

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8511260637 DOC. DATE: 85/11/18 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  
 BARBERICH, W. E. Pennsylvania Power & Light Co.

SUBJECT: Forwards water quality mgt permit & std conditions for  
 sewage treatment plant expansion.

DISTRIBUTION CODE: C001L COPIES RECEIVED: LTR L ENCL L SIZE: 9  
 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

	RECIPIENT ID CODE/NAME	COPIES LTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTR ENCL
	BWR PD3 PD 18	1 1	BWR PD3 LA 19	1 1
	CAMPAGNONE 04	1 1		
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
NOTES:		3 3		

TOTAL NUMBER OF COPIES REQUIRED: LTR 24 ENCL 22

The following information is being furnished to you for your information and use. It is based on the information available to the Bureau at this time. It is not intended to constitute a recommendation or a guarantee of any kind. It is subject to change without notice.

The following information is being furnished to you for your information and use. It is based on the information available to the Bureau at this time. It is not intended to constitute a recommendation or a guarantee of any kind. It is subject to change without notice.

Item	Quantity	Unit Price	Total Price
1	1	1.00	1.00
2	2	2.00	4.00
3	3	3.00	9.00
4	4	4.00	16.00
5	5	5.00	25.00
6	6	6.00	36.00
7	7	7.00	49.00
8	8	8.00	64.00
9	9	9.00	81.00
10	10	10.00	100.00

November 18, 1985

W. E. Barberich A2-3

SUSQUEHANNA STEAM ELECTRIC STATION  
SEWAGE TREATMENT PLANT EXPANSION  
PERMIT NO. 4085411  
CCN 741326 FILE 012-4  
PLI-43005

Attached for your information is a copy of the water quality management permit and standard conditions for the sewage treatment plant expansion.

If you have any questions, please call me at ETN No. 220-7889.

