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ACCESSION NBR: 8505220269 DOC. DATE: 85/05/08 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
 FIELDS, J.S. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 KOVAL, P. Pennsylvania, Commonwealth of

SUBJECT: Provides addl info re discharges of photoprocessing wastewater per 850227 telcon. Waste from weld X-rays discharged to sewage treatment plant for 60 days beginning 850305. Waste from chest X-rays stored in 55 gallon drums.

DISTRIBUTION CODE: C001L COPIES RECEIVED: LTR / ENCL SIZE: ⁵
 TITLE: Licensing Submittal: Environmental Rept Amdt & Related Correspondence

NOTES: 1cy NMSS/FCAF/PM. LPDR 2cys Transcripts. 05000387
 OL: 07/17/82
 1cy NMSS/FCAF/PM. LPDR 2cys Transcripts. 05000388
 OL: 03/23/84

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	NRR/DE/EEB	06	1	1	NRR/DE/EHEB		1	1
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NOTES:			3	3				

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RECEIVED: 10/24/57
FROM: SAC, NEW YORK
TO: SAC, NEW YORK
SUBJECT: [REDACTED]

Enclosed for the New York Office are two copies of a report...
dated 10/24/57. The report is being furnished to you for your information.

Very truly yours,
Special Agent in Charge

RECIPIENT	UNIT 1	UNIT 2	UNIT 3
UNIT 1	1	1	1
UNIT 2	1	1	1
UNIT 3	1	1	1
UNIT 4	1	1	1
UNIT 5	1	1	1
UNIT 6	1	1	1
UNIT 7	1	1	1
UNIT 8	1	1	1
UNIT 9	1	1	1
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Pennsylvania Power & Light Company

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

May 8, 1985

Mr. Paul Koval
Chief, Operations Section
Bureau of Water Quality Management
Pennsylvania Department of Environmental Resources
P. O. Box 659
90 East Union Street, Second Floor
Wilkes-Barre, PA 18702

SUSQUEHANNA STEAM ELECTRIC STATION 50-387
DISCHARGE OF PHOTOPROCESSING WASTEWATER 50-388
NPDES PERMIT NO. PA 0047325
CCN 741326 FILE 012-4
PLE- 7116

Dear Mr. Koval:

This letter provides additional information regarding discharges of photoprocessing wastewater produced at the Susquehanna Steam Electric Station (Susquehanna SES), as discussed during our telephone conversation of February 27, 1985. This wastewater is produced periodically by temporary, mobile photoprocessing labs located at the Susquehanna SES. These labs develop chest x-rays taken during periodic employee health surveys and also x-rays of piping welds taken during plant outages.

These photoprocessing wastes consist primarily of water (tap water or deionized water) which contains small amounts of developing and fixing solutions rinsed from the film during the developing process. While the characteristics of the wastes from both the chest x-ray and weld x-ray processing are similar, the quantity of wastes produced and frequency of discharge differs as noted below.

Table with 5 columns: Type of x-rays, Estimated Quantity of Flow, Chemical Analyses, Duration of Discharge, Frequency of Reoccurrence. Row 1: Piping Welds, 840 gal/day avg. 1,260 gal/day max., Attach. 1, Approx. 2 months, beginning 3/5/85 (excluding Sundays), 1-Time discharge, however, may re-occur during future outages.

8505220269 850508
PDR ADCK 05000387
P PDR

COOL
1/1

May 8, 1985

2

CCN 741326 PLE-7116
FILE 012-4

Chest	300 gal/day avg.	Attach. 2	Approx. 3 weeks, (excluding Saturdays and Sun- days)	Annually
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Effluent guidelines and standards for photographic processing (40CFR459) industries are not applicable to processes which produce less than 1,600 ft² of film per day (the processes at Susquehanna SES are estimated to produce a maximum of 85 ft²/day). Discussions with a representative from the Eastman Kodak Co. reveal that directly such wastewater to a sewage treatment plant (STP) is an acceptable treatment/disposal method since such a treatment plant will provide BOD reduction and some removal of metals which may be present in the wastewater. PP&L, therefore, plans to direct these discharges to the Susquehanna SES's STP.

