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ACCESSION NBR: 8707130546 DOC. DATE: 87/07/06 NOTARIZED: YES DOCKET #
FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylva 05000387
50-388 Susquehanna Steam Electric Station, Unit 2, Pennsylva 05000388
AUTH. NAME AUTHOR AFFILIATION
FIELDS, J. S. Pennsylvania Power & Light Co.
RECIP. NAME RECIPIENT AFFILIATION
VALUNAS, P. Luzerne County, PA

SUBJECT: Forwards State of PA application for earth disturbance permit for facility erosion & sediment control plan for maint of intake & discharge diffuser structures. Topography map & project description.

DISTRIBUTION CODE: C001D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 7
TITLE: Licensing Submittal: Environmental Rept Amdt & Related Correspondence

NOTES: 1cy NMSS/FCAF/PM. LPDR 2cys Transcripts. 05000387
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	NRR/DEST/ADE	1	1	NRR/DEST/ESGB	1	1
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Pennsylvania Power & Light Company
Two North Ninth Street • Allentown, PA 18101 • 215/770-5151

July 6, 1987

50-387

Ms. Paula Valunas
District Manager
Luzerne County Conservation District
Court House Annex
5 Water Street
Wilkes-Barre, PA 18711

SUSQUEHANNA STEAM ELECTRIC STATION
EROSION AND SEDIMENT CONTROL PLAN
FOR MAINTENANCE OF THE INTAKE AND
DISCHARGE DIFFUSER STRUCTURES
CCN-741326 FILE R9-8C
PLE- 9582

Dear Ms. Valunas:

The Pennsylvania Power and Light Company (PP&L) is submitting three completed and notarized copies of an application for an Earth Disturbance Permit. Included with this application are:

-- Maps showing area topography

-- A narrative describing the proposed project

-- A $200.00 filing fee

PP&L requests a letter of review by the County Conservation District at your earliest convenience. A copy of the Erosion and Sedimentation Plan and also a letter of your review of this plan are to be submitted to the U.S. Army Corps of Engineers for their approval to perform this maintenance activity in the river. PP&L is planning to remove the river silt and sediment from in front of the intake and from the discharge diffuser pipe beginning on September 8, 1987.

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

Respectfully yours,

Jerome S. Fields

Jerome S. Fields,
Sr. Env. Scientist-Nuclear

JSF/msh

Cool
1/1

cc: E. Adensam (NRC)
E. Klein - Chief Clerk, Luzerne County
F. Molnar - Secretary, Salem Township

R-SWC44: Rev. 2/82

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF SOIL AND WATER CONSERVATION

OFFICIAL USE ONLY.
Application Number

APPLICATION FOR AN EARTH DISTURBANCE PERMIT

APPLICANT	PROJECT
NAME Pennsylvania Power and Light Company	COUNTY Luzerne
MAILING ADDRESS Two North Ninth Street	MUNICIPALITY Salem Township
Allentown, PA 18101	LOCATION 6 mi northeast of Berwick, PA
TELEPHONE NUMBER (215) 770-5151	along west bank of river, approximately ½ mile east of U.S. Route 11
RESPONSIBLE OFFICIAL H. W. Keiser	RECEIVING STREAM Susquehanna River
TITLE Vice President-Nuclear Operations	DESCRIPTION Susquehanna Steam Electric Station intake bay
TELEPHONE NO. (215) 770-7502	and diffuser pipe ACRES 0.9

HEREBY APPLIES FOR APPROVAL OF AN EROSION AND SEDIMENTATION CONTROL PLAN

ATTACHMENTS

DATE OF APPLICATION *July 6, 1987*

Attached are 3 application forms [X], 3 copies of the plan map [X], 3 copies of the plan narrative [X] and a check for $ 200.00. Please specify any other plans, modules or documents included.

AFFIDAVIT

COMMONWEALTH OF PENNSYLVANIA
COUNTY OF *Lehigh*

I, *H. W. Keiser*, being duly sworn, according to law, depose and say: that I (am the applicant) (am an officer or official of the applicant) (have the authority to make this application) and that the plans, reports and documents submitted as part of the application are true and correct to the best of my knowledge and belief.