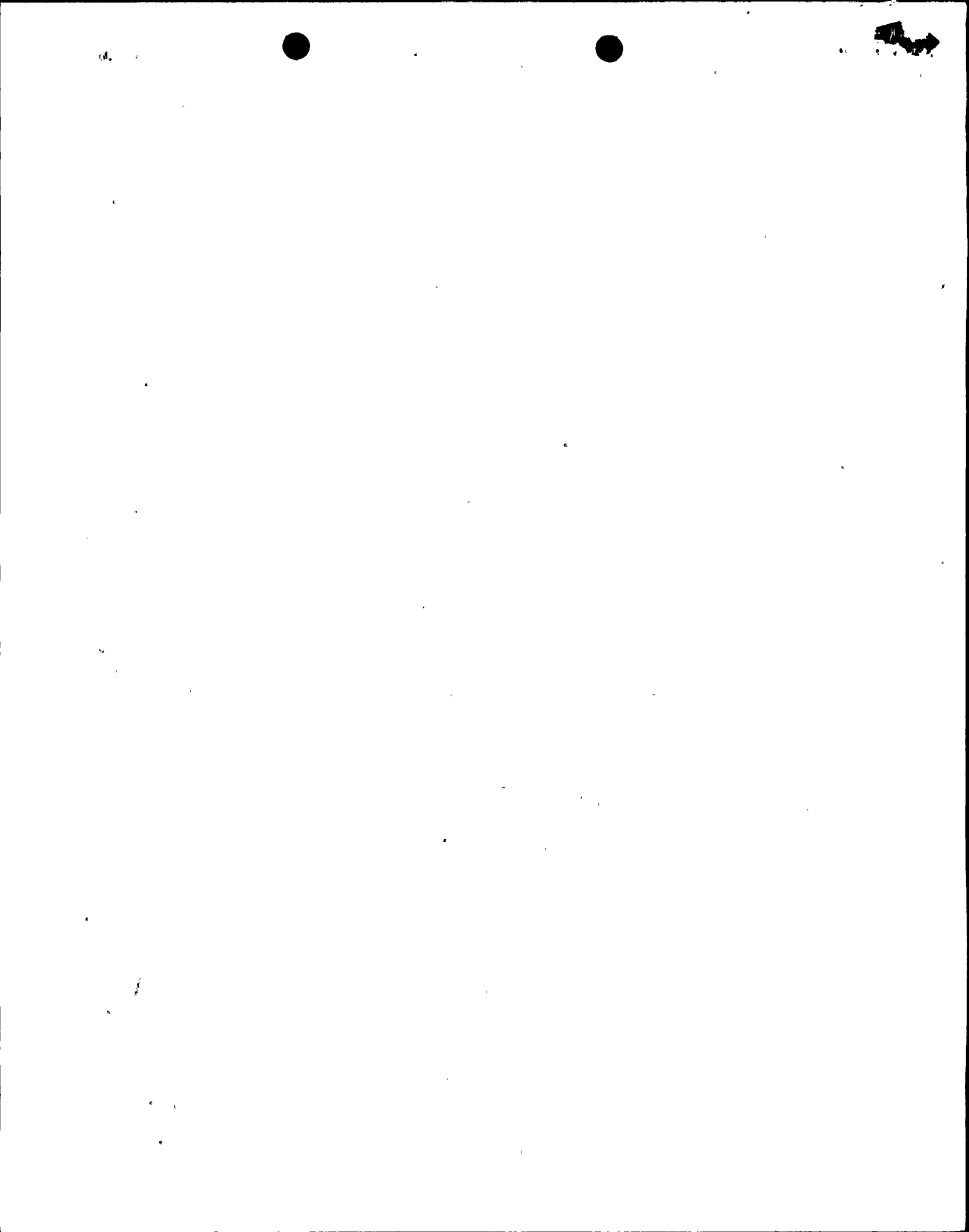
*J. S. Fields*  
J. S. Fields

JSF/amc

jsfmek004073a

cc: A. Schwencer NRC

*Cool  
1/1*





COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL RESOURCES  
Office of Environmental Protection  
90 East Union Street - 2nd Floor  
Wilkes-Barre, Pennsylvania 18701  
(717) 826-2511

October 23, 1985



Pennsylvania Power & Light Company  
c/o Mr. Jerry Fields  
2 North Ninth Street  
Allentown, PA 18101

Gentlemen:

RE: Application No. 4085411  
CP No. 4894

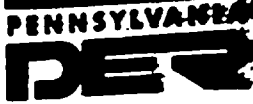
You were advised by letter dated September 13, 1985 that no other programs would need to review your application referenced above other than the Bureau of Solid Waste Management. That review has been completed and the application has been found to be satisfactory.

The permit resulting from your application is enclosed. If you have any questions regarding this matter now or at some later date, please feel free to contact this office.

Very truly yours,

JAMES W. CHESTER  
Regional Environmental  
Protection Director

JWC  
Enclosure  
cc: Bureau of Water Quality Management  
D. Gordon  
File  
Chron.



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL RESOURCES

Bureau of Water Quality Management  
90 East Union Street - 2nd Floor  
Wilkes-Barre, Pennsylvania 18701-3296  
717/826-2553

October 7, 1985

RECEIVED  
OCT 25 1985  
NUCLEAR DEPT.

Pennsylvania Power & Light Company  
c/o Mr. Jerry Fields  
Sr. Environmental Scientist - Nuclear  
Two North Ninth Street  
Allentown, PA 18101

Dear Mr. Fields:

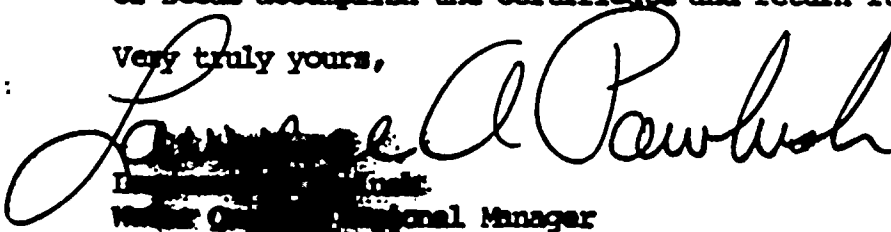
RE: Sewerage Permit No. 4085411  
Pennsylvania Power & Light Company  
(Susquehanna Steam Electric Station)  
Salen Township, Luzerne County

Subject permit is enclosed.

Please study the permit carefully and direct any questions to this office. Our telephone number is (717) 826-2553.

