

DISTRIBUTION FOR BEAVER VALLEY POWER STATION, UNIT NO. 1 AMENDMENT NO. 3
TO FACILITY OPERATING LICENSE NO. DPR-66

Docket File

NRC PDR

Local PDR

LWR #5 File

OELD

RCDeYoung

DVassallo

JAngelo

JLee

FJWilliams

BScott (w/o Tech Specs)

IE (3)

NDube (w/o Tech Specs)

JSaltzman (w/o Tech Specs)

MJinks (w/2 encls)

WMiller (w/o Tech Specs)

ACRS (16)

HDenton

VMoore

RVollmer

MErnst

WGammill

RHeineman

RMaccary

DRoss

RTedesco

AToalston

BScharf (15 copies)

DSkovholt

EHughes

SBajwa

MDuncan

HBristow

VStello

KGoller

JMcGough

DEisenhut

H. Smith

P. D. Benedetto

E. Hylton

J. Stolz

50-334

bcc: JRBuchanan, NSIC
TBAbernathy, TIC
NHGoodrich, ASLBP
ARosenthal, ASLAB

JUL 02 1976

Docket No. 50-334

Mr. C. N. Dunn
Vice President, Operations Division
Duquesne Light Company
435 Sixth Avenue
Pittsburgh, Pennsylvania 15219

Dear Mr. Dunn:

The Nuclear Regulatory Commission has issued Amendment No. 4 to Facility Operating License No. DPR-66 to Duquesne Light Company, Ohio Edison Company, and Pennsylvania Power Company. The amendment is issued pursuant to the Atomic Safety and Licensing Board's Decision dated **July 1, 1976**, a copy of which has already been sent to you. The amendment authorizes full power operation of the Beaver Valley Power Station, Unit No. 1 at a steady state reactor core full power level of 2652 megawatts thermal, in accordance with the provisions of the amended license and the Technical Specifications, as revised. Duquesne Light Company maintains sole responsibility for operation of the facility.

A copy of Amendment No. 4 to DPR-66 and a related notice, which has been forwarded to the Office of the Federal Register for publication, are enclosed for your information.

Sincerely,

Original signed by R. C. DeYoung

R. C. DeYoung, Assistant Director
for Light Water Reactors
Division of Project Management

Enclosures:

1. Amendment No. 4 to DPR-66
2. Federal Register Notice

cc: see page 2

OFFICE	LWR 1	LWR 1	ELD 6 RAINBOW	LWR 1	LWR	
SURNAME	Edwinton/red	J. Angelo	W. L. S.	J. Stolz	R. C. DeYoung	
DATE	6/25/76	6/25/76	6/25/76	6/28/76	6/29/76	

cc: Gerald Charnoff, Esq.

Jay E. Silberg, Esq.
Shaw, Pittman, Potts and
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910 17th Street, N. W.
Washington, D. C. 20006

Karin Carter, Esq.
Special Assistant Attorney General
Bureau of Administrative Enforcement
5th Floor, Executive House
Harrisburg, Pennsylvania 17120

Joseph A. Fricker, Jr.
Utility Counsel
City of Pittsburgh
313 City-County Building
Pittsburgh, Pennsylvania 15219

Mr. R. Stokes
Westinghouse Electric Corporation
P. O. Box 355
Pittsburgh, Pennsylvania 15230

Mr. D. Mangan
Stone & Webster Engineering Corporation
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

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 enclosures)

Mr. Thomas M. Gerusky, Director
Office of Radiological Health
Department of Environmental Resources
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Harrisburg, Pennsylvania 17105
(w/2 enclosures)

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

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. Joseph H. Mills
Acting Commissioner
State of West Virginia Department
of Labor
1900 Washington Street
East Charleston, West Virginia 25305

Honorable Thomas J. Czerpah
Mayor of the Burrough of Shippingport
Cotter Road
Shippingport, Pennsylvania 15077

Chief, TIRB
Technology Assessment Division
Office of Radiation Programs
U.S. Environmental Protection Agency
Room 647A East Tower
Waterside Mall
401 M Street, S. W.
Washington, D. C. 20460
(w/2 enclosures)

Mr. Robert Blanco
U.S. Environmental Protection Agency
Curtis Building
6th and Walnut Streets
Philadelphia, Pennsylvania 19106

Mr. C. N. Dunn

- 3 -

Mr. Bruce Blanchard
Environmental Projects Review
U.S. Department of the Interior
Room 5321
18th and C Streets, N. W.
Washington, D. C. 20240

