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 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylv      05000387  
 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylv      05000388  
 AUTH. NAME      AUTHOR AFFILIATION  
 FIELDS, J. S.      Pennsylvania Power & Light Co.  
 RECIP. NAME      RECIPIENT AFFILIATION  
 HODICK, H. G.      Pennsylvania, Commonwealth of

SUBJECT: Provides status of short & long-term options developed to correct total suspended solids violations at Outfall 271. Task force established.

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NOTES: 1cy NMSS/FCAF/PM.      LPDR 2cys Transcripts.      05000387  
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ACCESSION NR. 880820301 DOC DATE: 880401  
 FACILITY: 13X (Electric Station) (Electric Station)  
 50 388 Bangladesh Electric Station Ltd. & Bangladesh  
 AUTHOR: P. J. L. J. O'NEILL  
 TITLE: Bangladesh Power & Light  
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SUBJECT: Present status of short & long term plans for  
 control of air pollution in Bangladesh.  
 Text form attached.

DISTRIBUTION CODE: COOL COPIES RECEIVED BY  
 TITLE: Public Comment on Environmental Statement

NOTE: For INFORMATION: LTR Reg. Transaction: 01-000007  
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**Pennsylvania Power & Light Company**

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

April 21, 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  
UPDATE OUTFALL #271 - TOTAL SUSPENDED  
SOLIDS VIOLATIONS  
NPDES PERMIT NO. PA-0047325  
CCN 741326 FILE R9-8A  
PLE-8245

Dear Mr. Hodick:

Pennsylvania Power and Light Co. (PP&L) indicated in letter PLE-8146, March 19, 1986, to the Pennsylvania Department of Environmental Resources (Pa. DER), that short and long term options have been developed to correct noncompliances at Outfall #271. A task force was established to resolve this problem. The status of these options is as follows:

Option 1: Determine if the permanent filter can in fact be operated.

Response: Both technical and economic evaluations of start-up and operation of the existing flat bed unit are being conducted by the task force.

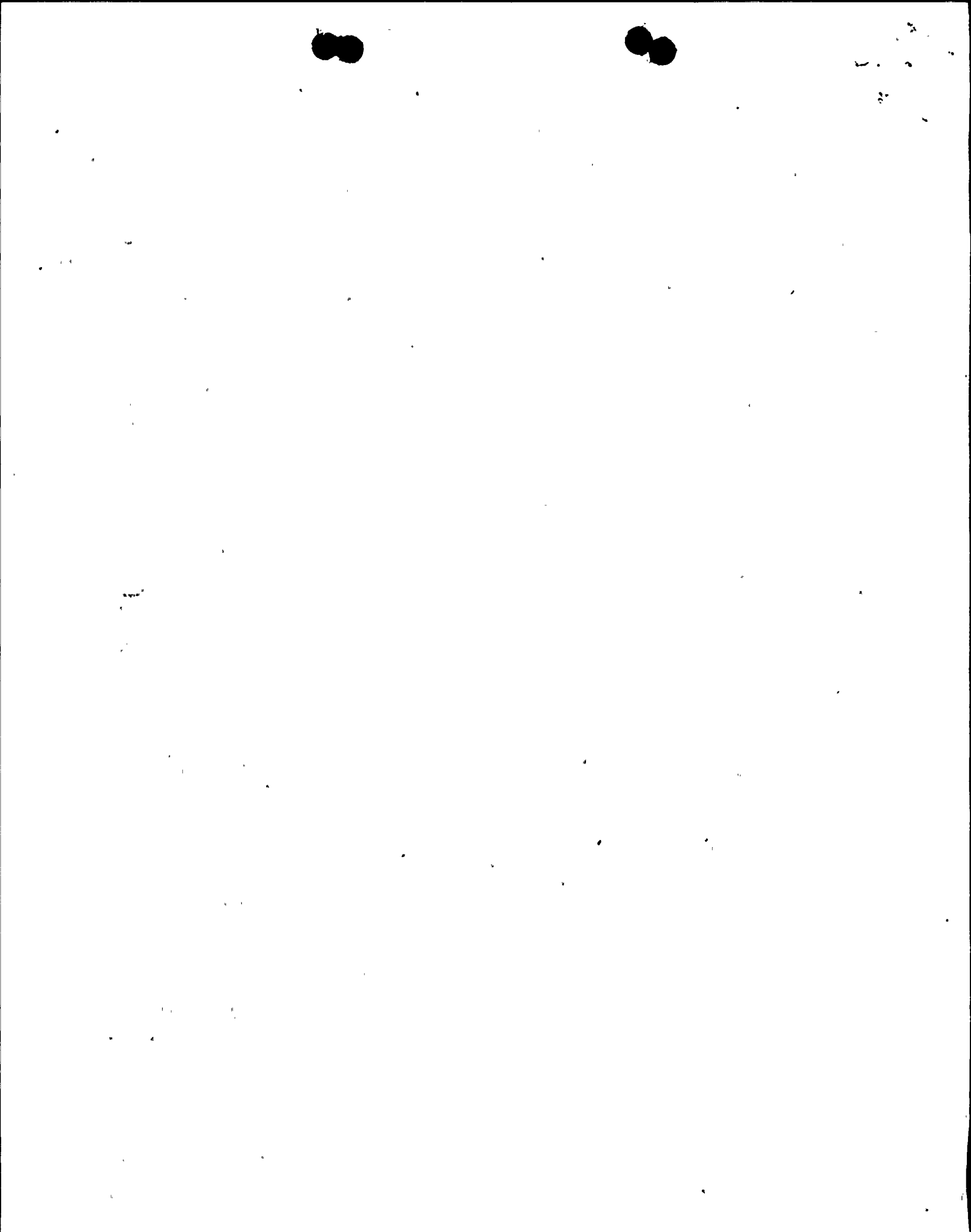
Option 2: Continue to upgrade the temporary filter system to determine what media and treatment volume requirements are necessary to make the discharge comply with the NPDES permit TSS limits.

