

NOV 8 1973

Docket Nos. 50-387
and 50-388

Pennsylvania Power & Light Company

ATTN: Austin Gavin

Executive Vice President

901 Hamilton Street

Allentown, Pennsylvania 18101

Gentlemen:

Pursuant to an Initial Decision by the Atomic Safety and Licensing Board, the Atomic Energy Commission has issued Construction Permits CPPR-101 and CPPR-102 to the Pennsylvania Power and Light Company authorizing construction of the Susquehanna Steam Electric Station, Units 1 & 2.

A copy of the Initial Decision, Construction Permits CPPR-101 & CPPR-102, and a related notice which has been forwarded to the Office of the Federal Register for publication are enclosed.

Sincerely,

Voss A. Moore
Assistant Director

Voss A. Moore, Assistant Director
for Boiling Water Reactors
Directorate of Licensing

Enclosures:

1. Initial Decision
2. Construction Permits: CPPR-101 & CPPR-102
3. Federal Register Notice

L:BWR

cc w/enclosures: (see next page)

bcc: J. R. Buchanan, ORNL
T. B. Abernathy, DTIE
A. Rosenthal, ASLAB
N. H. Goodrich, ASLBP

VAMoore
8/21/73

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OFFICE ▶	L: BWR-1	L: BWR*1	L: BWR-1	OGC	O&I	EP
SURNAME ▶	MJMaigret	WPaulson	WButler		JSaltzman	DMuller
DATE ▶	8/21/73	8/21/73	8/21/73	8/21/73	8/21/73	8/21/73

cc w/enclosures:

Mr. William Barberich
Pennsylvania Power & Light Company
901 Hamilton Street
Allentown, Pennsylvania 18101

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Mr. R. A. Heiss, Coordinator w/o enclosures
Pennsylvania State Clearinghouse
Governor's Office of State Planning
and Development
P. O. Box 1323
Harrisburg, Pennsylvania 17120

Mr. Thomas M. Cerusky, Director (w/2 encls enclosures)
Office of Radiological Health
Department of Environmental Resources
P. O. Box 2053
Harrisburg, Pennsylvania 17105

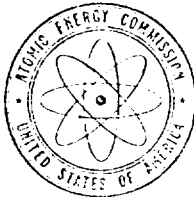
Mr. Albert Clark, President
Board of Supervisors
738 East Third Street
Berwick, Pennsylvania 18607

Federal Power Commission
Washington, D. C. 20426

The Pennsylvania Public Utility Commission
P. O. Box 3265
Harrisburg, Pennsylvania 17120

Mr. Warren D. Hodges, Director
Department of State Planning
301 West Preston Street
Baltimore, Maryland 21201

OFFICE ▶						
SURNAME ▶						
DATE ▶						



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

PENNSYLVANIA POWER & LIGHT COMPANY

DOCKET NO. 50-387

SUSQUEHANNA STEAM ELECTRIC STATION

UNIT 1

CONSTRUCTION PERMIT

Construction Permit No. CPPR-101

1. The Atomic Energy Commission (the Commission) having found that:
 - A. The application for construction permit complies with the requirements of the Atomic Energy Act of 1954, as amended, and the rules and regulations of the Commission, there is reasonable assurance that the activities authorized by the permit will be conducted in compliance with the rules and regulations of the Commission, and all required notifications to other agencies or bodies have been duly made;
 - B. The Pennsylvania Power & Light Company (the Applicant) has described the proposed design of the Susquehanna Steam Electric Station, Unit 1 (the facility), including, but not limited to, the principal architectural and engineering criteria for the design and has identified the major features or components incorporated therein for the protection of the health and safety of the public;
 - C. Such further technical or design information as may be required to complete the safety analysis, and which can reasonably be left for later consideration, will be supplied in the final safety analysis report;
 - D. Safety features or components, if any, which require research and development have been described by the applicant and the applicant has identified, and there will be conducted, a research and development program reasonably designed to resolve any safety questions associated with such features or components;