To become operative, this permit must be recorded in the Office of the Recorder of Deeds in the county in which the discharge is located. Enclosed is a certificate and pre-addressed envelope for this purpose. Please have the Recorder of Deeds accomplish the certificate and return it within ten (10) days.

Very truly yours,

  
Lawrence A. Pawlisch  
Regional Manager  
LAF:DWL:scd

Enclosures - Permit  
Standard Conditions  
Notarized Acknowledgment  
Certificate  
Return Envelope

cc: File  
Permits & Compliance  
Douglas H. Gordon  
F & M Associates, Inc.

COMMONWEALTH OF PENNSYLVANIA  
 DEPARTMENT OF ENVIRONMENTAL RESOURCES  
 BUREAU OF WATER QUALITY MANAGEMENT

WATER QUALITY MANAGEMENT PERMIT

NO. 4085411

<p><b>A. PERMITTEE: (Name and Address)</b></p> <p>Pennsylvania Power &amp; Light Co.                  c/o Mr. Jerry Fields                  Two North Ninth Street                  Allentown, PA 18101</p>	<p><b>B. PROJECT LOCATION</b></p> <p>Municipality <u>Salem Township</u></p> <p>County <u>Luzerne County</u></p>
<p><b>C. TYPE OF FACILITY (For industrial wastes; type of establishment)</b></p> <p>Sewage Treatment Plant</p>	<p><b>D. NAME OF MINE, PLANT, AREA SERVED, OUTFALL NO., ETC.</b></p> <p>Susquehanna Steam Electric Station</p>

E. THIS PERMIT APPROVES:	1. Plans For Construction Of: <table style="width:100%; margin-left: 20px;"> <tr> <td>a. <input type="checkbox"/> Pump Stations: Sewers and Appurtenances</td> <td>b. <input checked="" type="checkbox"/> Sewage Treatment Facilities</td> <td>c. <input type="checkbox"/> Industrial Wastes Treatment Facilities</td> </tr> <tr> <td>d. <input type="checkbox"/> Mine Drainage Treatment Facilities</td> <td>e. <input type="checkbox"/> Outfall &amp; Headwall</td> <td>f. <input type="checkbox"/> Stream Crossing</td> </tr> <tr> <td colspan="2"></td> <td>g. <input type="checkbox"/> Impoundment</td> </tr> </table>	a. <input type="checkbox"/> Pump Stations: Sewers and Appurtenances	b. <input checked="" type="checkbox"/> Sewage Treatment Facilities	c. <input type="checkbox"/> Industrial Wastes Treatment Facilities	d. <input type="checkbox"/> Mine Drainage Treatment Facilities	e. <input type="checkbox"/> Outfall & Headwall	f. <input type="checkbox"/> Stream Crossing			g. <input type="checkbox"/> Impoundment
	a. <input type="checkbox"/> Pump Stations: Sewers and Appurtenances	b. <input checked="" type="checkbox"/> Sewage Treatment Facilities	c. <input type="checkbox"/> Industrial Wastes Treatment Facilities							
	d. <input type="checkbox"/> Mine Drainage Treatment Facilities	e. <input type="checkbox"/> Outfall & Headwall	f. <input type="checkbox"/> Stream Crossing							
			g. <input type="checkbox"/> Impoundment							
2. The Discharge Of: <table style="width:100%; margin-left: 20px;"> <tr> <td>a. <input type="checkbox"/> Treated</td> <td>b. <input type="checkbox"/> Untreated</td> <td>c. <input type="checkbox"/> Sewage</td> <td>d. <input type="checkbox"/> Industrial Wastes</td> </tr> </table>	a. <input type="checkbox"/> Treated	b. <input type="checkbox"/> Untreated	c. <input type="checkbox"/> Sewage	d. <input type="checkbox"/> Industrial Wastes						
a. <input type="checkbox"/> Treated	b. <input type="checkbox"/> Untreated	c. <input type="checkbox"/> Sewage	d. <input type="checkbox"/> Industrial Wastes							
3. Discharge To: <table style="width:100%; margin-left: 20px;"> <tr> <td>a. <input type="checkbox"/> Surface Water</td> <td rowspan="2" style="vertical-align: top;">                             Name of Stream to which discharged or drainage area in which groundwater discharge takes place or impoundment is located.                         </td> </tr> <tr> <td>b. <input type="checkbox"/> Ground Water</td> </tr> </table>	a. <input type="checkbox"/> Surface Water	Name of Stream to which discharged or drainage area in which groundwater discharge takes place or impoundment is located.	b. <input type="checkbox"/> Ground Water							
a. <input type="checkbox"/> Surface Water	Name of Stream to which discharged or drainage area in which groundwater discharge takes place or impoundment is located.									
b. <input type="checkbox"/> Ground Water										
4. The Operation of a Mine <input type="checkbox"/> Maximum Area to be Deep Mined _____ Acres	5. An Erosion and Sedimentation Control Plan <input checked="" type="checkbox"/> Project Area is <u>2.0</u> Acres									

