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SUBJECT:
FORWARDING THE WATER QUALITY MANAGEMENT PERMIT RECEIVED FROM THE PA DEPT OF ENVIRON RESOURCES FOR SUSQUEHANNA SES.

PLANT NAME: SUSQUEHANNA - UNIT 1
SUSQUEHANNA - UNIT 2

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PP&L

TWO NORTH NINTH STREET, ALLENTOWN, PA. 18101 PHONE: (215) 821-5151

FEB 22 1978

Mr. William H. Regan, Jr., Chief
Environmental Projects Branch 3
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Docket Nos. 50-387
50-388

SUSQUEHANNA STEAM ELECTRIC STATION
WATER QUALITY MANAGEMENT PERMIT
ER 100450 FILE 991-2
PLA-222

Dear Mr. Regan:

Attached for your information is the Water Quality Management Permit which was received from the Pennsylvania Department of Environmental Resources for Susquehanna SES.

Very truly yours,

N.W. Curtis

N.W. Curtis
Vice President-Engineering and Construction

Copies 1/1

ER-BWQ-15: Rev. 3/77

RECEIVED
NOV 16 1977
ENVIR ENG

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

WATER QUALITY MANAGEMENT PERMIT

NO. 4076203

A. PERMITTEE: (Name and Address)

Pennsylvania Power & Light Company
2 North Ninth Street
Allentown, PA 18101

B. PROJECT LOCATION

Municipality: Salem Township

County: Luzerne

C. TYPE OF FACILITY (For industrial wastes, type of establishment)

Nuclear Steam Electric Generating Station

D. NAME OF MINE, PLANT, AREA SERVED, OUTFALL NO., ETC.

Susquehanna Steam Electric Station

E. THIS PERMIT APPROVES:

1. Plans For Construction Of:

- a. [ ] Pump Stations, Sewers and Appurtenances
- b. [ ] Sewage Treatment Facilities
- c. [X] Industrial Wastes Treatment Facilities
- d. [ ] Mine Drainage Treatment Facilities
- e. [X] Outfall & Headwall
- f. [ ] Stream Crossing
- g. [ ] Impoundment

2. The Discharge Of:

- a. [X] Treated
- b. [ ] Untreated
- c. [ ] Sewage
- d. [X] Industrial Wastes

3. Discharge To:

- a. [X] Surface Water
- b. [ ] Ground Water

North Branch Susquehanna River

Name of Stream to which discharged or drainage area in which groundwater discharge takes place or impoundment is located.

4. The Operation of a Mine [ ]

Maximum Area to be Deep Mined _____ Acres

5. An Erosion and Sedimentation Control Plan [ ]

Project Area is _____ Acres

F. THIS APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:

1. ALL CONSTRUCTION, OPERATIONS, PROCEDURES AND DISCHARGE SHALL BE IN ACCORDANCE WITH APPLICATION NO. 4076203 DATED September 27, 1976, ITS SUPPORTING DOCUMENTATION AND AMENDMENTS DATED January 26, 1977, SUCH APPLICATION, ITS SUPPORTING DOCUMENTATION, AND AMENDMENTS ARE HEREBY MADE A PART OF THIS PERMIT.
2. CONDITIONS NUMBERED 1 through 21 inclusive OF THE Industrial Wastes STANDARD CONDITIONS DATED October 1, 1971 AND CONDITIONS NUMBERED 1 thru 20 inclusive OF THE EROSION CONTROL STANDARD CONDITIONS DATED 1973 WHICH CONDITIONS ARE ATTACHED AND MADE PART OF THIS PERMIT.
3. SPECIAL CONDITION(S) DESIGNATED - A, B, C, D & E 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 OR 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.

PERMIT ISSUED

DATE MAY 25 1977

DEPARTMENT OF ENVIRONMENTAL RESOURCES

BY [signature]

Ernest E. Giovannitti, Chief

TITLE Division of Industrial Wastes & Erosion Regulation

This permit is issued subject to all Rules and Regulations now in force, and the following Special Conditions:

A. Waterborne releases of radioactive material to unrestricted areas shall conform to criteria set forth in Title 10 Code of Federal Regulation Part 50 Appendix I - Numerical Guides for Design Objectives and Limiting Conditions for Operation to Meet the Criterion "As Low As Practicalbe" for Radioactive Material in Light-Water-Cooled Nuclear Power Reactor Effluents, as implemented through the Environmental Technical Specifications.

B. The facility operator shall provide the Department with copies of reports specifying the quantities of radioactive materials released to unrestricted areas in liquid/gaseous effluents.

C. The facility operator shall provide the Department with copies of reports of the results of environmental survillance activities and such other reports as necessary for the estimation of the dose consequential to facility operation.