- E. On the basis of the foregoing, there is reasonable assurance that (i) such safety questions will be satisfactorily resolved at or before the latest date stated in the application for completion of construction of the proposed facility and (ii) taking into consideration the site criteria contained in 10 CFR Part 100, the proposed facility can be constructed and operated at the proposed location without undue risk to the health and safety of the public;
 - F. The applicant is technically qualified to design and construct the proposed facility;
 - G. The applicant is financially qualified to design and construct the proposed facility;
 - H. The issuance of a permit for the construction of the facility will not be inimical to the common defense and security or to the health and safety of the public; and
 - I. After weighing the environmental, economic, technical and other benefits of the facility against environmental costs and considering available alternatives, the issuance of a construction permit (subject to the conditions for protection of the environment set forth herein) is in accordance with 10 CFR Part 50, Appendix D, of the Commission's regulations and all applicable requirements of said Appendix D have been satisfied.
2. Pursuant to Section 103 of the Atomic Energy Act of 1954, as amended (the Act), and Title 10, Chapter I, Code of Federal Regulations, Part 50, "Licensing of Production and Utilization Facilities," and pursuant to the Initial Decision of the Atomic Safety and Licensing Board, dated October 29, 1973, the Atomic Energy Commission (the Commission) hereby issues a construction permit to the Applicant for a utilization facility designed to operate at 3293 megawatts thermal as described in the application and amendments thereto (the application) filed in this matter by the Applicant and as more fully described in the evidence received at the public hearing upon that application. The facility, known as the Susquehanna Steam Electric Station, Unit 1, will be located on the Applicant's site in Salem Township, Luzerne County, Pennsylvania.

3. This permit shall be deemed to contain and be subject to the conditions specified in Sections 50.54 and 50.55, of said regulations; is subject to all applicable provisions of the Act, and rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the conditions specified or incorporated below:
 - A. The earliest date for the completion of the facility is March 1, 1979, and the latest date for completion is March 1, 1981.
 - B. The facility shall be constructed and located at the site as described in the application, in Salem Township, Luzerne County, Pennsylvania.
 - C. This construction permit authorizes the applicant to construct the facility described in the application and the hearing record, in accordance with the principal architectural and engineering criteria set forth therein.
 - D. This construction permit is subject to the following environmental conditions:
 1. During construction, the Applicant will reseed transmission line rights-of-way and access roads where soil has been disturbed. After construction is completed, surveys for erosion will be conducted; and reseeding, where necessary, will be done. Only registered herbicides will be used for right-of-way maintenance.
 2. A list of chemicals used for preoperational cleaning and methods of disposal will be submitted to the staff for approval prior to their use.
 3. The Applicant shall implement a comprehensive preoperational environmental monitoring program considered by the AEC Licensing Staff (Staff) to be adequate to determine environmental effects which may occur to land and water ecosystems as a result of site preparation and Station construction and operation. If a major change in the ecology of the Susquehanna River (such as the successful reintroduction of a shad run to the upper reaches) necessitates a reevaluation of the adverse environmental effects, the Applicant will make such an evaluation and submit a plan for the mitigation of these effects to the Staff for approval.
 4. The Applicant will conduct a preoperational radiological monitoring program considered by the Staff to be adequate to

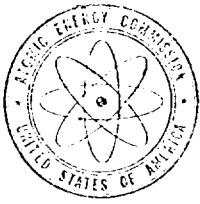
establish the baseline necessary for determination of any radiological effects on the environment from operation of the Station.