SWORN AND SUBSCRIBED TO BEFORE ME THIS

6th DAY OF *July* 19 *87*

Martha Albert
NOTARY PUBLIC

MARTHA C. BARTO, NOTARY PUBLIC
ALLENTOWN, LEHIGH COUNTY
MY COMMISSION EXPIRES JAN. 30, 1990
Member, Pennsylvania Association of Notaries

H. W. Keiser
SIGNATURE OF APPLICANT OR RESPONSIBLE OFFICIAL

PREPARER

DATE OF AGREEMENT *July 6, 1987*

This section is to be completed by the person authorized by the applicant to prepare this application.

NAME OF PREPARER OR FIRM	TELEPHONE NO.
Jerome S. Fields	(215) 770-7889
MAILING ADDRESS Pa. Power & Light Co., Two North Ninth St., Allentown, PA 18101	
SIGNATURE OF PREPARER *Jerome S. Fields*	
Sr. Environmental Scientist-Nuclear	

PROFESSIONAL SEAL (WHEN APPLICABLE)

Fig. 1 Portion of Berwick Quadrangle

Key: 1 - Susquehanna Steam Electric Station
2 - Intake bay
3 - Discharge diffuser pipe

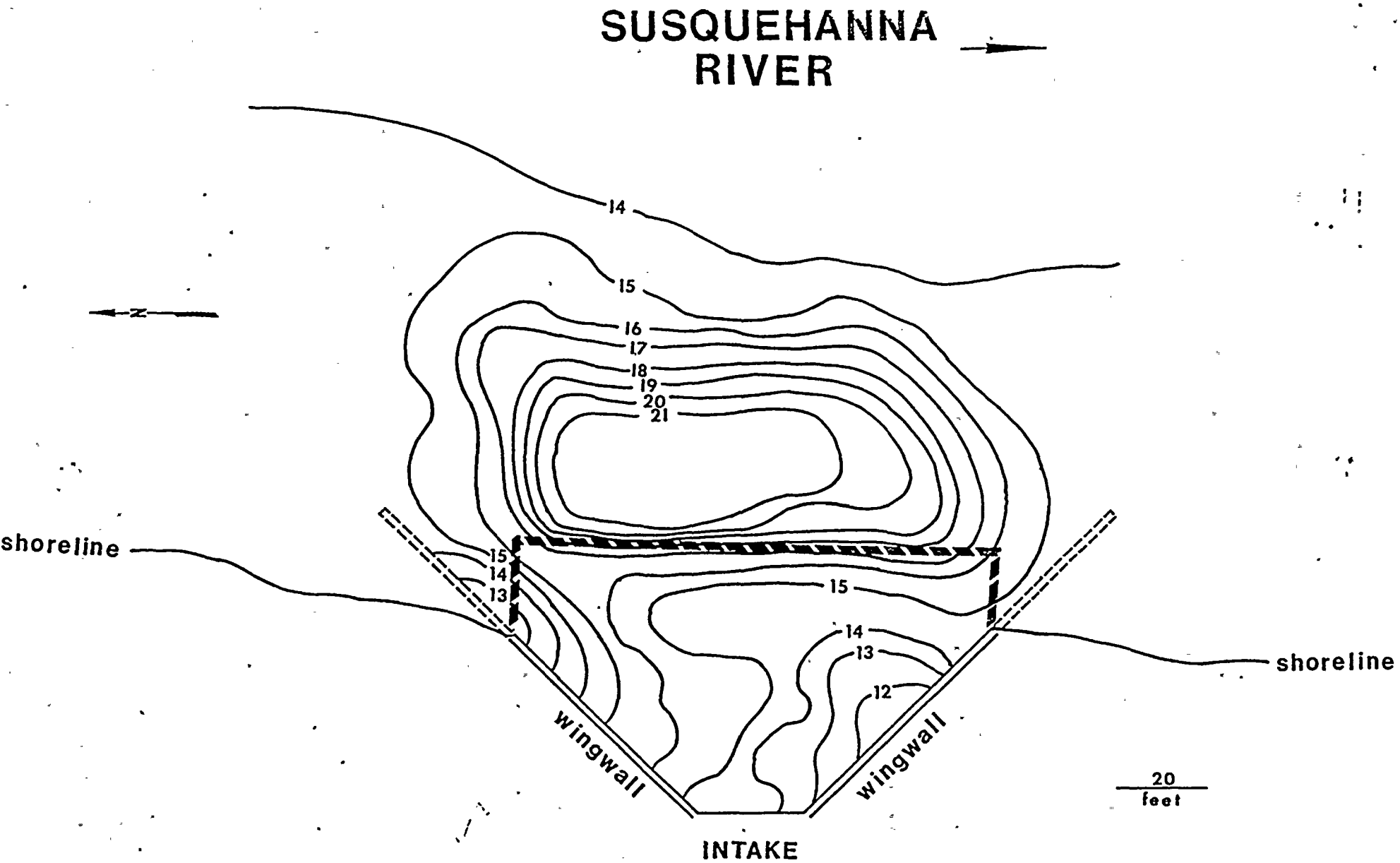

Fig. 2.

River bottom configuration at the Susquehanna SES intake from a plane-table survey conducted on 29 June 1987. Contour lines show depths at 1-foot intervals at a river level of 487 feet above mean sea level. Area enclosed within wingwalls by bold dashed-line will be dredged to a depth of 17 feet (470 feet above mean sea level).