D. This activity is subject to the jurisdiction of the Susquehanna River Basin Commission. Approval of that commission is required before discharge.

E. The plant hereby approved is required to effect that treatment which will produce an effluent containing polluting constituents in concentrations now exceeding the values listed in Modules 4-1 (4) through 4-3 (4) and the addendums supplementing the application; will provide satisfactory disposal of sludge; and will reduce the quantities of greases, acids, alkalis, toxic, taste and odor producing substances, color and other substances inimical to the public interest to levels that will not pollute the receiving stream.

October 1971

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF ENVIRONMENTAL RESOURCES

STANDARD CONDITIONS RELATING TO INDUSTRIAL WASTES

For use in Water Quality Management Permits

1971

General

1. The plans for which this permit is issued are approved subject to the condition that the waste treatment plant constructed under said plans will produce an effluent satisfactory to the Department. By this approval, neither the Department nor the Commonwealth of Pennsylvania assumes any responsibility for the feasibility of the plans or the operation of the plant to be constructed thereunder.

2. All relevant and non-superseded conditions of any prior water quality management permits, decrees, or orders issued to the herein permittee or his predecessor shall be continued in full force and effect and together with the provisions of this permit shall apply to his successors, lessees, heirs and assigns.

3. The responsibility for the carrying out of the conditions of this permit shall rest upon the owner, lessee, assignee, or other party in responsible managerial charge of the operation producing the wastewaters and of the waste treatment works herein approved, such responsibility passing with each succession in said control. Approval of a discharge or facilities under a permit shall not be effective as to a new owner until a transfer has been executed and filed on forms provided by the Department and the transfer is approved by the Department.

4. The permittee shall secure any necessary permission from the proper federal authority for any outfall or industrial waste treatment structure which discharges into or enters navigable waters and shall obtain approval of any stream crossing, encroachment or change of natural stream conditions coming within the jurisdiction of the Department.

5. In order to avoid obsolescence of the plans of waste treatment works, the approval of the plans herein granted, and the authority granted in the permit, if not specifically extended, shall cease and be null and void two years from the date of this permit unless the works covered by said plans shall have been completed and placed in operation on or before that date.

6. Approval of plans refers to functional design and not structural stability, which is assumed to be sound and in accordance with good structural design. Failure of the works herein approved because of faulty structural design or poor construction will render the permit void.

7. The Department may at a subsequent time modify, suspend or revoke this permit whenever the waters affected by the presently authorized waste discharge have become so improved in character through natural or artificial processes of conservation or reclamation as to render inimical or harmful the effluent from the works herein approved, or whenever the Department increases treatment requirements for wastes generally.

Therefore, the permittee is hereby notified that when the Department shall have determined that the public interest requires the further treatment of such of the permittee's industrial wastes as are discharged to the waters of the Commonwealth, then upon notice by the Department and within the time specified, the permittee shall submit to the Department for its approval, plans and a report providing for the required degree of treatment, and after approval thereof, shall construct such works in accordance with the requirements of the Department.

8. If at any time the industrial waste treatment works of the permittee, or any part thereof, or the discharge of the effluent therefrom, shall have created a public nuisance, or such discharge is causing or contributing to pollution of the waters of the Commonwealth, the permittee shall forthwith adopt such remedial measures as are acceptable to the Department.

9. Nothing herein contained shall be construed to be an intent on the part of the Department to approve any act made or to be made by the permittee inconsistent with the permittee's lawful powers or with existing laws of the Commonwealth regulating industrial wastes and the practice of professional engineering, nor shall this permit be construed to sanction any act otherwise forbidden by any of the laws of the Commonwealth of Pennsylvania or of the United States.

Construction

10. The works shall be constructed under expert engineering supervision and competent inspection, and in accordance with plans, designs, and other data as herein approved or amended, and with the conditions of this permit.

11. No radical changes shall be made in the works herein approved without approval of the Department. Revisions which do not increase the rate of flow or change the quality of the effluent, the treatment processes or the point of discharge, may be approved by the Regional Sanitary Engineer upon submission of plans. Other revisions must be approved by a permit.

12. The outfall sewer or drain shall be extended to low water mark of the receiving body of water in such a manner as to insure the satisfactory dispersion of its effluent thereinto; insofar as practicable it shall have its outlet submerged; and shall be constructed of cast iron, concrete, or other material approved by the Department; and shall be so protected against the effects of flood water, ice, or other hazards as to reasonably insure its structural stability and freedom from stoppage.

13. When the herein approved industrial waste treatment works is completed and before it is placed in operation, the permittee shall notify the Department so that an inspection of the works may be made by a representative of the Department.