5. If harmful effects or evidence of irreversible damage are detected by the monitoring programs, the Applicant will provide to the Staff an analysis of the problem and a plan of action to be taken to eliminate or significantly reduce the detrimental effects or damage.
- E. In view of the fact that the Attorney General has not recommended an antitrust hearing in this matter, that no antitrust issues have been raised by another in a manner in accord with the Commission's Rules of Practice, and that no finding has been made that an antitrust hearing is otherwise required (10 CFR, Part 2, §2.104(d)), antitrust review of the application for this construction permit under Section 105c of the Atomic Energy Act of 1954, as amended, has been completed and a hearing thereon determined to be unnecessary.
4. This permit is subject to the limitation that a license authorizing operation of the facility will not be issued by the Commission unless (a) the Applicant submits to the Commission the complete final safety analysis report, portions of which may be submitted and evaluated from time to time; (b) the Commission finds that the final design provides reasonable assurance that the health and safety of the public will not be endangered by the operation of the facility in accordance with procedures approved by it in connection with the issuance of said license; (c) the Commission finds that operation of the facility will be in accordance with 10 CFR Part 50, Appendix D, of the Commission's regulations and all applicable requirements of said Appendix D were satisfied; and (d) the Applicant submits proof of financial protection and the execution of an indemnity agreement as required by Section 170 of the Act.
5. This permit is effective as of its date of issuance and shall expire on the latest completion date indicated in paragraph 3.A above.

FOR THE ATOMIC ENERGY COMMISSION


A. Giambusso, Deputy Director
for Reactor Projects
Directorate of Licensing

Date of Issuance: 11/27 9 1973



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

PENNSYLVANIA POWER & LIGHT COMPANY

DOCKET NO. 50-388

SUSQUEHANNA STEAM ELECTRIC STATION

UNIT 2

CONSTRUCTION PERMIT

Construction Permit No. CPPR-102

1. The Atomic Energy Commission (the Commission) having found that:
 - A. The application for construction permit complies with the requirements of the Atomic Energy Act of 1954, as amended, and the rules and regulations of the Commission, there is reasonable assurance that the activities authorized by the permit will be conducted in compliance with the rules and regulations of the Commission, and all required notifications to other agencies or bodies have been duly made;
 - B. The Pennsylvania Power & Light Company (the Applicant) has described the proposed design of the Susquehanna Steam Electric Station, Unit 2 (the facility), including, but not limited to, the principal architectural and engineering criteria for the design and has identified the major features or components incorporated therein for the protection of the health and safety of the public;
 - C. Such further technical or design information as may be required to complete the safety analysis, and which can reasonably be left for later consideration, will be supplied in the final safety analysis report;
 - D. Safety features or components, if any, which require research and development have been described by the applicant and the applicant has identified, and there will be conducted, a research and development program reasonably designed to resolve any safety questions associated with such features or components;

- E. On the basis of the foregoing, there is reasonable assurance that (i) such safety questions will be satisfactorily resolved at or before the latest date stated in the application for completion of construction of the proposed facility and (ii) taking into consideration the site criteria contained in 10 CFR Part 100, the proposed facility can be constructed and operated at the proposed location without undue risk to the health and safety of the public;
 - F. The applicant is technically qualified to design and construct the proposed facility;
 - G. The applicant is financially qualified to design and construct the proposed facility;
 - H. The issuance of a permit for the construction of the facility will not be inimical to the common defense and security or to the health and safety of the public; and
 - I. After weighing the environmental, economic, technical and other benefits of the facility against environmental costs and considering available alternatives, the issuance of a construction permit (subject to the conditions for protection of the environment set forth herein) is in accordance with 10 CFR Part 50, Appendix D, of the Commission's regulations and all applicable requirements of said Appendix D have been satisfied.
2. Pursuant to Section 103 of the Atomic Energy Act of 1954, as amended (the Act), and Title 10, Chapter I, Code of Federal Regulations, Part 50, "Licensing of Production and Utilization Facilities," and pursuant to the Initial Decision of the Atomic Safety and Licensing Board, dated October 29, 1973, the Atomic Energy Commission (the Commission) hereby issues a construction permit to the Applicant for a utilization facility designed to operate at 3293 megawatts thermal as described in the application and amendments thereto (the application) filed in this matter by the Applicant and as more fully described in the evidence received at the public hearing upon that application. The facility, known as the Susquehanna Steam Electric Station, Unit 2, will be located on the Applicant's site in Salem Township, Luzerne County, Pennsylvania.

