

Docket No. 50-412

MAY 3 1974

Distribut  
AEC PDR  
Local PDR  
Docket  
LWR 1-1 Rdg.  
LWR 1-1 File  
Attorney, OGC  
RO (3)  
NDube  
MJinks (w/2 encls.)  
RCDeYoung  
ABraitman  
SKari  
WMiller

DMuller  
RLoose  
JAngelo  
JLee (2)  
BScharf (w/25 Encl. 1)  
ACRS (16)  
LWR 1 Br. Chiefs

Mr. E. J. Woolever  
Vice President  
Duquesne Light Company  
435 Sixth Avenue  
Pittsburgh, Pennsylvania 15219

Dear Mr. Woolever:

Construction Permit No. CPPR-105 is enclosed, together with a copy of a related notice which has been forwarded to the Office of the Federal Register for publication.

The construction permit authorizes The Cleveland Electric Illuminating Company, Duquesne Light Company, Ohio Edison Company, Pennsylvania Power Company, and Toledo Edison Company to construct a pressurized water reactor, designated as Beaver Valley Power Station, Unit No. 2, at the site owned by the said companies on the south bank of the Ohio River in Beaver County, Pennsylvania.

Sincerely,

Original signed by  
D. B. Vassallo

D. B. Vassallo, Chief  
Light Water Reactors Project Branch 1-1  
Directorate of Licensing - Regulation

Enclosures:

- 1. Construction Permit CPPR-105
- 2. Federal Register Notice

cc: See page 2

bcc: J. R. Buchanan, ORNL  
TBAbernathy, DTIE  
ARosenthal, ASLAB  
NHGoodrich, ASLBP

OGC  
Rutberg  
5/1/74

CB

OFFICE	LWR 1-1	LWR 1-1	OGC	LWR 1-1	EP:AD	
SURNAME	JLee	JAngelo	M W B M. Grainer	DBVassallo	DMuller	C/P
DATE	4/30/74	4/30/74	5/2/74	4/30/74	5/1/74	

MAY 3 1974

cc: Gerald Charnoff, Esq.  
Jay E. Silberg, Esq.  
Shaw, Pittman, Potts,  
and Trowbridge  
910 17th Street, N.W.  
Washington, D. C. 20001

Mr. Frank J. Clokey  
Special Assistant Attorney General  
Commonwealth of Pennsylvania  
Room 219, Towne House Apartments  
Harrisburg, Pennsylvania 17105

Mr. Albert D. Brandon  
Utility Counsel  
City of Pittsburgh  
313 City - County Building  
Pittsburgh, Pennsylvania 15219

Mr. J. M. Giglio, Manager  
Plant Licensing  
Westinghouse Electric Corporation  
P. O. Box 355  
Pittsburgh, Pennsylvania 15230

Mr. R. G. Paine  
Stone & Webster Engineering Corp.  
225 Franklin Street  
Boston, Massachusetts 02107

Ohio Edison Company  
47 North Main Street  
Akron, Ohio 44308

Pennsylvania Power Company  
One East Washington Street  
New Castle, Pennsylvania 16103

The Cleveland Electric Illuminating  
Company  
P. O. Box 5000  
Cleveland, Ohio 44101

The Toledo Edison Company  
300 Madison Avenue  
Toledo, Ohio 43652

Mr. Herbert R. Whiting  
Director of Law  
City of Cleveland  
City Hall - Room 213  
Cleveland, Ohio 44114

Reuben Goldberg, Esq.  
1700 Pennsylvania Avenue, N.W.  
Suite 550  
Washington, D. C. 20006

Mr. Thomas M. Gerusky, Director  
Office of Radiological Health  
Department of Environmental Resources  
P. O. Box 2063  
Harrisburg, Pennsylvania 17105  
(w/2 encl.)

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

John W. Cashman, M. D.  
Director of Health  
Ohio Department of Health  
450 East Town Street  
Columbus, Ohio 43216

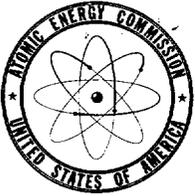
Honorable Arch A. Moore, Jr.  
Governor of West Virginia  
Charleston, West Virginia 25305

N. H. Dyer, M. D.  
State Director of Health  
State Department of Health  
State Office Building No. 1  
1800 Washington Street, East  
Charleston, West Virginia 25305

Mr. Carl Frasure  
Committee of State Officials on  
Suggested State Legislation  
Department of Political Science  
West Virginia University  
Morgantown, West Virginia 26505

Mr. Robert G. McConnell, Commissioner  
Department of the Labor  
643 State Office Building  
Charleston, West Virginia 25305

Mr. John A. Coombs  
Mayor of the Burrough of Shippingport  
Cotter Road  
Shippingport, Pennsylvania 15077