As noted above, photographic wastes resulting from weld x-rays will be discharged to the STP for approximately 60 days beginning March 5, 1985. Wastes produced from chest x-rays conducted in December 1984 are currently being stored at the Susquehanna SES in 55-gallon drums.

Upon completion of the weld x-rays and termination of that discharge, these drummed wastes will be discharged to the STP. The rate of discharge will be controlled to ensure that the photoprocessing wastes do not exceed 10% of the total inflow to the STP was recommended by Eastman Kodak representatives).

If you have any questions or concerns regarding these discharges please contact me at (215) 770-7889.

Respectfully yours,



Jerome S. Fields
Sr. Environmental Scientist-Nuclear

DAS/dml

dasltc002415a

cc: ~~A. Schwencer~~ NRC
D. Augustini Pa. DER

Lancaster Laboratories

LLI Sample No. WW 370623

PP&L Company
Susquehanna S E S
P. O. Box 467
Berwick, PA 18603

Date Reported 4/23/85
Date Submitted 3/25/85
Discard Date 3/25/85
P. O. No. 4-49477-5
Collected by Client

#61 85-W-009 2 Liter of Photo Process Discharge
Collected on 3/16/85 (1000) by TB

ANALYSIS	AS RECEIVED	LAB CODE
Chemical Oxygen Demand	31. mg/l	234-099-020
Biochemical Oxygen Demand	6. mg/l	235-143-025
Cyanide (Total)	< 0.005 mg/l	242-099-030
Nickel	< 0.05 mg/l	261-040-012
		999-000-000

The sample is a clear, colorless aqueous solution. No odor is detected.

1 COPY TO PP&L Company
1 COPY TO PP&L Company
1 COPY TO PP&L Company

Attn: Administrative Supervisor
Attn: David Ortiz
Attn: John Hansell (42-4)

According to telephone call from Lee Perry
of Lanc. Labs, 4-30-85, Ag conc is 0.40 mg/l

SEE REVERSE SIDE FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS

The American Association of
Laboratory Accreditation
Organizations

2290

0

8700



MAIN LABORATORY
2435 New Mt and Pike Lancaster Pa 17601 • (717) 656-2301

FRANKLIN DIVISION
6404 Exchange Pa East Mahanostock Pa 17268 • (717) 656-2301

Respectfully submitted
Lancaster Laboratories, Inc.

Reviewed and Approved by:
Elizabeth White, Group Leader
Water Chemistry



ANALYSIS REPORT

Lancaster Laboratories

LLI Sample No. WW 377064

INCORPORATED

PP&L Company
Susquehanna S E S
P. O. Box 467
Berwick, PA 18603

Date Reported 4/30/85
Date Submitted 4/24/85
Discard Date 5/ 7/85
P. O. No. 4-49677-5
Collected by Client

#61 85-W-009 2 Liter of Photo Process Discharge
Coll 3/16/85 (1000) by TB Previous LLI #370623

ANALYSIS	AS RECEIVED	LAB CODE
Silver	0.40 mg/l	999-054-00000

1 COPY TO PP&L Company
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1 COPY TO PP&L Company

Attn: Administrative Supervisor
Attn: David Ortz
Attn: John Hansell (A2-4)

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The American Association for
Laboratory Accreditation 2290
Chemical & Biological fields of testing



MAIN LABORATORY
2425 New Hope and Pike Lancaster Pa 17601 • 717-656-2301

FRANKLIN DIVISION
5424 Buchanan Tra East Waynesboro Pa 17268

Respectfully submitted
Lancaster Laboratories, Inc.

Reviewed and Approved by:
Lee A. Seatz, B.S. Group Ldr.
Inorganic Analysis

Member American Council of
Independent Laboratories, Inc.