Mr. Sheldon Myers
ATTN: Jack Anderson
Office of Federal Activities
U.S. Environmental Protection Agency
Room W-541, Waterside Mall
401 M Street, S. W.
Washington, D. C. 20460

Colonel Howard Sargent
Executive Director of Civil Works
Office of the Chief of Engineers
Corps of Engineers
U.S. Department of the Army
Forrestal Building, Room 4-G060
Washington, D. C. 20314

DUQUESNE LIGHT COMPANY
OHIO EDISON COMPANY
PENNSYLVANIA POWER COMPANY

DOCKET NO. 50-334

BEAVER VALLEY POWER STATION UNIT NO. 1

FACILITY OPERATING LICENSE

Amendment No. 4
License No. DPR-66

- I. The Nuclear Regulatory Commission (the Commission) having found that:
 - A. The application for license filed by Duquesne Light Company, Ohio Edison Company, and Pennsylvania Power Company (the licensees) complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I and all required notifications to other agencies or bodies have been duly made;
 - B. Construction of the Beaver Valley Power Station, Unit No. 1 (facility), has been substantially completed in conformity with Construction Permit No. CPPR-75 and the application, as amended, the provisions of the Act and the rules and regulations of the Commission;
 - C. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission;
 - D. There is reasonable assurance: (i) that the activities authorized by this amended operating license can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the rules and regulations of the Commission;
 - E. Duquesne Light Company is technically qualified and the licensees are financially qualified to engage in the activities authorized by this amended operating license in accordance with the rules and regulations of the Commission;
 - F. The licensees have satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements," of the Commission's regulations;

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G. The issuance of this amended operating license will not be inimical to the common defense and security or to the health and safety of the public;

H. After weighing the environmental, economic, technical, and other benefits of the facility against environmental and other costs and considering available alternatives, the issuance of Amendment No. 4 to Facility Operating License No. DPR-66 is in accordance with 10 CFR Part 51 (formerly Appendix D of 10 CFR Part 50) of the Commission's regulations and all applicable requirements have been satisfied; and

I. The receipt, possession, and use of source, byproduct, and special nuclear material as authorized by this amended license will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40, and 70, including 10 CFR Sections 30.33, 40.32, 70.23, and 70.31.

2. Facility Operating License No. DPR-66 issued to Duquesne Light Company, Ohio Edison Company, and Pennsylvania Power Company is hereby amended in its entirety to read as follows:

A. This amended license applies to the Beaver Valley Power Station, Unit No. 1, a pressurized water nuclear reactor and associated equipment (the facility), owned by the licensees and operated by Duquesne Light Company. The facility is located in Beaver County, Pennsylvania, on the southern shore of the Ohio River, and is described in the "Final Safety Analysis Report" as supplemented and amended (Amendments 1 through 21) and the Environmental Report as amended (Supplements 1 through 6).

B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses:

(1) Duquesne Light Company, pursuant to Section 104b of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities," to possess, use, and operate the facility and Duquesne Light Company, Ohio Edison Company, and Pennsylvania Power Company to possess the facility at the designated location in Beaver County, Pennsylvania in accordance with the procedures and limitations set forth in this amended license;

(2) Duquesne Light Company, pursuant to the Act and 10 CFR Part 70, to receive, possess, and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Final Safety Analysis Report, as supplemented and amended;

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- (3) Duquesne Light Company, pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use at any time any byproduct, source and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;
 - (4) Duquesne Light Company, pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use in amounts as required any byproduct, source, or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components;
 - (5) Duquesne Light Company, pursuant to the Act and 10 CFR Parts 30, and 70, to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility.
- C. This amended license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations in 10 CFR Chapter I: Part 20, Section 30.34 of Part 30, Section 40.41 of Part 40, Sections 50.54 and 50.59 of Part 50, and Section 70.32 of Part 70; and is subject to all applicable provisions of the Act and to the rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:

(1) Maximum Power Level

Duquesne Light Company is authorized to operate the facility at a steady state reactor core power level of 2652 megawatts thermal.

(2) Technical Specifications

The Technical Specifications, Appendix A, as revised, are hereby incorporated in this amended license. The Technical Specifications, Appendix B, issued on January 30, 1976, are hereby incorporated in this amended license. Duquesne Light Company shall operate the facility in accordance with the Technical Specifications.