UNITED STATES  
ATOMIC ENERGY COMMISSION  
BOARD OF CONTRACT APPEALS  
WASHINGTON, D.C. 20545

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
DUQUESNE LIGHT COMPANY  
OHIO EDISON COMPANY  
PENNSYLVANIA POWER COMPANY  
THE TOLEDO EDISON COMPANY

DOCKET NO. 50-412  
BEAVER VALLEY POWER STATION, UNIT NO. 2

CONSTRUCTION PERMIT

Construction Permit No. CPPR-105

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 Cleveland Electric Illuminating Company, Duquesne Light Company, Ohio Edison Company, Pennsylvania Power Company and The Toledo Edison Company (the Applicants) have described the proposed design of the Beaver Valley Power Station, Unit No. 2 (the facility), including, but not limited to, the principal architectural and engineering criteria for the design and have 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 Applicants and the Applicants have 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 Applicants are technically qualified to design and construct the proposed facility;
  - G. The Applicants are 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 April 25, 1974, the Atomic Energy Commission hereby issues a construction permit to the Applicants for a utilization facility designed to operate at 2660 megawatts thermal as described in the application and amendments thereto (the application) filed in this matter by the Applicants and as more fully described in the evidence received at the public hearing upon that application. The facility, known as the Beaver Valley Power Station, Unit No. 2, will be located at the Applicants' site on the south bank of the Ohio River in Beaver 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 February 1, 1979, and the latest date for completion is February 1, 1980.
- B. The facility shall be constructed and located at the site as described in the application, in Beaver County, Pennsylvania.
- C. This construction permit authorizes the Applicants to construct the facility described in the application and the hearing record, in accordance with the principal architectural and engineering criteria and environmental protection commitments set forth therein.
- D. The Attorney General of the United States has advised that an antitrust hearing is not required in this matter. The Regulatory Staff does not believe that an antitrust hearing is required in this matter. The City of Cleveland raised antitrust issues in a petition to intervene, and an Atomic Safety and Licensing Board on April 15, 1974 denied the City's petition and determined that a hearing on antitrust issues was not necessary or otherwise required. On April 25, 1974 the City filed a Notice of Intent to Appeal. In view of the advice of the Attorney General, the position of the Regulatory Staff and the decision of the Atomic Safety and Licensing Board, 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.
- E. This facility is subject to the following conditions for the protection of the environment:
  - (1) All work and activities in connection with this project shall be performed pursuant to the provisions of the Federal Water Pollution Control Act of June 25, 1913, as amended, the Federal Water Pollution Control Act of June 22, 1937, as amended, and in accordance with all permits issued for this project by the Pennsylvania Department of Environmental Resources;
  - (2) The Applicants will augment their preoperational radiological monitoring program to obtain more precise background data against which data obtained during plant operation may be compared;
  - (3) The Applicants will employ state-of-the-art technology to reduce iodine releases and the resulting doses to the child thyroid via all pathways to meet an objective of less than 15 millirems/year;

- (4) The Applicants will comply with all Federal and Commonwealth of Pennsylvania regulations governing the use of herbicides for transmission line right-of-way control. The application of the herbicides along transmission line rights-of-way will be confined to areas removed from human habitation. The Applicants will insure that no contamination of water or pasture lands results and will avoid spraying wild edible fruits and berries;
- (5) The Applicants shall implement a monitoring program to determine environmental effects which may occur as a result of site preparation and station construction and operation. If harmful effects or evidence of irreversible damage is detected by the monitoring program, the Applicants will provide to the Regulatory Staff an analysis of the problem and a plan of action to be taken to eliminate or significantly reduce the detrimental effects or damage.
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 Applicants submit 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 Applicants submit proof of financial protection and the execution of an indemnity agreement is 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 -  
Regulation

Date of Issuance: May 3, 1974

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 50-412

DUQUESNE LIGHT COMPANY

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

OHIO EDISON COMPANY

PENNSYLVANIA POWER COMPANY

THE TOLEDO EDISON COMPANY

BEAVER VALLEY POWER STATION, UNIT NO. 2

NOTICE OF ISSUANCE OF CONSTRUCTION PERMIT

Notice is hereby given that, pursuant to the Initial Decision of the Atomic Safety and Licensing Board, dated April 25, 1974, the Atomic Energy Commission (the Commission) has issued Construction Permit No. CPPR-105 to The Cleveland Electric Illuminating Company, Duquesne Light Company, Ohio Edison Company, Pennsylvania Power Company, and The Toledo Edison Company for construction of a pressurized water nuclear reactor at the applicants' site on the south bank of the Ohio River in Beaver County, Pennsylvania. The proposed reactor, known as the Beaver Valley Power Station, Unit No. 2, is designed for a rated power of approximately 2660 megawatts thermal with a net electrical output of approximately 852 megawatts.

