

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8709100031 DOC. DATE: 87/09/03 NOTARIZED: NO DOCKET #
 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
 SAXTON, C. H. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 LEHMAN, S. Pennsylvania, Commonwealth of

SUBJECT: Discusses discharge of HX flushing water to cooling towers.
 liquid collected will be contained in temporary impoundment
 for solids to settle. Liquid then pumped into tanker for
 disposal. Analysis of river sediment encl.

DISTRIBUTION CODE: C001D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 5
 TITLE: Licensing Submittal: Environmental Rept Amdt & Related Correspondence

NOTES: 1cy NMSS/FCAF/PM. LPDR 2cys Transcripts. 05000387
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	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
	PD1-2 LA	1 1	PD1-2 PD	1 1
	THADANI, M	1 1		
INTERNAL:	ACRS	6 6	AEOD/DOA	1 1
	AEOD/DSP/TPAB	1 1	ARM/DAF/LFMB	1 0
	NRR/DEST/ADE	1 1	NRR/DEST/ESGB	1 1
	NRR/DREP/RPB	1 1	OGC/HDS2	1 0
	<u>REG FILE</u> 01	1 1		
EXTERNAL:	LPDR	2 2	NRC PDR	1 1
	NSIC	1 1		
NOTES:		3 3		



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Pennsylvania Power & Light Company

September 3, 1987

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

59-387

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
NPDES PERMIT No. PA 0047325, OUTFALL 071
DISCHARGE OF HEAT EXCHANGER FLUSHING WATER TO
COOLING TOWERS
CCN 741326 FILE R9-8A
PLE- 9754

Dear Mr. Lehman:

At the Susquehanna Steam Electric Station approximately 120 heat exchangers of various sizes will be cleaned during 18 month cycles using a hydrolasing process. During hydrolasing approximately 10 gallon per minute of demineralized water is discharged through a nozzle at 6000-9000 psi to dislodge river sediment and scale from heat exchanger surfaces. The liquid collected from this activity will be contained in a temporary impoundment where solids will be allowed to settle before the liquid is pumped to a tanker for disposal. Pursuant to our telephone conversation of August 26, 1987, the Pennsylvania Department of Environmental Resources has authorized discharge of the liquid from this activity to the cooling towers. This discharge should not impact on the station's ability to maintain compliance with the NPDES permit.

An analysis of river sediment collected from the Unit 1 cooling tower is attached for your review. A sample of the hydrolasing wastes, collected during cleaning, will be analyzed for similar parameters.

If you have any questions please contact me at (215) 770-7891.

Respectfully yours,

Curtis H. Saxton
Environmental Specialist-Nuclear

cs/lti1087a:cly

Attachment

Copy to:
Dr. W. R. Butler US NRC

*cool
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PDR ADDCK 05000387
P PDR



Lancaster Laboratories INCORPORATED

2125 NEW HOLLAND PIKE LANCASTER PA 17601-5994 (717) 656-2301

LLI Sample No. TL 1177920

PP&L Company - Berwick
 Susquehanna S B S
 P. O. Box 467
 Berwick, PA 18603-0467
 EP Toxicity Leachate of #87-16727

Date Reported 8/18/87
 Date Submitted 7/16/87
 Discard Date 9/18/87
 Collected by C
 P.O. 6-97903-S
 Rel.

ANALYSIS	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Arsenic	0.006 mg/l	0.004	024502200
Barium	2.2 mg/l	0.1	024601200
Cadmium	< 0.005 mg/l	0.005	024901200
Chromium	< 0.05 mg/l	0.05	025101200
Lead	< 0.05 mg/l	0.05	025501200
Mercury	< 0.001 mg/l	0.001	025902200
Selenium	< 0.004 mg/l	0.004	026402200
Silver	< 0.01 mg/l	0.01	026601200
EPA Pesticides	attached		095107500
Herbicides	attached		095208000

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.

The characteristic of EP Toxicity is determined by whether any of the contaminant concentrations (mg/l) in the leachate exceed the following maxima (100 X's 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 - Berwick ATTN: Administrative Supervisor
 1 COPY TO PP&L Company ATTN: David Ortz
 1 COPY TO PP&L Company ATTN: John Hansel (A1-2)

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02290 170.00 045100

SEE REVERSE SIDE FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS AND OUR STANDARD TERMS AND CONDITIONS

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

Timothy S. Oostdyk, B.A.
 Group Leader, Inorganics



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ANALYSIS REPORT

Lancaster Laboratories INCORPORATED

225 NEW HOLLAND PIKE LANCASTER PA 17601-5901 (717) 656-2301

LLI Sample No. TL 1177920

PP&L Company - Berwick
Susquehanna S E S
P. O. Box 467
Berwick, PA 18603-0467
EP Toxicity Leachate of #87-16727

Date Reported 8/18/87
Date Submitted 7/16/87
Discard Date 9/18/87
Collected by C
P.O. 6-97903-S
Rel.

EPA Pesticides	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
Endrin	< 1. ug/l	1.	028400000N
Lindane	< 1. ug/l	1.	028500000N
Methoxychlor	< 20. ug/l	20.	028600000N
Toxaphene	< 50. ug/l	50.	028700000N

1 COPY TO PP&L Company - Berwick
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ATTN: Administrative Supervisor
ATTN: David Ortz
ATTN: John Hansel (A1-2)

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

Charles J. Neslund, B.S.
Chemist II

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Lancaster Laboratories

INCORPORATED

2426 NEW HOLLAND PIKE, LANCASTER, PA 17601-5994 (717) 656-2301

LLI Sample No. TL 1177920

PP&L Company - Berwick
Susquehanna S E S
P. O. Box 467
Berwick, PA 18603-0467
EP Toxicity Leachate of #87-16727

Date Reported 8/18/87
Date Submitted 7/16/87
Discard Date 9/18/87
Collected by C
P.O. 6-97903-S
Rel.

Herbicides	RESULT AS RECEIVED	LIMIT OF DETECTION	LAB CODE
2 4-D	< 100. ug/l	100.	028800000N
2 4 5-TP	< 100. ug/l	100.	028900000N

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1 COPY TO PP&L Company

ATTN: Administrative Supervisor
ATTN: David Ortz
ATTN: John Hansel (A1-2)

LAB CODE
028800000N
028900000N
-ORIN
P-932
FBI

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

Charles J. Neslund, B.S.
Chemist II

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USHRC-DS

1987 SEP -9 A 9:42