(3) Auxiliary River Water System

The licensees shall complete the installation of the auxiliary river water system for operation prior to December 31, 1976, or the facility shall not be operated beyond this date. In the interim period to December 31, 1976, Duquesne Light Company shall maintain an alternate cooling system in a state of readiness and shall test the alternate cooling system each calendar quarter for

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operability. The alternate cooling system is comprised of two diesel-driven pumps, one gasoline engine-driven pump, and 1000 feet of fire hose. The starter batteries for the pump engines shall be tested monthly. The procedures for installing and testing the alternate cooling system shall be incorporated into the plant emergency procedures.

(4) Main Control Room Ventilation System

The licensees shall, prior to the commencement of the second fuel cycle of operation, modify the control room ventilation system to provide for automatic isolation of the system on detection of chlorine, or the facility shall not be operated beyond the first fuel cycle of operation without prior written authorization from the Commission.

(5) Emergency Core Cooling System

The licensees shall, prior to the commencement of the second fuel cycle of operation, modify the emergency core cooling system to provide for either partial or total automation of the functions to accomplish the transfer of the system from the injection mode of operation to the recirculation mode of operation in a manner satisfactory to the Commission, or the facility shall not be operated beyond the first fuel cycle of operation without prior written authorization from the Commission. The licensees shall submit information describing this modification prior to October 30, 1976.

(6) Less Than Three Loop Operation

Duquesne Light Company shall not operate the reactor at power levels above P-7 (as defined in Table 3.3-1 of Specification 3.3.1.1 of the Technical Specifications, Appendix A) with less than three (3) reactor coolant loops in operation until safety analyses for less than three loop operation have been submitted by the licensees and approval for less than three loop operation at power levels above P-7 has been granted by the Commission by amendment of this license.

(7) Steam Generator Water Rise Rate

Except for the purpose of performing secondary side flow stability tests, Duquesne Light Company shall, whenever the secondary side water level in a steam generator is below the level of the feed-water sparger, limit the secondary side water level rise rate in each steam generator to less than 1.2 inches per minute and shall reduce the rise rate to within this limit within two (2) minutes.

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For the purpose of conducting this test, the limiting condition for operation specified in Specification 3.7.1.2 of the Technical Specifications, Appendix A, shall be modified to allow power lockout of the auxiliary feedwater pumps. This condition shall be removed by amendment of this license when Duquesne Light Company demonstrates to the satisfaction of the Commission that secondary side flow instability (water hammer) does not result in unacceptable consequences.

(8) Rod Bow Penalty on Departure from Nucleate Boiling

The licensees shall, prior to the end of the first fuel cycle of operation, resolve to the satisfaction of the Commission that the effects of rod bowing on the departure from nucleate boiling beyond the first fuel cycle of operation have been adequately accounted for in the design of the reactor core, or the limiting conditions on nuclear enthalpy hot channel factor, specified in Specification 3.2.3 of the Technical Specifications, Appendix A, shall be reduced by one percent during the second fuel cycle of operation and two percent during the third fuel cycle of operation.

(9) Rod Bow Penalty on Total Peaking Factor

The licensees shall, prior to the end of the second fuel cycle of operation, resolve to the satisfaction of the Commission that third cycle fuel will not contain peak power density locations, or the heat flux hot channel factor specified in Specification 3.2.2 and the axial power distribution monitoring relationship specified in Specification 3.2.6 of the Technical Specifications, Appendix A, shall be reduced by the percentage amount which the rod bowing power augmentation factor, calculated for the burnup to the end of the third fuel cycle of operation, exceeds the value of 5.7 percent.

D. The licensees shall maintain in effect and fully implement all provisions of the physical security plan, including amendments and changes made pursuant to the authority of Section 50.54(p) of 10 CFR Part 50. The security plan consists of proprietary documents, collectively titled, "Beaver Valley Power Station, Unit No. 1 Industrial Security Plan", as follows:

Revision No. 5, submitted with letter dated April 16, 1975

Revision No. 6, submitted with letter dated May 20, 1975

Revision No. 7, submitted with letter dated March 1, 1976

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- E. All work and activities in connection with this project shall be performed pursuant to the provisions of the Commonwealth of Pennsylvania Clean Streams Acts of June 24, 1913, as amended, and of June 22, 1937, as amended, and in accordance with all permits issued by the Department of Environmental Resources of the Commonwealth of Pennsylvania.
- F. This amended license is effective as of the date of issuance and shall expire at midnight on June 25, 2010.