The Initial Decision is subject to review by an Atomic Safety and Licensing Appeal Board prior to its becoming final. Any decision or action taken by an Atomic Safety and Licensing Appeal Board in connection with the Initial Decision may be reviewed by the Commission.

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 permit. The application for the construction permit complies with the standards and requirements of the Act and the Commission's rules and regulations.

The construction permit is effective as of its date of issuance. The earliest date for the completion of the facility is February 1, 1979, and the latest date for completion is February 1, 1980. The permit shall expire on the latest date for completion of the facility.

A copy of (1) the Initial Decision, dated April 25, 1974; (2) Construction Permit No. CPPR-105; (3) the report of the Advisory Committee on Reactor Safeguards, dated December 11, 1973; (4) the Directorate of Licensing's Safety Evaluation Report dated November 9, 1973, and Supplements 1 and 2 to the Safety Evaluation Report dated January 29, 1974 and March 20, 1974, respectively; (5) the Preliminary Safety Analysis Report and amendments thereto; (6) the applicants' Environmental Report dated November 6, 1972, and supplements thereto; (7) the Draft Environmental Statement dated March 1973; and (8) the Final Environmental Statement dated July 1973, are available for public inspection at the Commission's Public Document Room at 1717 H Street, N. W., Washington, D. C. and the Beaver Area Memorial Library, 100 College Avenue, Beaver, Pennsylvania. A copy of the construction permit 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 3rd day of May, 1974.

FOR THE ATOMIC ENERGY COMMISSION



D. B. Vassallo, Chief  
Light Water Reactors Project Branch 1-1  
Directorate of Licensing -  
Regulation

→ Docket File

CHECKLIST FOR ISSUANCE OF CONSTRUCTION PERMIT

Applicant DUQUESNE LIGHT COMPANY, ET AL Docket No. 50-412  
Facility BEAVER VALLEY POWER STATION, UNIT NO. 2  
Project Manager John Angelo Licensing Assistant Jean Lee

Date

Initial Decision or Order

April 25, 1974

Safety Review:

- 1. Safety Evaluation
- ACRS Letter

November 9, 1973

December 11, 1973

Environmental Review:

- Final Environmental Statement
- Published in Federal Register

July 1973

July 19, 1973 (38FR 19271)

Notifications Required by Act & Commission Rules\*:

- State Official
- Local Official
- FPC
- State Regulatory Agencies

November 27, 1972

February 16, 1973

November 27, 1972

November 27, 1972

Water Quality Certification: 401 Type

- Submitted by Applicant
- Transmitted to EPA

January 23, 1974

March 28, 1974

Antitrust Review:

- Attorney General's Advice Published in Federal Register
- Hearing and/or Decision

April 30, 1973 (38FR10659)

No hearing

License Fee:

Amount \$ 702,200 Paid

April 26, 1974

Public Announcement (to be released):  
(attach copy if available)

cy attached

Issuance Package: OGC Concurrence

1. Permit
2. Federal Register Notice
3. Letter to Applicant
4. Information Report

May 2, 1974

May 2, 1974

May 2, 1974

May 2, 1974

\*Date initial application forwarded -

Revised

MEMO ROUTE SLIP Form AEC-93 (Rev. May 14, 1947) AECM 0240		See me about this. Note and return.	For concu For signature.	For action. For information.
3 TO (Name and unit) Jean Lee	INITIALS	REMARKS Will you please get branch approval of announcement on Beaver Valley		
	DATE			
TO (Name and unit) <del>1. Angelo</del> 2. Vassallo	INITIALS	REMARKS Unit 2 CP? Thanks Please keep me informed as to insurance.		
	DATE			
TO (Name and unit)	INITIALS	REMARKS		
	DATE			
FROM (Name and unit) Clare Miles	REMARKS			
PHONE NO. 7771	DATE 4/26/74			

USE OTHER SIDE FOR ADDITIONAL REMARKS

GPO : 1971 O - 445-469

AEC ISSUES CONSTRUCTION PERMIT FOR BEAVER VALLEY  
POWER STATION UNIT 2 IN PENNSYLVANIA

A construction permit was issued on \_\_\_\_\_ to Duquesne Light Company and four other utilities by the Atomic Energy Commission's Directorate of Licensing for construction of Unit 2 of the Beaver Valley Power Station in Beaver County, Pennsylvania. The other utilities are Ohio Edison Company, Pennsylvania Power Company, Cleveland Electric Illuminating Company and the Toledo Edison Company.

Unit 2 will be similar to Unit 1 which has been under construction since June 1970. It will use a pressurized water reactor and will have a net electrical output of about 852 megawatts. The 449-acre station site is on the south bank of the Ohio River in Shippingport Borough, about 25 miles from Pittsburgh. The AEC-owned Shippingport station operated by Duquesne Light Company since 1958 is also located at the site.