Response: Use of the temporary filter system was discontinued after PP&L spent considerable funds and time on this option. Numerous attempts were made to make this system operational. However, each time the sand and charcoal filters become inoperable after only a few hours.

Option 3: Use well water instead of river water for station systems. The use of the reactivator/clarifier and Outfall #271 would only be for back-up water supply.

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Response: PP&L requested and has received a proposal from an environmental consulting firm to evaluate the impact of groundwater withdrawal from the site aquifer. The cost of this survey, system modification costs and the technical issues associated with well-water system implementation are being evaluated by the task force.

Option 4: Discharge of reactivator waste stream to the sewage treatment plant (STP) as part of a two month test was initiated.

Response: On March 21, 1986 the discharge from the reactivator/clarifier was directed to the STP. With the exception of the sample collected on April 9, 1984 of 84 mg/l, all TSS samples have been below the 30 mg/l, monthly average. The reason for the high TSS on April 9 was a pressure relief valve problem in the clarified water system causing a discharge of 60,000 gpd from the clarifier instead of the expected 3,000 - 5,000 gpd. On April 10, 1986 the reactivator discharge was temporarily directed to the Outfall #271 while the relief valve problem was corrected. The repair was completed late on April 11, 1986 and the discharge was once again sent to the STP. Since this date there have not been any additional TSS violations at the STP.

Option 5: Modification of S-2 sedimentation pond, Outfall #070, or installation of another low volume waste basin is being reviewed by the task force. The S-2 basin would have to be upgraded in order to treat the clarifier discharge.

Response: An economic and technical review of the possibility of upgrading the S-2 pond or building of a new settling pond to treat the clarifier waste stream has been initiated.

Option 6: Pursue additional pretreatment methods prior to filtration of this discharge.

Response: No additional pretreatment of this discharge is being considered at this time.

Option 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.

Response: Vendor costs for water treatment have been requested.

Options also being reviewed which were not listed in letter PLE-8146 include:



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Option 8: Use of sand drying beds to collect solids.

Response: An evaluation is being undertaken to determine the economic and technical feasibility of installing sand drying beds.

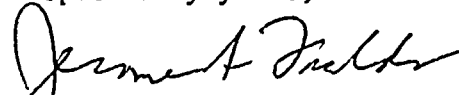
Option 9: Tank truck collection of the waste stream and discharge of waste into a low volume basin at another facility.

Response: A review of permitting requirements and costs to accomplish this activity has been initiated.

In the interim while looking for a permanent solution to treat the clarifier discharge waste stream, we are continuing to discharge to the STP (Option 4). Options 1, 7 and 9 are considered short-term while 3, 5 and 8 are considered long-term options. We will continue to provide monthly reports until a permanent treatment system is selected and compliance is demonstrated.

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

Respectfully yours,



Jerome S. Fields  
Sr. Env. Scientist-Nuclear

JSF/sml

jsfltd004859i

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