FOR THE NUCLEAR REGULATORY COMMISSION

ORIGINAL SIGNED BY
R. S. BOYD

Roger S. Boyd, Director
Division of Project Management
Office of Nuclear Reactor Regulation

Date of Issuance: JUL 02 1976

OFFICE	LWR 1	LWR 1	LWR 1	OELD M/L	LWR	DPM
SURNAME	Emilton/red	Angelo	JStoltz	CRANBY	RCDeYoung	RSBoyd
DATE	6/13/76	6/25/76	6/28/76	7/2/76	6/30/76	8/2/76

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-334

DUQUESNE LIGHT COMPANY, ET AL

NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY OPERATING LICENSE

Notice is hereby given that, pursuant to an Initial Decision by the Atomic Safety and Licensing Board dated JUL 01 1976, the U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 4 to Facility Operating License No. DPR-66, issued to Duquesne Light Company, Ohio Edison Company, and Pennsylvania Power Company for the Beaver Valley Power Station, Unit No. 1, located in Beaver County, Pennsylvania. The amendment authorizes full power operation of the facility at a steady state reactor core full power level of 2652 megawatts thermal, in accordance with the provisions of the amended license and the Technical Specifications, as revised. Previously, the facility had been restricted to thirty-five percent of the steady state reactor core power level for the purpose of start-up testing, including synchronization of the turbine-generator, and "hot" licensing training of the reactor operators. The amendment is effective on the date of issuance.

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.

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The application, including its amendments, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter 1, which are set forth in the license amendment.

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR Section 51.5(d)(4) an environmental statement, negative declaration or environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

For further details with respect to this action, see (1) the Initial Decision dated ~~JUL 01~~ 1976, and (2) Amendment No. 4 to License No. DPR-66. These items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D. C. and at the Beaver Valley Memorial Library, 100 College Avenue, Beaver, Pennsylvania.

A copy of item (2) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Project Management.

Dated at Bethesda, Maryland, this 2nd day of July 1976.

FOR THE NUCLEAR REGULATORY COMMISSION

ORIGINAL SIGNED BY

John F. Stolz, Chief
Light Water Reactors Branch No. 1
Division of Project Management

ORIGINAL SIGNED BY

OFFICE ➤	LWR 1	LWR 1	OELD MLB	LWR 1		
SURNAME ➤	Emilston/red	Angelo	GRAINY	JStolz		
DATE ➤	6/15/76	6/25/76	7/2/76	6/15/76		



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

DUQUESNE LIGHT COMPANY
OHIO EDISON COMPANY
PENNSYLVANIA POWER COMPANY

DOCKET NO. 50-334

BEAVER VALLEY POWER STATION UNIT NO. 1

FACILITY OPERATING LICENSE

Amendment No. 4
License No. DPR-66

- I. The Nuclear Regulatory Commission (the Commission) having found that:
 - A. The application for license filed by Duquesne Light Company, Ohio Edison Company, and Pennsylvania Power Company (the licensees) complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I and all required notifications to other agencies or bodies have been duly made;
 - B. Construction of the Beaver Valley Power Station, Unit No. 1 (facility), has been substantially completed in conformity with Construction Permit No. CPPR-75 and the application, as amended, the provisions of the Act and the rules and regulations of the Commission;
 - C. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission;
 - D. There is reasonable assurance: (i) that the activities authorized by this amended operating license can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the rules and regulations of the Commission;
 - E. Duquesne Light Company is technically qualified and the licensees are financially qualified to engage in the activities authorized by this amended operating license in accordance with the rules and regulations of the Commission;
 - F. The licensees have satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements," of the Commission's regulations;