Operation and Maintenance

14. No matter how well designed and carefully constructed a waste treatment works may be, full effectiveness cannot be developed unless it is efficiently operated. In order to secure such efficiency, protect the waters of the Commonwealth, and insure the most effective and economical dosage when chemicals are used, the permittee is required to place the works under the regular charge of a responsible plant official, and its operation under the control of the designer of the works or other qualified person approved by the Department, for at least one year after completion. Moreover, upon written notice from the Department, the permittee shall maintain one or more skilled operators regularly on duty for such daily periods as the Department may direct.

15. The right to discharge the effluent from the herein approved industrial waste treatment works into the waters of the Commonwealth is contingent upon such operation of these works as will at all times produce an effluent of a quality satisfactory to the Department. 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 said effluent ceases to be satisfactory for such discharge, then upon notice by the Department the right herein granted to discharge such effluent 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 for discharge into the said receiving body of water.

16. No untreated or ineffectively treated wastewaters shall at any time be discharged into the waters of the Commonwealth, and especial care shall be used to prevent accidental "spills" or similar unusual discharges of all raw, finished and waste materials.

17. No storm water, sewage or other industrial wastes not specifically approved herein, shall be admitted to the works for which this permit is issued, unless with the approval of the Department.

18. The various structures and apparatus of the industrial waste treatment works herein approved shall be maintained in proper condition so that they will individually and collectively perform the functions for which they were designed. In order to insure the efficacy and proper maintenance of the treatment works, the permittee shall make periodic inspections at sufficiently frequent intervals to detect any impairment of the structural stability, adequate capacity, or other requisites of the herein approved works which might impair their effectiveness, and shall take immediate steps to correct any such impairment found to exist.

19. Any screenings, and any settled or floated solids, shall at no time be permitted to accumulate in sedimentation basins to a depth sufficient to interfere with the settling efficiency thereof. Any such material removed shall be handled and disposed of so that a nuisance is not created and so that every reasonable and practical precaution is taken to prevent the said material from reaching the waters of the Commonwealth.

20. The permittee shall keep records of operation and efficiency of the waste treatment works and shall submit to the Department, promptly at the end of each month, such report thereon as may be required by the Department.

21. The discharge of untreated or improperly treated industrial wastes to the waters of the Commonwealth is contrary to the requirements of the Department. If, because of accidental breakdown of the treatment works or plant equipment or for other reason, any such discharge should occur, then the operation of the mill or process producing such discharge shall be discontinued until repairs to the treatment works or other satisfactory measures to prevent water pollution shall have been completed.

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF ENVIRONMENTAL RESOURCES

STANDARD CONDITIONS RELATING TO EROSION CONTROL

For use in Water Quality Management Permits

1973

General

1. By approval of the plans for which this permit is issued, neither the Department nor the Commonwealth of Pennsylvania assumes any responsibility for the feasibility of the plans or the operation of the measures and facilities to be constructed thereunder.

2. All relevant conditions of any prior water quality management permits, decrees, or orders issued to the herein permittee or his predecessor shall be continued in full force and effect unless explicitly superseded by this permit. The provisions of this permit shall apply to the permittee's successors, lessees, heirs and assigns.

3. The responsibility for the carrying out of the conditions of this permit shall rest upon the owner, lessee, assignee, or other party in responsible managerial charge of the earthmoving affecting the runoff and of the erosion control facilities herein approved, such responsibility passing with each succession in said control. Approval of measures and facilities under a permit shall not be effective as to a new owner until a transfer has been executed and filed on forms provided by the Department and the transfer is approved by the Department.

4. The permittee shall secure any necessary permission from the proper federal authority for any outfall or structure which discharges into or enters navigable waters.

5. In order to avoid obsolescence of the plans of erosion control measures and facilities, the approval of the plans herein granted, and the authority granted in the permit, if not specifically extended, shall cease and be null and void two years from the date of this permit unless the erosion control measures and facilities covered by said plans shall have been completed and placed in operation on or before that date. Also, cancellation of permits by the Regional Sanitary Engineer or Water Quality Manager may be possible six months after construction has ended.

6. Approval of plans refers to functional design and not constructional stability, which is assumed to be sound and in accordance with good structural design. Failure of the measures and facilities herein approved because of faulty structural design or poor construction will render the permit void.

7. If at any time the activities undertaken pursuant to this permit or the discharge of the effluent therefrom is causing or contributing to pullution of the waters of the Commonwealth, the permittee shall forthwith adopt such remedial measures as are acceptable to the Department.