3. This permit shall be deemed to contain and be subject to the conditions specified in Sections 50.54 and 50.55, of said regulations; is subject to all applicable provisions of the Act, and rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the conditions specified or incorporated below:
 - A. The earliest date for the completion of the facility is September 1, 1980, and the latest date for completion is September 1, 1982.
 - B. The facility shall be constructed and located at the site as described in the application, in Salem Township, Luzerne County, Pennsylvania.
 - C. This construction permit authorizes the applicant to construct the facility described in the application and the hearing record, in accordance with the principal architectural and engineering criteria set forth therein.
 - D. This construction permit is subject to the following environmental conditions:
 1. During construction, the Applicant will reseed transmission line rights-of-way and access roads where soil has been disturbed. After construction is completed, surveys for erosion will be conducted; and reseeded, where necessary, will be done. Only registered herbicides will be used for right-of-way maintenance.
 2. A list of chemicals used for preoperational cleaning and methods of disposal will be submitted to the staff for approval prior to their use.
 3. The Applicant shall implement a comprehensive preoperational environmental monitoring program considered by the AEC Licensing Staff (Staff) to be adequate to determine environmental effects which may occur to land and water ecosystems as a result of site preparation and Station construction and operation. If a major change in the ecology of the Susquehanna River (such as the successful reintroduction of a shad run to the upper reaches) necessitates a reevaluation of the adverse environmental effects, the Applicant will make such an evaluation and submit a plan for the mitigation of these effects to the Staff for approval.
 4. The Applicant will conduct a preoperational radiological monitoring program considered by the Staff to be adequate to

establish the baseline necessary for determination of any radiological effects on the environment from operation of the Station.

5. If harmful effects or evidence of irreversible damage are detected by the monitoring programs, the Applicant will provide to the Staff an analysis of the problem and a plan of action to be taken to eliminate or significantly reduce the detrimental effects or damage.
- E. In view of the fact that the Attorney General has not recommended an antitrust hearing in this matter, that no antitrust issues have been raised by another in a manner in accord with the Commission's Rules of Practice, and that no finding has been made that an antitrust hearing is otherwise required (10 CFR, Part 2, §2.104(d)), antitrust review of the application for this construction permit under Section 105c of the Atomic Energy Act of 1954, as amended, has been completed and a hearing thereon determined to be unnecessary.
4. This permit is subject to the limitation that a license authorizing operation of the facility will not be issued by the Commission unless (a) the Applicant submits to the Commission the complete final safety analysis report, portions of which may be submitted and evaluated from time to time; (b) the Commission finds that the final design provides reasonable assurance that the health and safety of the public will not be endangered by the operation of the facility in accordance with procedures approved by it in connection with the issuance of said license; (c) the Commission finds that operation of the facility will be in accordance with 10 CFR Part 50, Appendix D, of the Commission's regulations and all applicable requirements of said Appendix D were satisfied; and (d) the Applicant submits proof of financial protection and the execution of an indemnity agreement as required by Section 170 of the Act.
5. This permit is effective as of its date of issuance and shall expire on the latest completion date indicated in paragraph 3.A above.

FOR THE ATOMIC ENERGY COMMISSION

A. Giambusso
A. Giambusso, Deputy Director
for Reactor Projects
Directorate of Licensing

Date of Issuance: NOV 2 1973

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NOS. 50-387 AND 50-388

PENNSYLVANIA POWER & LIGHT COMPANY

NOTICE OF AVAILABILITY OF INITIAL DECISION OF THE ATOMIC SAFETY
AND LICENSING BOARD FOR THE SUSQUEHANNA STEAM ELECTRIC STATION,
UNITS 1 & 2 AND ISSUANCE OF CONSTRUCTION PERMITS