**F. THIS APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:**

1. ALL CONSTRUCTION, OPERATIONS, <sup>and</sup> PROCEDURES ~~AND PROCEDURES~~ SHALL BE IN ACCORDANCE WITH APPLICATION NO. 4085411 DATED 08/09/85 ITS SUPPORTING DOCUMENTATION, AND AMENDMENTS DATED 09/26/85 SUCH APPLICATION, ITS SUPPORTING DOCUMENTATION AND AMENDMENTS ARE HEREBY MADE A PART OF THIS PERMIT.

2. CONDITIONS NUMBERED 1, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 21 and 22 OF THE Sewerage STANDARD CONDITIONS DATED 09/02/83 AND CONDITIONS NUMBERED NONE OF THE EROSION CONTROL STANDARD CONDITIONS DATED \_\_\_\_\_ WHICH CONDITIONS ARE ATTACHED AND MADE PART OF THIS PERMIT.

3. SPECIAL CONDITIONS DESIGNATED NONE WHICH ARE ATTACHED AND ARE MADE A PART OF THIS PERMIT.

**G. THE AUTHORITY GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING FURTHER QUALIFICATIONS:**

1. IF THERE IS A CONFLICT BETWEEN THE APPLICATION ON ITS SUPPORTING DOCUMENTS AND AMENDMENTS AND THE STANDARD OR SPECIAL CONDITIONS, THE STANDARD OR SPECIAL CONDITIONS SHALL APPLY.
2. FAILURE TO COMPLY WITH THE RULES AND REGULATIONS OF THE DEPARTMENT OR WITH THE TERMS OR CONDITIONS OF THIS PERMIT SHALL VOID THE AUTHORITY GIVEN TO THE PERMITTEE BY THE ISSUANCE OF THE PERMIT.
3. THIS PERMIT IS ISSUED PURSUANT TO THE CLEAN STREAMS LAW, ACT OF JUNE 22, 1937, P.L. 1987 AS AMENDED 35 P.S. § 691.1 ET SEQ. AND/OR THE WATER OBSTRUCTION ACT, ACT OF JUNE 25, 1913, P.L. 555 AS AMENDED 32 P.S. § 681 ET SEQ. ISSUANCE OF THIS PERMIT SHALL NOT RELIEVE THE PERMITTEE OF ANY RESPONSIBILITY UNDER ANY OTHER LAW

DEPARTMENT OF ENVIRONMENTAL RESOURCES

PERMIT ISSUED

DATE October 7, 1985

BY Lawrence A. Pawlusch  
 LAWRENCE A. PAWLUSCH  
 WATER QUALITY REGIONAL MANAGER

TITLE \_\_\_\_\_

September 2, 1983

## STANDARD CONDITIONS RELATING TO SEWERAGE - PART II PERMITS

**ONE:** During construction, no changes affecting any engineering design parameter shall be made from the plans, designs, and other data herein approved unless the permittee shall first receive written approval thereof from the Department. The sewerage facilities shall be constructed under expert engineering supervision and competent inspection.

**TWO:** The sewers shall have adequate foundation support as soil conditions require. Trenches shall be back-filled such that the sewers will have proper structural stability, with minimum settling and adequate protection against breakage. Concrete used in connection with these sewers shall be protected from injury by water, freezing, drying or other harmful conditions until cured.