- G. The issuance of this amended operating license will not be inimical to the common defense and security or to the health and safety of the public;
 - H. After weighing the environmental, economic, technical, and other benefits of the facility against environmental and other costs and considering available alternatives, the issuance of Amendment No. 4 to Facility Operating License No. DPR-66 is in accordance with 10 CFR Part 51 (formerly Appendix D of 10 CFR Part 50) of the Commission's regulations and all applicable requirements have been satisfied; and
 - I. The receipt, possession, and use of source, byproduct, and special nuclear material as authorized by this amended license will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40, and 70, including 10 CFR Sections 30.33, 40.32, 70.23, and 70.31.
2. Facility Operating License No. DPR-66 issued to Duquesne Light Company, Ohio Edison Company, and Pennsylvania Power Company is hereby amended in its entirety to read as follows:
- A. This amended license applies to the Beaver Valley Power Station, Unit No. 1, a pressurized water nuclear reactor and associated equipment (the facility), owned by the licensees and operated by Duquesne Light Company. The facility is located in Beaver County, Pennsylvania, on the southern shore of the Ohio River, and is described in the "Final Safety Analysis Report" as supplemented and amended (Amendments 1 through 21) and the Environmental Report as amended (Supplements 1 through 6).
 - B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses:
 - (1) Duquesne Light Company, pursuant to Section 104b of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities," to possess, use, and operate the facility and Duquesne Light Company, Ohio Edison Company, and Pennsylvania Power Company to possess the facility at the designated location in Beaver County, Pennsylvania in accordance with the procedures and limitations set forth in this amended license;
 - (2) Duquesne Light Company, pursuant to the Act and 10 CFR Part 70, to receive, possess, and use at any time special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Final Safety Analysis Report, as supplemented and amended;

- (3) Duquesne Light Company, pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use at any time any byproduct, source and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;
 - (4) Duquesne Light Company, pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use in amounts as required any byproduct, source, or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components;
 - (5) Duquesne Light Company, pursuant to the Act and 10 CFR Parts 30, and 70, to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility.
- C. This amended license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations in 10 CFR Chapter I: Part 20, Section 30.34 of Part 30, Section 40.41 of Part 40, Sections 50.54 and 50.59 of Part 50, and Section 70.32 of Part 70; and is subject to all applicable provisions of the Act and to the rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:
- (1) Maximum Power Level
Duquesne Light Company is authorized to operate the facility at a steady state reactor core power level of 2652 megawatts thermal.
 - (2) Technical Specifications
The Technical Specifications, Appendix A, as revised, are hereby incorporated in this amended license. The Technical Specifications, Appendix B, issued on January 30, 1976, are hereby incorporated in this amended license. Duquesne Light Company shall operate the facility in accordance with the Technical Specifications.
 - (3) Auxiliary River Water System
The licensees shall complete the installation of the auxiliary river water system for operation prior to December 31, 1976, or the facility shall not be operated beyond this date. In the interim period to December 31, 1976, Duquesne Light Company shall maintain an alternate cooling system in a state of readiness and shall test the alternate cooling system each calendar quarter for

operability. The alternate cooling system is comprised of two diesel-driven pumps, one gasoline engine-driven pump, and 1000 feet of fire hose. The starter batteries for the pump engines shall be tested monthly. The procedures for installing and testing the alternate cooling system shall be incorporated into the plant emergency procedures.

(4) Main Control Room Ventilation System

The licensees shall, prior to the commencement of the second fuel cycle of operation, modify the control room ventilation system to provide for automatic isolation of the system on detection of chlorine, or the facility shall not be operated beyond the first fuel cycle of operation without prior written authorization from the Commission.

(5) Emergency Core Cooling System

The licensees shall, prior to the commencement of the second fuel cycle of operation, modify the emergency core cooling system to provide for either partial or total automation of the functions to accomplish the transfer of the system from the injection mode of operation to the recirculation mode of operation in a manner satisfactory to the Commission, or the facility shall not be operated beyond the first fuel cycle of operation without prior written authorization from the Commission. The licensees shall submit information describing this modification prior to October 30, 1976.

(6) Less Than Three Loop Operation

Duquesne Light Company shall not operate the reactor at power levels above P-7 (as defined in Table 3.3-1 of Specification 3.3.1.1 of the Technical Specifications, Appendix A) with less than three (3) reactor coolant loops in operation until safety analyses for less than three loop operation have been submitted by the licensees and approval for less than three loop operation at power levels above P-7 has been granted by the Commission by amendment of this license.

(7) Steam Generator Water Rise Rate

Except for the purpose of performing secondary side flow stability tests, Duquesne Light Company shall, whenever the secondary side water level in a steam generator is below the level of the feed-water sparger, limit the secondary side water level rise rate in each steam generator to less than 1.2 inches per minute and shall reduce the rise rate to within this limit within two (2) minutes.

For the purpose of conducting this test, the limiting condition for operation specified in Specification 3.7.1.2 of the Technical Specifications, Appendix A, shall be modified to allow power lockout of the auxiliary feedwater pumps. This condition shall be removed by amendment of this license when Duquesne Light Company demonstrates to the satisfaction of the Commission that secondary side flow instability (water hammer) does not result in unacceptable consequences.

