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 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  
 LEHMAN, S. Pennsylvania, Commonwealth of

SUBJECT: Submits Status Rept 2 re reactivator/clarifier blowdown treatment. Total suspended solids consistently met 30 mg/l, monthly average. Table 1, "Total suspended solids Data" for 860418-0516 encl.

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NOTES: 1cy NMSS/FCAF/PM. LPDR 2cys Transcripts. 05000387  
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INTERNAL:	ACRS	20	6	6	ADM/LFMB		1	0
	ELD/HDS4		1	0	NRR BWR ADTS		1	1
	NRR PWR-A ADTS		1	1	NRR PWR-B ADTS		1	1
	<u>REG FILE</u>		1	1	RGN1		1	1
EXTERNAL:	24X		1	1	LPDR	03	2	2
	NRC PDR	02	1	1	NSIC	05	1	1
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Very truly yours,  
[Signature]

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10/16/50	1200	WASH DC	MEETING
10/16/50	1800	WASH DC	DEPARTURE
10/17/50	0700	WASH DC	ARRIVAL
10/17/50	1000	WASH DC	MEETING
10/17/50	1400	WASH DC	DEPARTURE



**Pennsylvania Power & Light Company**

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May 22, 1986

Mr. Stanley Lehman  
Water Quality Specialist Supervisor  
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  
SEWAGE TREATMENT PLANT  
REACTIVATOR/CLARIFIER BLOWDOWN TREATMENT  
STATUS REPORT #2  
CCN 741326 FILE R9-8A  
PLE- 8338

Dear Mr. Lehman:

At the May 15, 1986, Pa DER inspection of the NPDES program at the Susquehanna SES, the Pa DER had an opportunity to review the reactivator/clarifier blowdown test program at the sewage treatment plant (STP). As a result of this review, it was agreed that the Pa DER would allow blowdown from the reactivator/clarifier to be directed to the STP during an additional two month extension of the test program. The total suspended solids (TSS) violations of the NPDES permit have been significantly decreased by directing this blowdown to the STP. To eliminate TSS violations at the STP, PP&L has 1) modified the clarified water pressure relief system to prevent high bypass flows from entering the reactivator blowdown sump, and 2) upgraded STP operating procedure to allow preliminary removal of reactivator blowdown solids from the first surge tank.

The modification to the clarified water system and the operating procedure changes at the STP were initiated on May 1, 1986. Since that time, the TSS effluent from the STP has consistently met the 30 mg/l, monthly average. Table 1 (attached) includes test information from April 18 through May 16, 1986.

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May 22, 1986

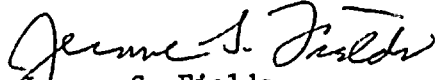
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PLE- 8338  
FILE-R9-8A

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

Respectfully yours,

  
Jerome S. Fields  
Senior Environmental Scientist-Nuclear

JSF/amc

jsflte005070i

cc: D. Agustini Pa DER  
H. G. Hodick Pa DER  
E. Adensam NRC

Attachment

TABLE 1  
 SUSQUEHANNA SES  
 SEWAGE TREATMENT PLANT  
TOTAL SUSPENDED SOLIDS DATA

Sample Collection Dates	Influent mg/l	Effluent <sup>(1)</sup> mg/l	Percent <sup>(2)</sup> Reduction %
4/18-19/86	445	54	88
4/22-23/86	340	34	90
4/29-30/86 <sup>(3)</sup>	285	141	51
MODIFIED PRESSURE RELIEF SYSTEM AND UPGRADED STP OPERATION <sup>(4)</sup>			
5/1-2/86	1270	19	99
5/6-7/86	430	10	98
5/8-9/86	10,000	7	99.9
5/13-14/86	235	4.5	98
5/15-16/86	300	5.5	98

- NOTES:
- (1) Effluent limits 30 mg/l - average, 60 mg/l - Max
  - (2) Percent reduction limit at least 85%
  - (3) Discharged 60,000 gpd to STP - pressure relief valve problems. Normal discharge is 3,000 - 5,000 gpd.
  - (4) A modification was made to the clarified water system pressure relief valve to reroute the drain line away from the reactivator blowdown sump. STP operation was upgraded to allow reactivator/clarifier solids collected on the bottom of the first surge tank to be routed through bed #1 directly to the sludge holding tank for dewatering. The sludge holding tank supernatant is returned to the surge tank and bed #1 clarifier effluent combines with the effluent from bed #4 in the chlorine contact tank prior to discharge from the STP.