Lancaster Laboratories

LLI Sample No. WW 250918

PP&L Company
Susquehanna S E S
P. O. Box 467
Berwick, PA 18603

Date Reported 1/7/85
Date Submitted 12/17/84
Discard Date 2/6/85
P. O. No. 4-49677-5
Collected by Client
Date Corrected 1/14/85

#50.84-W-037 Amber Aqueous Liquid
Collected 12/17/84 (1430) by TMF

ANALYSIS	AS RECEIVED	LAB CODE
Arsenic	< 0.004 mg/l	245-053-02000
Mercury	< 0.001 mg/l	259-044-02000
Selenium	< 0.004 mg/l	264-053-02000
Flash Point for Liquids	see below	430-041-02800
Solvent Identification	see below	445-089-09000
See enclosed sheet for additional information on above Solvent Screen.		
Semi-quantitative ICP	attached	489-120-08500
Sample Description	see below	999-071-02000

Sample description: The sample is a slightly turbid, amber liquid. It contains a small amount of sediment (< 0.1% v/v). It has no strong odors. It is non-flammable and completely miscible with water. It is most likely aqueous and has a neutral pH.

The solvents included on the attached list were not detected in excess of 0.5 % by wt.

Flashpoint: The sample did not show a flashpoint. The flame was extinguished at 82°F.

Flashpoint was determined using Pensky Martens closed cup apparatus.

1 COPY TO PP&L Company
1 COPY TO PP&L Company
1 COPY TO PP&L Company

Attn: Administrative Supervisor
Attn: David Ortiz
Attn: John Hansell (A2-4)

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The American Association of
Laboratory Accreditation
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2290

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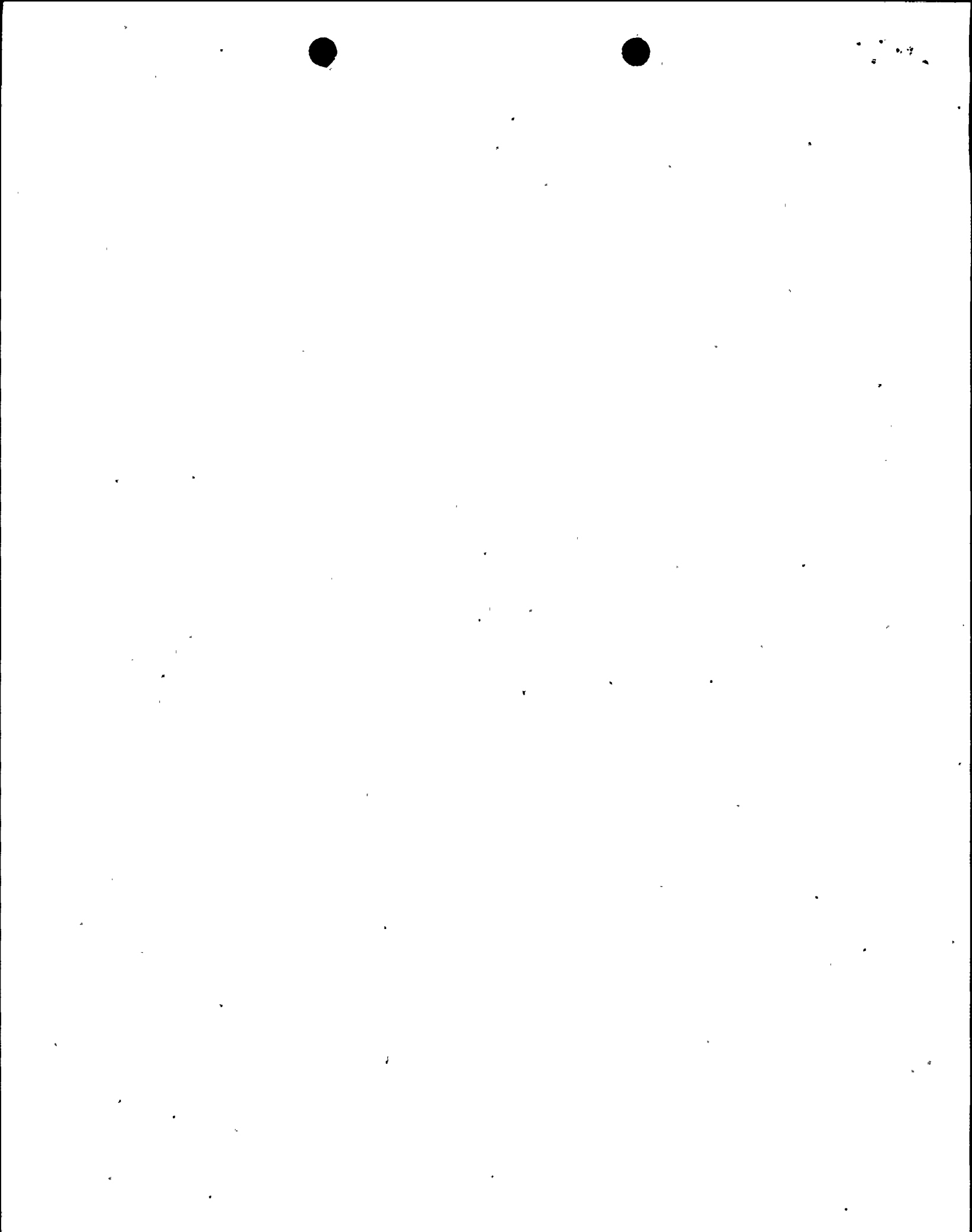
28300



