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ACCESSION NBR: 8911140046 DOC. DATE: 89/11/03 NOTARIZED: NO DOCKET #
 FACIL: 50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylvania 05000388
 AUTH. NAME AUTHOR AFFILIATION
 FIELDS, J.S. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 LEHMAN, S.J. Pennsylvania, Commonwealth of

SUBJECT: Provides chemical analyses of plant condenser water box waste stream discharge per 891004 telcon request. R

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	NRR/DEST/SGB 8D	1 1	NRR/DREP/RPB 10	2 2	S
	NUDOCS-ABSTRACT	1 1	OC/LFMB	1 0	
	OGC/HDS2	1 0	<u>REG FILE</u> 01	1 1	
	RGN1 DRSS/RPB	1 1			
EXTERNAL:	EG&G SIMPSON, F	2 2	LPDR	1 1	
	NRC PDR	1 1	NSIC	1 1	
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Pennsylvania Power & Light Company

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

November 3, 1989

Mr. Stanley J. Lehman
Water Quality Specialist Supervisor
Pennsylvania Department of Environmental Resources
90 East Union Street - Second Floor
Wilkes-Barre, PA 18701-3296

SUSQUEHANNA STEAM ELECTRIC STATION
UPDATE OF UNIT 2 CONDENSER WATER BOX CLEANING DISCHARGE
CCN 741326 FILE R9-8A
PLE-11966

Dear Mr. Lehman:

The Pennsylvania Power and Light Company (PP&L) is providing the Pennsylvania Department of Environmental Resources (PaDER) with chemical analyses of the Unit 2 Condenser Water Box waste stream discharged to the Susquehanna SES Sewage Treatment Plant. This information was requested during our October 4, 1989, telephone conversation.

During the Susquehanna SES Unit 2 refueling outage, one of the outage activities was removing corrosion products from the Unit 2 Condenser Water Box in preparation for applying a protective coating. The method used to clean the water box was sandblasting it with a coal slag abrasive. A vacuum system was then used to remove the spent abrasive and corrosion products from the water box. The bulk of the abrasive material was disposed of in a dumpster, however, some of the dust and fine particulates collected in the vacuum pump seal water. The seal water supply was a 5-10 gallon per minute flow of domestic water to the vacuum pump. The resultant waste stream was discharged to the Sewage Treatment Plant at a rate of less than five gallons per minute.

Samples of this filter waste stream were collected on September 28 and October 4, 1989. The September 28 sample results were 41.3 mg/l total suspended solids, pH of 8.2, and oil and grease of 0.7 mg/l. On October 4, 1989, a sample was collected and subsequently analyzed for heavy metals and total suspended solids. The results of this sample are attached. These data show that the waste stream is not toxic and below drinking water limits.

Beginning on October 9 and ending on October 13, this waste stream was discharged to the Susquehanna SES Sewage Treatment Plant. During this period, there was no adverse impact observed at the Sewage Treatment Plant.

As you recommended in your October 6, 1989 letter, it would be useful to install a holding basin on site to treat solids produced from this and other similar activities. PP&L is planning to evaluate this option.

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November 3, 1989

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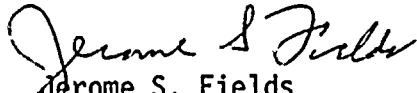
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PLE-11966
FILE R9-8A

Current plans are to complete the condenser coating work on the Unit 2 Condenser Water Box during the next Unit 2 outage in 1991. The Unit 1 Condenser Water Box cleaning is scheduled to begin in September 1990. We will contact you prior to these activities should similar approvals be necessary.

We appreciate the PaDER support for this water box maintenance activity. If you have any questions, please call me at (215) 770-7889.

Sincerely yours,



Jerome S. Fields
Sr. Environmental Scientist-Nuclear

jsf/ltj8705i(25)

cc: NRC Document Control Desk
NRC Region I
Mr. G. S. Barber, NRC Sr. Resident Inspector
Mr. M. C. Thadani, NRC Project Manager



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Lancaster Laboratories INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 656-2301

LLI Sample No. WW 1445262

PP&L Company - Hazleton
Cedar & Buttonwood Streets
Hazleton, PA 18201

Date Reported 10/24/89
Date Submitted 10/ 6/89
Discard Date 12/24/89
Collected by JSF
P.O. B-21091
Rel. 55-07-89

Susquehanna SES Water Box Discharge Sample
Collected on 10-04-89 at 1410 by JF/MY.

ANALYSIS	RESULT AS RECEIVED	LIMIT OF QUANTITATION	LAB CODE
Total Suspended Solids	26. mg/l	4.	020601300P