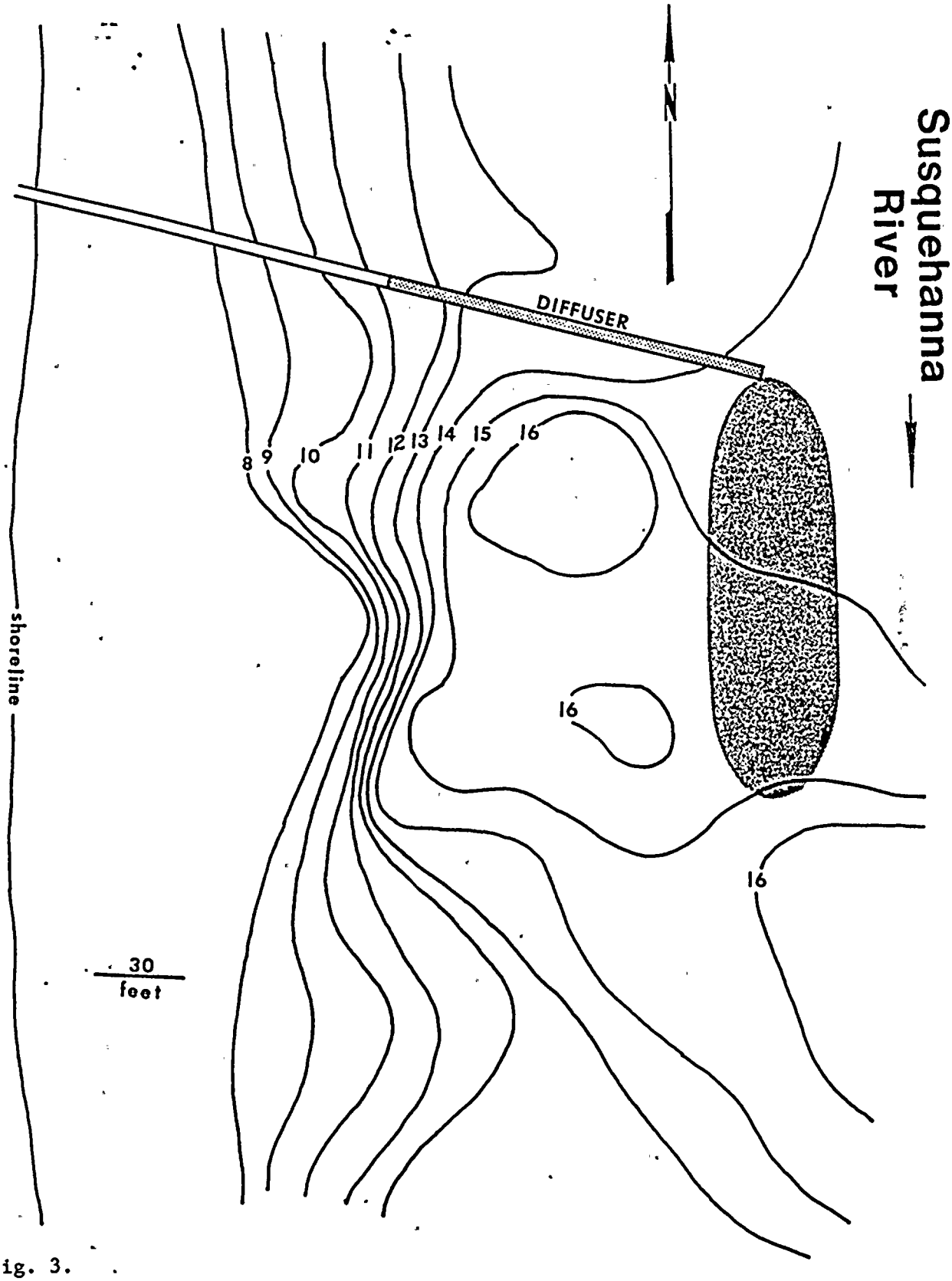

Fig. 3.

River bottom configuration at the Susquehanna SES discharge diffuser pipe from a plane-table survey conducted on 30 June 1987. Contour lines show depths at 1-foot intervals at a river level of 487 feet above mean sea level. Shaded area at end of diffuser shows appropriate impacted area.

EROSION AND SEDIMENTATION PLAN

1. General Statement

The Pennsylvania Power and Light Company (PP&L) plans on removing silt and sediment from the bay in front of the Susquehanna Steam Electric Station intake structure and from inside the discharge diffuser pipe. This activity will be conducted approximately 6 miles northeast of Berwick, Pennsylvania, in the Susquehanna River. Some of the river silt and sediment that settles in the bay is pumped into the station with cooling water and is eventually discharged back to the river.

This activity will be part of an annual maintenance program to minimize the accumulation of silt and sediment throughout the station's cooling system. Present plans are to conduct this year's activity beginning on September 8, 1987.

Approximately 380 cubic yards from the river bottom in the bay will be removed from the river with a 75-ton crane with a 100-foot boom using either a 1/2 or 3/4-yard clam basket. Silt and sediment will be removed within a two to three-week period and disposed of in a nearby construction and demolition site (Site #2, Pa. Dept. of Environmental Resources Permit #101352, July 15, 1985).

The discharge diffuser pipe (42-inch diameter) located on the river bottom extends about 200 feet from shore. The last 115 feet of the pipe has 4-inch portals located at a 45° angle facing downstream. Silt and sediment will be pumped out of the end of the pipe and discharged downstream.

Erosion control for both activities will be the expedient removal of the silt and sediment. Both activities are conducted underwater and will have no impact on shoreline topography.