**THREE:** Manhole inverts shall be so formed as to facilitate the flow of the sewage and to prevent the stranding of sewage solids, and the whole manhole structure shall have proper structural strength and be so constructed as to prevent undue infiltration, entrance of the street wash or grit, and to provide convenient and safe means of access and maintenance.

**FOUR:** No stormwater from pavements, area ways, roofs, foundation drains or other sources shall be admitted to the sanitary sewers herein approved.

**FIVE:** The permittee shall adopt and enforce an ordinance requiring the abandonment of privies, cesspools or similar receptacles for human waste and on-lot sewage disposal systems on the premises of occupied structures which are accessible to public sewers and require the connection of such structures to the public sewers.

**SIX:** The herein approved sewers shall be maintained in good condition, kept free from deposits by flushing or other proper means of cleaning, and repaired when necessary.

**SEVEN:** The permittee shall file with the Department of Environmental Resources "as-built" plans showing the correct plan of all sewers and sewerage structures as actually constructed together with any other information in connection therewith that may be required.

**EIGHT:** The outfall sewer or drain shall be extended to the low water mark of the receiving body of water. Where necessary to assure the proper mixing and waste assimilation an outfall sewer or drain may be extended with appurtenances below the low water mark and into the bed of navigable stream, provided that the permittee has secured an easement, right-of-way, license, or lease from the Department in accordance with Section 15 of the Dam Safety and Encroachment Act, the Act of November 26, 1978, P.L. 1375, as amended.



**NINE:** The approval herein given is specifically made contingent upon the permittee acquiring all necessary property rights, by easement or otherwise, providing for the satisfactory construction, operation, maintenance and replacement of all sewers or sewerage structures in, along, or across private property, with full rights of ingress, egress and regress.

**TEN:** When the herein approved sewage treatment works is completed and before it is placed in operation, the permittee shall notify the Department in writing so that an inspection of the works may be made by a representative of the Department.

**ELEVEN:** The various structures and apparatus of the sewage treatment works herein approved shall be maintained in proper condition so that the facility will individually and collectively perform the functions for which they were designed.

**TWELVE:** If, in the opinion of the Department, these works are not so operated or if by reason of change in the character of wastes or increased load upon the works, or changed use or condition of the receiving body of water, or otherwise the effluent from the said works ceases to be satisfactory or the sewerage facilities shall have created a public nuisance, then upon notice by the Department, the right herein granted shall cease and become null and void unless within the time specified by the Department, the permittee shall adopt such remedial measures as will produce an effluent which, in the opinion of the Department, will be satisfactory.

**THIRTEEN:** The attention of the permittee is called to the highly explosive nature of certain gases generated by the digestion of sewage solids when these gases are mixed in proper portions with air, and to the highly toxic character of certain gases arising from such digestion or from sewage in insufficiently ventilated compartments or sewers. Therefore, at all places throughout the sewerage facilities where hazard of fire, explosion, or danger from toxic gases may occur, the permittee shall post conspicuously proper warnings of a permanent and legible character and shall provide for the thorough instruction of all employees concerning the aforesaid hazards and in first aid and emergency methods of meeting such hazards and shall further provide, in a conveniently accessible place, all necessary equipment and material therefor.

**FOURTEEN:** Cross connections between the potable water supply and the sewerage system constitute a potential danger to the public health. Therefore, all direct and indirect connections whereby under normal or abnormal conditions the potable water supply may become contaminated from an inferior water supply from any unit of the sewage treatment works, or by any appurtenance thereof or from any part of a sewerage system are hereby specifically prohibited. The permittee is further warned against permitting to be made permanent any temporary connection with a potable supply designed to be held in place while being used for flushing or other purposes, and is also cautioned against the danger of back siphonage through portable hose lines and similar avenues of possible contamination.

**FIFTEEN:** This permit authorizes the construction and operation of the proposed sewerage facilities until such time as facilities for conveyance and treatment at a more suitable location are installed and are capable of receiving and treating the permittee's sewage. Such facilities must be in accordance with either the applicable municipal official plan adopted pursuant to Section 5 of the Pennsylvania Sewage Facilities Act, the Act of January 24, 1956, P.L. 1535, as amended, or a comprehensive Water Quality Management Plan as set forth in Section 91.31 of the Rules and Regulations of the Department. When such municipal sewerage facilities become available, the permittee shall provide for the conveyance of the sewage to these sewerage facilities, abandon the use of the herein-approved facilities and notify the Department accordingly. This permit shall then, upon notice from the Department, terminate and become null and void, and shall be relinquished to the Department.