MAIN LABORATORY
2425 New Road and Pike Lancaster Pa 17601 • (717) 656-2301
FRANKLIN DIVISION
5424 Buchanan Pa East Walnut Creek Pa 17268 • (717) 656-2301

Respectfully submitted
Lancaster Laboratories, Inc.

Reviewed and Approved by:
Wilson Henshey M.S. Mgr.
Environmental





ANALYSIS REPORT

Lancaster Laboratories INCORPORATED

LLI Sample No WW 350918

PP&L Company
Susquehanna S E S
P. O. Box 467
Berwick, PA 18603

Date Reported 1/7/85
Date Submitted 12/17/84
Discard Date 2/6/85
Collected by Client

#50 B4-W-037 Amber Aqueous Liquid
Collected 12/17/84 (1430) by TMF

Semi-quantitative ICP

AS RECEIVED

Aluminum		1.0	mg/l
Antimony	<	2.	mg/l
Arsenic	<	1.	mg/l
Barium	<	0.05	mg/l
Beryllium	<	0.01	mg/l
Bismuth	<	1.	mg/l
Boron		4.2	mg/l
Calcium		28.	mg/l
Cadmium	<	0.05	mg/l
Chromium	<	0.1	mg/l
Cobalt	<	0.2	mg/l
Copper	<	0.1	mg/l
Iron		2.7	mg/l
Lead	<	0.5	mg/l
Lithium	<	2.	mg/l
Magnesium		4.4	mg/l
Manganese	<	0.05	mg/l
Molybdenum	<	0.2	mg/l
Nickel	<	0.5	mg/l
Phosphorous	<	2.	mg/l
Potassium		250.	mg/l
Platinum	<	0.5	mg/l
Selenium	<	3.	mg/l
Silicon		3.1	mg/l
Silver		1.1	mg/l
Sodium		84.	mg/l
Strontium		0.22	mg/l
Thallium	<	2.	mg/l
Tin	<	2.	mg/l
Titanium	<	0.1	mg/l
Vanadium	<	0.2	mg/l
Zinc		0.20	mg/l

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The American Association for
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Chemical & Biological Fields of Testing



MAIN LABORATORY
2425 New Ho. and Pike Lancaster Pa 1760 • (717) 656-230

FRANKLIN DIVISION
5424 Buchanan Trail East Waynesboro Pa 17268 • (717) 762-1100

Respectfully submitted,
Lancaster Laboratories, Inc.

Reviewed and Approved by
YAL
Lee A. Grata, B.S. Group Ldr.
Inorganic Analysis