1 COPY TO PP&L Company - Hazleton
1 COPY TO PP&L Company

ATTN: A. W. Snyder
ATTN: Harry Boyer

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Laboratory Accreditation
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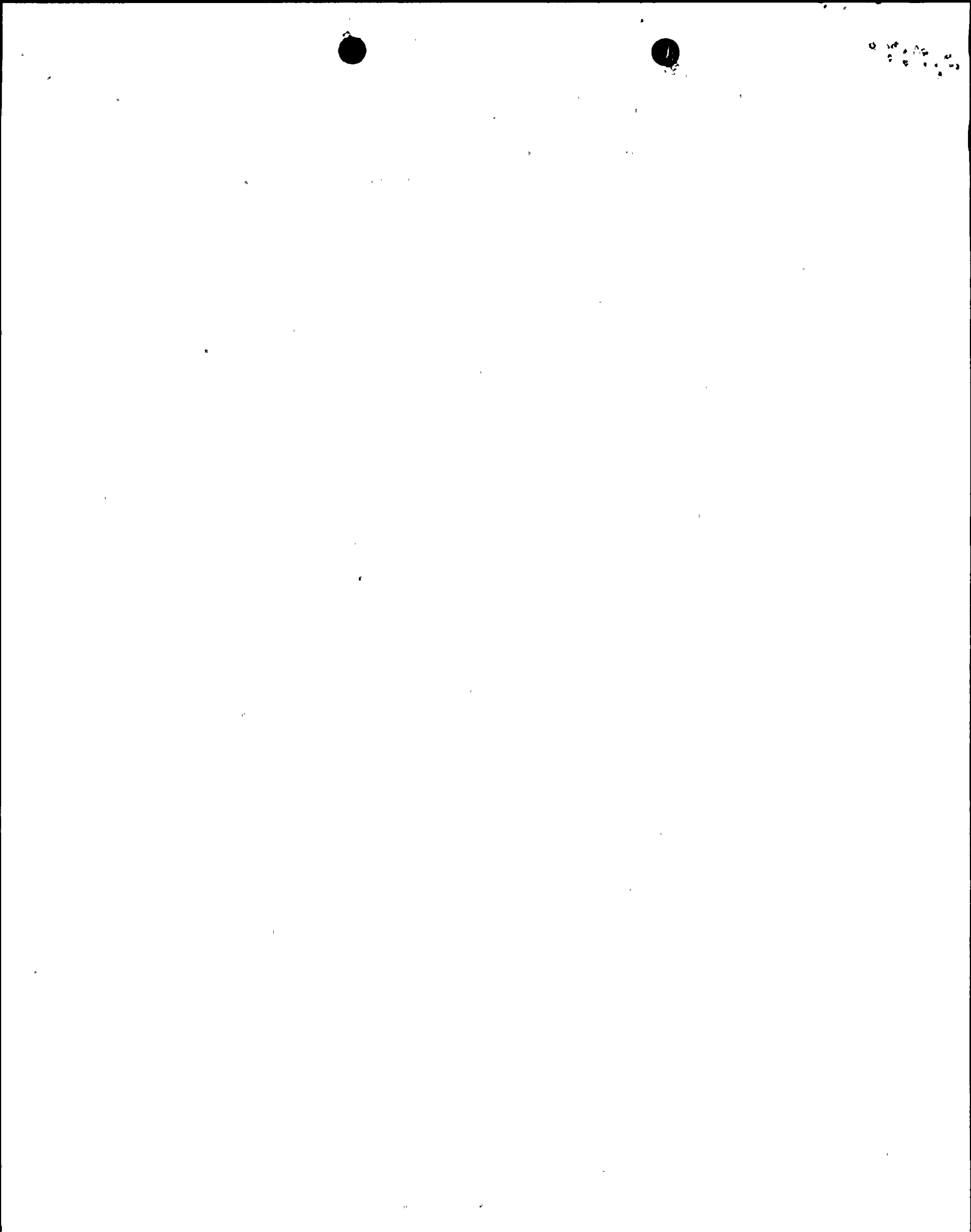


Questions? Contact Environmental
Technical Services at (717) 656-2301
053 00621 0.00 001300

See Reverse Side For Explanation
Of Symbols And Abbreviations And
Our Standard Terms And Conditions

Respectfully Submitted
Lancaster Laboratories, Inc.
Reviewed and Approved by:

Debora K. Gifford,
Group Leader, Inorganics





Lancaster Laboratories INCORPORATED

2425 New Holland Pike, Lancaster, PA 17601-5994 (717) 656-2301

LLI Sample No. TL 1445263

PP&L Company - Hazleton
Cedar & Buttonwood Streets
Hazleton, PA 18201-

Date Reported 10/24/89
Date Submitted 10/ 6/89
Discard Date 12/24/89
Collected by JSF
P.O. B-21091
Rel. 55-07-89

Susquehanna SES EP Toxicity Leachate of Water Box
Discharge Sample.
Collected on 10-04-89 at 1410 by JF/MY.

Table with 4 columns: ANALYSIS, RESULT AS RECEIVED, LIMIT OF QUANTITATION, LAB CODE. Lists various elements like Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Arsenic with their respective concentrations and limits.

The above analyses were performed on an EP Toxicity leachate of the submitted waste prepared according to the procedure specified in Federal Register May 19 1980 p. 33127. Since the total suspended solids of the sample were less than 5000 mg/l (0.5% by weight) the EP Toxicity leachate was prepared by passing the sample through a 0.45 micron membrane filter. The above analyses were performed on such a filtrate. A sample is considered EP Toxic if any of the contaminant concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards): Arsenic 5.0, Barium 100.0, Cadmium 1.0, Chromium 5.0, Lead 5.0, Mercury 0.2, Selenium 1.0, Silver 5.0, Endrin 0.02, Lindane 0.4, Methoxychlor 10.0, Toxaphene 0.5, 2,4-D 10.0, 2,4,5-TP 1.0. Based on the determinations performed, the submitted sample DOES NOT exhibit the characteristic of EP Toxicity as defined in Section 261.24 Federal Register 1980 p. 33122.

1 COPY TO PP&L Company - Hazleton ATTN: A. W. Snyder
1 COPY TO PP&L Company ATTN: Harry Boyer

The American Association for Laboratory Accreditation
Chemical, Biological & Environmental fields of testing.



Member: American Council of Independent Laboratories, Inc.

Questions? Contact Environmental Technical Services at (717) 656-2301
053 00621 75.00 020300

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Group Leader, Inorganics