Pursuant to the National Environmental Policy Act of 1969 and the United States Atomic Energy Commission's regulation in Appendix D, Section A.9 and A.11, to 10 CFR Part 50, notice is hereby given that an Initial Decision, dated October 29, 1973, by the Atomic Safety and Licensing Board in the above captioned proceeding authorizing issuance of construction permits to the Pennsylvania Power & Light Company for construction of the Susquehanna Steam Electric Station, Units 1 & 2, located in Salem Township, Luzerne County, Pennsylvania, is available for inspection by the public in the Commission's Public Document Room at 1717 H Street, N.W., Washington, D. C. and in the Osterhout Free Library, 71 South Franklin Street, Wilkes-Barre, Pennsylvania 18701.

The Initial Decision is also being made available at the Office of Radiological Health, Department of Environmental Resources, 5th Floor Fulton Building, 3rd & Locust Street, Harrisburg, Pennsylvania 17120.

Based upon the record developed in the public hearing in the above captioned matter, the Initial Decision modified in certain aspects the contents of the Final Environmental Statement relating to the construction of the Susquehanna Steam Electric Station, prepared by the Commission's Directorate of Licensing. Pursuant to the provisions of 10 CFR Part 50, Appendix D, Section A.11, the Final Environmental Statement is deemed modified to the extent that the findings and conclusions relating to environmental matters contained in the Initial Decision are different from those contained in the Final Environmental Statement, dated June 1973. As required by Section A.11 of Appendix D, a copy of the Initial Decision, which

modifies the Final Environmental Statement, has been transmitted to the Council on Environmental Quality and made available to the public as noted herein.

Pursuant to the above mentioned Initial Decision, the Atomic Energy Commission (the Commission) has issued Construction Permits Nos. CPPR-101 and CPPR-102 to the Pennsylvania Power & Light Company for construction of two boiling water nuclear reactors, known as the Susquehanna Steam Electric Station, Units 1 and 2, each designed for a rated power of approximately 3293 megawatts thermal with a net electrical output of approximately 1078 megawatts.

The Commission has made appropriate findings as required by the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the construction permits. The application for the construction permits complies with the standards and requirements of the Act and the Commission's rules and regulations.

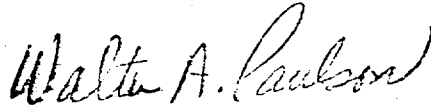
The construction permits are effective as of their date of issuance. The earliest date for the completion of Unit 1 is March 1, 1979 and the latest date for completion is March 1, 1981. The earliest date for the completion of Unit 2 is September 1, 1980 and latest date for completion is September 1, 1982. The permits shall expire on the latest date for completion of that Unit.

In addition to the Initial Decision, copies of (1) Construction Permits CPPR-101 and CPPR-102; (2) the report of the Advisory Committee on Reactor Safeguards, dated April 13, 1972; (3) the Directorate of Licensing's Safety Evaluation dated March 17, 1972; (4) Supplement Number 1 to the Safety Evaluation, dated February 1973; (5) Supplement Number 2 to the Safety Evaluation, dated October 12, 1973; (6) the Preliminary Safety Analysis Report and amendments thereto; (7) the applicant's Environmental Report, Revised, dated July 1972 and supplements thereto; (8) the Draft Environmental Statement dated January 1973; and (9) the Final Environmental Statement dated June 1973, are also available for public inspection at the

above-designated locations in Washington, D. C. and Wilkes-Barre, Pennsylvania. Single copies of the Initial Decision by the Atomic Safety and Licensing Board, the construction permits, the Final Environmental Statement, and the Safety Evaluation may be obtained upon request addressed to the U. S. Atomic Energy Commission, Washington, D. C. 20545, Attention: Deputy Director for Reactor Projects, Directorate of Licensing, Regulation.

Dated at Bethesda, Maryland, this / st day of November 1973.

FOR THE ATOMIC ENERGY COMMISSION



Walter A. Paulson, Acting Chief
Boiling Water Reactors, Branch 1
Directorate of Licensing