as a major industrial waste discharger. In addition, as a result of the chronic TSS violations reported on the DMR's, this case is considered to be in Significant Non-Compliance as determined by EPA. Significant Non-Compliance is used to denote priority violations and indicates the need for enforcement action unless the problems are corrected.

Therefore, you are expected to notify this office, in writing, within fifteen (15) days from the date of this letter as to the steps you have taken or intend to take in order to resolve the TSS problem and attain compliance with the permit. The violation cannot be allowed to continue. Failure to comply may result in further enforcement action.

Very truly yours,



Henry G. Hodick  
Water Quality Compliance Specialist

HGH:cam

cc: Regional Director  
Permits & Compliance  
J. Jefferson  
M. Carmon  
H. Hodick  
R. File  
Chron.



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