Issuance of the permit for Unit 2 follows completion of safety and environmental reviews by the AEC Staff, a safety review by the Advisory Committee on Reactor Safeguards and a public hearing conducted by an Atomic Safety and Licensing Board. The Licensing Board's decision of April 25 authorized issuance of the permit.

#

April 4, 1974

Mike Grainey, OGC

Attached for your use in preparing the staff's findings concerning the Beaver Valley Unit 2 rad safety hearings is a copy of the draft proposed construction permit. This is a standard permit with the following exceptions:

1. Antitrust - It is not known at this time whether an antitrust hearing will be held. The petition for a hearing was denied by the Board; however, the petitioner has appealed the Board's decision.
2. Environmental - Standard environmental conditions are included as well as some of the conditions recommended in the Final Environmental Statement. This is in accordance with Mr. Muller's memo to Mr. Gallo, dtd April 1, 1974.

No rad safety conditions are being proposed for this permit.

Also enclosed for your information is a copy of the Federal Register notice to be issued when the permit is granted.

  
Jean Lee  
LWR-1, Licensing

Distribution w/o notice:  
AGiambusso\*  
DBVassallo/JAngelo  
WRegan/RLoose  
Docket Files (w/notice)

\*Please note that the environmental conditions have been changed to some extent since you approved the draft cp on 3/4--this resulted from EP/OGC discussions.

50-412

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

DUQUESNE LIGHT COMPANY

OHIO EDISON COMPANY

PENNSYLVANIA POWER COMPANY

THE TOLEDO EDISON COMPANY

DOCKET NO. 50-412

BEAVER VALLEY POWER STATION, UNIT NO. 2

CONSTRUCTION PERMIT

Construction Permit No. CPPR-\_\_\_\_\_

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 Cleveland Electric Illuminating Company, Duquesne Light Company, Ohio Edison Company, Pennsylvania Power Company and The Toledo Edison Company (the Applicant) have described the proposed design of the Beaver Valley Power Station, Unit No. 2 (the facility), including, but not limited to, the principal architectural and engineering criteria for the design and have

cf

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 Applicants and the Applicants have 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 Applicants are technically qualified to design and construct the proposed facility;

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 50-412

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

DUQUESNE LIGHT COMPANY

OHIO EDISON COMPANY

PENNSYLVANIA POWER COMPANY

THE TOLEDO EDISON COMPANY

BEAVER VALLEY POWER STATION, UNIT NO. 2

NOTICE OF ISSUANCE OF CONSTRUCTION PERMIT

Notice is hereby given that, pursuant to the Initial Decision of the Atomic Safety and Licensing Board, dated \_\_\_\_\_ the Atomic Energy Commission (the Commission) has issued Construction Permit No. CPPR-\_\_\_\_\_ to The Cleveland Electric Illuminating Company, Duquesne Light Company, Ohio Edison Company, Pennsylvania Power Company, and The Toledo Edison Company for construction of a pressurized water nuclear reactor at the applicants' site on the south bank of the Ohio River in Beaver County, Pennsylvania. The proposed reactor, known as the Beaver Valley Power Station, Unit No. 2, is designed for rated power of approximately 2660 megawatts thermal with a net electrical output of approximately 894 megawatts.

The Initial Decision is subject to review by an Atomic Safety and Licensing Appeal Board prior to its becoming final. Any decision or action taken by an Atomic Safety and Licensing Appeal Board in connection with the Initial Decision may be reviewed by the Commission.

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 permit. The application for the construction permit complies with the standards and requirements of the Act and the Commission's rules and regulations.

The construction permit is effective as of its date of issuance. The earliest date for the completion of the facility is February 1, 1979, and the latest date for completion is February 1, 1980. The permit shall expire on the latest date for completion of the facility.

A copy of (1) the Initial Decision, dated \_\_\_\_\_; (2) Construction Permit No. CPPR-\_\_\_\_\_; (3) the report of the Advisory Committee on Reactor Safeguards, dated December 11, 1973; (4) the Directorate of Licensing's Safety Evaluation dated November 9, 1973 and Supplement No. 1 to the Safety Evaluation dated January 29, 1974; (5) the Preliminary Safety Analysis Report and amendments thereto; (6) the applicants' Environmental Report dated November 6, 1972, and supplements thereto; (7) the Draft Environmental Statement dated March 1973; and (8) the Final Environmental Statement dated July 1973, are available for public inspection at the Commission's Public Document Room at 1717 H Street, N. W., Washington, D. C. and the Beaver Area Memorial Library, 100 College Avenue, Beaver, Pennsylvania. A copy of the construction permit 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        day of

FOR THE ATOMIC ENERGY COMMISSION

D. B. Vassallo, Chief  
Light Water Reactors Project Branch 1-1  
Directorate of Licensing  
Regulation