The person preparing this application has degrees in Environmental Science and Biology. Also, he has over 15 years of environmental experience. In addition, he received support from biologists and construction personnel in preparing this plan.

2. Topographic Features of Project Area

A portion of the Berwick Quadrangle, 7.5-minute series, is shown in Figure 1. It provides the location of the intake and discharge diffuser pipe in the Susquehanna River. They are located approximately 1/4 mile east of U. S. Route 11 in Salem Township, Luzerne County.

Figure 2 shows the river bottom configuration at the intake bay, and Figure 3 shows the discharge diffuser pipe area bottom configuration. Contours are in 1-foot intervals. The intake bay area is approximately 0.4 acres while the area immediately downstream of the pipe, which could be affected, is less than 0.5 acres.

There are no other lakes, ponds, or bodies of water within the project area.

3. Types, Depths, Slope, and Areal Extent of Soils

An analysis of the silt and sediment indicated that it is a loamy sand. The areas to be impacted are 1) within the bold dashed lines in between the intake structure wingwalls (Fig. 2), and 2) within the shaded area downstream of the end of the discharge diffuser pipe (Fig. 3).

Silt and sediment from the intake area will be removed down to approximately 470 feet above mean sea level. Silt and sediment from the discharge diffuser pipe will settle on the river bottom downstream of the pipe.

4. A Maintenance Program for Control Facilities

Silt and sediment collected in the bay will be deposited in an approved PaDER construction and demolition site. A small berm will be placed around the material deposited to contain runoff. This material, once dried, will be graded and seeded.

Because of the minimum quantity (20-30 cubic yards) of silt and sediment in the discharge diffuser pipe, and because of its location on the river bottom, it will be pumped downstream.

Maintenance of the intake bay and diffuser discharge pipe will be an annual activity.