**SIXTEEN:** The permittee shall construct the sewerage facilities in a manner compatible with good conservation methods in order to minimize the adverse effect on the environment.

**SEVENTEEN:** The local waterways patrolman of the Pennsylvania Fish Commission shall be notified when the construction of a stream crossing and outfall is started and completed. A permit must be secured from the Pennsylvania Fish Commission if the use of explosives is required. The permittee shall notify the local waterways patrolman when explosives are to be used.

**EIGHTEEN:** If future operations by the Commonwealth of Pennsylvania require modifications of the stream crossing and/or outfall, or there shall be unreasonable obstruction to the free passage of floods or navigation from the stream crossing and/or outfall, permittee shall remove or alter the structural work or obstruction without expense to the Commonwealth of Pennsylvania. If upon the revocation of the permit, the work shall not be completed, the permittee, at his own expense and in such time and manner as the Department may require, shall remove any or all portions of the incompleated work and restore the water-course to its former condition. No claims shall be made against the Commonwealth of Pennsylvania on account of any such removal or alteration.

**NINETEEN:** The sewage treatment plant shall be operated by an operator certified in accordance with the Sewage Treatment Plant and Waterworks Operators' Certification Act, the Act of November 18, 1968, - P.L. 1217, as amended.

**TWENTY:** All industrial waste discharged or proposed for discharge into the sewer system shall be studied to determine the degree of pretreatment necessary in order that the industrial waste will not adversely affect the sewerage facilities or the sewage treatment process. The permittee shall properly control any industrial waste discharge into its sewerage system by regulating the rate of such discharge, requiring necessary pretreatment, and excluding industrial waste, if necessary, to protect the integrity of the permittee's sewerage system.

**TWENTY-ONE:** Receipt of this permit does not relieve the permittee of its obligations to comply with all federal, interstate, state, or local laws, ordinances, and regulations applicable to the sewerage facilities authorized herein.

**TWENTY-TWO:** This permit does not give any real or personal property rights or grant any exclusive privileges, nor shall it be construed to grant or confirm any right, title, easement, or interest in, on, to, or over any lands belonging to the Commonwealth.

Pennsylvania Power & Light Co.  
c/o Mr. Jerry Fields  
Two North Ninth Street  
Allentown, PA . 18101

Sewerage Permit No. 4085411  
Pennsylvania Power & Light Company  
(Susquehanna Steam Electric Station)  
Salem Township, Luzerne County

STATE OF PENNSYLVANIA  
COUNTY OF LUZERNE. } SS

*Lawrence A. Pawlush*  
LAWRENCE A. PAWLUSH  
WATER QUALITY REGIONAL MANAGER

On the 7th day of October in the  
year one thousand nine hundred and eighty five before  
me, the Subscriber, a Notary Public, came the above named

LAWRENCE A. PAWLUSH, WATER QUALITY REGIONAL MANAGER

and duly acknowledged the foregoing permit to be his act and deed and  
desired that the same might be recorded as such.

Witness my hand and notarial seal the day and year afore-  
said.

*MaryAnn A. Bitterbender*  
NOTARY PUBLIC  
NOTARY PUBLIC  
Wright Twp., Luzerne County, Pa  
My Commission Expires 12/1/1987

ER-870-68: Rev. 4/73  
Pennsylvania Power & Light Co.  
c/o Mr. Jerry Fields  
Two North Ninth Street  
Allentown, PA 18101

Sewerage Permit No. 4085411  
Pennsylvania Power & Light Company  
(Susquehanna Steam Electric Station)  
Salem Township, Luzerne County

Commonwealth of Pennsylvania  
Department of Environmental Resources

RECEIVED  
NOV 04 1985  
NUCLEAR DEPT.

RECORDER OF DEEDS CERTIFICATE

I hereby certify that on 10-31-85 (Date)  
there was recorded in Book 2175  
page 851 the sewerage permit issued  
to Salem Twp  
bearing date of 10-7-85

Frank C. Costello  
Recorder of Deeds for  
Luzerne County