8. The Clean Streams Law and the Regulations promulgated thereunder are incorporated into and made part of this permit.

9. The permittee shall have his erosion control plan available at the site of the activity at all times.

Construction

10. At least seven days before earthmoving will begin, the permittee, by certified mail, shall notify the Regional Sanitary Engineer or Water Quality Manager of the date for beginning of construction.

11. All earthmoving activities shall be undertaken in such a manner as to minimize the areal extent of disturbed land.

12. All surface water upslope of the project area shall be kept away by diverting the water around the project area.

13. The erosion control measures and facilities shall be constructed under expert professional supervision and competent inspection, and in accordance with plans, designs, and other data as herein approved or amended, and with the conditions of this permit.

14. No radical changes shall be made in the measures and facilities herein approved without approval of the Deaprtment. Revisions which do not change the control measures and facilities or the points of discharge may be approved by the Regional Sanitary Engineer or Water Quality Manager upon submission of plans. Other revisions must be approved by a permit.

15. When the herein approved erosion control measures and facilities are completed, the permittee shall notify the Department so that an inspection of the measures and facilities may be made by a representative of the Department.

Operation and Maintenance

16. No storm water, sewage or industrial wastes not specifically approved herein, shall be admitted to the measures and facilities for which this permit is issued, unless with the approval of the Department

17. The erosion control measures and facilities herein approved shall be maintained in proper condition so that they will individually and collectively perform the functions for which they were designed. In order to insure the efficacy and proper maintenance of the measures and facilities, the permittee shall make periodic inspections at sufficiently frequent intervals to detect any impairment of the structural stability, adequate capacity, or other requisites of the herein approved measures and facilities which might impair their effectiveness, and shall take immediate steps to correct any such impairment found to exist.

18. Sediment shall at no time be permitted to accumulate in sedimentation basins to a depth sufficient to limit storage capacity or interfere with the settling efficiency thereof. Any such material removed shall be handled and disposed of so that a problem is not created and so that every reasonable and practical precaution is taken to prevent the said material from reaching the waters of the Commonwealth.

19. All slopes, channels, ditches or any disturbed area shall be stabilized as soon as possible after the final grade or final earthmoving has been completed. Where it is not possible to permanently stabilize a disturbed area immediately after the final earthmoving has been completed or where the activity ceases for more than 20 days, interim stabilization measures shall be implemented promptly.

20. Upon completion of the project, all areas which were disturbed by the project shall be stabilized so that accelerated erosion will be prevented. Any erosion and sedimentation control facility required or necessary to protect areas from erosion during the stabilization period shall be maintained until stabilization is completed. Upon completion of stabilization, all unnecessary or unusable control measures and facilities shall be removed, the areas shall be graded and the soils shall be stabilized.

DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WATER QUALITY MANAGEMENT
REGIONAL OFFICES

REGIONAL SANITARY ENGINEERS/WATER QUALITY MANAGERS

REGIONAL HEADQUARTERS	COUNTIES COVERED	
C. T. Beechwood Regional Sanitary Engineer 1875 New Hope Street Norristown, Pennsylvania 19401 Tel: 215-631-2405	Bucks Chester Delaware Montgomery Philadelphia	
Lawrence Pawlush Regional Water Quality Manager 90 E. Union Street 2nd Floor Wilkes-Barre, Pennsylvania 18703 Tel: 717-826-2553	Bradford Lackawanna Luzerne Monroe Pike	Sullivan Susquehanna Tioga Wayne Wyoming
George Parks Regional Water Quality Manager 16 Angelica Street Reading, Pennsylvania 19611 Tel: 215-378-4359	Berks Carbon Lehigh Northampton Schuylkill	
Terry R. Fabian Regional Water Quality Manager Room 1003, Health & Welfare Building Harrisburg, Pennsylvania 17120 Tel: 717-787-9665 or 9860	Adams Cumberland Dauphin Franklin Lancaster	Lebanon Perry York
Mark A. Roller Regional Sanitary Engineer 736 West Fourth Street Williamsport, Pennsylvania 17701 Tel: 717-326-2681, Ext. 258	Bedford Blair Cambria Centre Clinton Columbia Fulton Huntingdon	Juniata Lycoming Mifflin Montour Northumberland Snyder Somerset Union
Jose del Rio Regional Sanitary Engineer 600 Kossman Building 100 Forbes Avenue Pittsburgh, Pennsylvania 15222 Tel: 412-565-5091	Allegheny Armstrong Beaver Butler Fayette	Greene Indiana Washington Westmoreland
Homer Fry Regional Sanitary Engineer 1012 Water Street Meadville, Pennsylvania 16335 Tel: 814-724-0550	Cameron Clarion Clearfield Crawford Elk Erie Forest	Jefferson Lawrence McKean Mercer Potter Venango Warren