(8) Rod Bow Penalty on Departure from Nucleate Boiling

The licensees shall, prior to the end of the first fuel cycle of operation, resolve to the satisfaction of the Commission that the effects of rod bowing on the departure from nucleate boiling beyond the first fuel cycle of operation have been adequately accounted for in the design of the reactor core, or the limiting conditions on nuclear enthalpy hot channel factor, specified in Specification 3.2.3 of the Technical Specifications, Appendix A, shall be reduced by one percent during the second fuel cycle of operation and two percent during the third fuel cycle of operation.

(9) Rod Bow Penalty on Total Peaking Factor

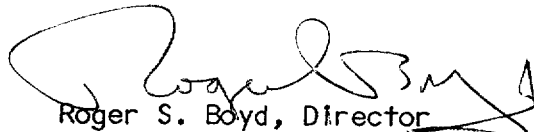
The licensees shall, prior to the end of the second fuel cycle of operation, resolve to the satisfaction of the Commission that third cycle fuel will not contain peak power density locations, or the heat flux hot channel factor specified in Specification 3.2.2 and the axial power distribution monitoring relationship specified in Specification 3.2.6 of the Technical Specifications, Appendix A, shall be reduced by the percentage amount which the rod bowing power augmentation factor, calculated for the burnup to the end of the third fuel cycle of operation, exceeds the value of 5.7 percent.

- D. The licensees shall maintain in effect and fully implement all provisions of the physical security plan, including amendments and changes made pursuant to the authority of Section 50.54(p) of 10 CFR Part 50. The security plan consists of proprietary documents, collectively titled, "Beaver Valley Power Station, Unit No. 1 Industrial Security Plan", as follows:

Revision No. 5, submitted with letter dated April 16, 1975
 Revision No. 6, submitted with letter dated May 20, 1975
 Revision No. 7, submitted with letter dated March 1, 1976

- E. All work and activities in connection with this project shall be performed pursuant to the provisions of the Commonwealth of Pennsylvania Clean Streams Acts of June 24, 1913, as amended, and of June 22, 1937, as amended, and in accordance with all permits issued by the Department of Environmental Resources of the Commonwealth of Pennsylvania.
- F. This amended license is effective as of the date of issuance and shall expire at midnight on June 25, 2010.

FOR THE NUCLEAR REGULATORY COMMISSION



Roger S. Boyd, Director
Division of Project Management
Office of Nuclear Reactor Regulation

Date of Issuance: JUL 02 1976

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-334

DUQUESNE LIGHT COMPANY, ET AL

NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY OPERATING LICENSE

Notice is hereby given that, pursuant to an Initial Decision by the Atomic Safety and Licensing Board dated July 1, 1976, the U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 4 to Facility Operating License No. DPR-66, issued to Duquesne Light Company, Ohio Edison Company, and Pennsylvania Power Company for the Beaver Valley Power Station, Unit No. 1, located in Beaver County, Pennsylvania. The amendment authorizes full power operation of the facility at a steady state reactor core full power level of 2652 megawatts thermal, in accordance with the provisions of the amended license and the Technical Specifications, as revised. Previously, the facility had been restricted to thirty-five percent of the steady state reactor core power level for the purpose of start-up testing, including synchronization of the turbine-generator, and "hot" licensing training of the reactor operators. The amendment is effective on the date of issuance.

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 application, including its amendments, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter 1, which are set forth in the license amendment.

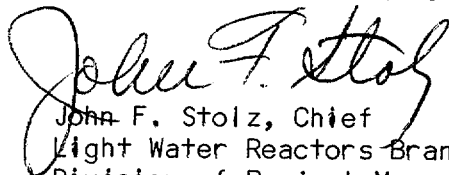
The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR Section 51.5(d)(4) an environmental statement, negative declaration or environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

For further details with respect to this action, see (1) the Initial Decision dated July 1, 1976, and (2) Amendment No. 4 to License No. DPR-66. These items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D. C. and at the Beaver Valley Memorial Library, 100 College Avenue, Beaver, Pennsylvania.

A copy of item (2) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Project Management.

Dated at Bethesda, Maryland, this 2nd day of July 1976 .

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in dark ink, appearing to read "John F. Stolz". The signature is fluid and cursive, with the first name "John" and last name "Stolz" clearly legible.

John F. Stolz, Chief
Light Water Reactors Branch No. 1
Division of Project Management