

July 13, 1988

Docket No. 50-334

Mr. J. D. Sieber, Vice President
Nuclear Group
Duquesne Light Company
Post Office Box 4
Shippingport, Pennsylvania 15077

Dear Mr. Sieber:

SUBJECT: ISSUANCE OF AMENDMENT (TAC NO. 66795)

The Commission has issued the enclosed Amendment No. 128 to Facility Operating License No. DPR-66 for the Beaver Valley Power Station, Unit No. 1, in response to your application dated December 7, 1987.

The amendment changes Technical Specifications 4.2.1.4 to require determination of the target flux difference by interpolating to the design end-of-cycle value, instead of interpolating to 0% at the end-of-life.

A copy of the related Safety Evaluation and Notice of Issuance are also enclosed.

Sincerely,

Original signed by

Peter S. Tam, Project Manager
Project Directorate I-4
Division of Reactor Projects I/II
Office of Nuclear Reactor Regulation

Enclosures:

- 1. Amendment No. 128 to DPR-66
- 2. Safety Evaluation
- 3. Notice

cc w/enclosures:
See next page

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Mr. J. Seiber
Duquesne Light Company

Beaver Valley Power Station
Units 1 & 4

cc:

Jay E. Silberg, Esquire
Shaw, Pittman, Potts and Trowbridge
2300 N Street, N.W.
Washington, DC 20037

Bureau of Radiation Protection
Pennsylvania Department of Environmental
Resources
ATTN: R. Janati
Post Office Box 2063
Harrisburg, Pennsylvania 17120

Kenny Grada, Manager
Nuclear Safety
Duquesne Light Company
P. O. Box 4
Shippingport, Pennsylvania 15077

Mayor of the Borough of
Shippingport
Post Office Box 3
Shippingport, Pennsylvania 15077

William Lacey, Manager
Nuclear Operations Department
Post Office Box 4
Duquesne Light Company
Shippingport, Pennsylvania 15077

Ashley C. Schannauer
Assistant City Solicitor
City of Pittsburgh
313 City-County Building
Pittsburgh, Pennsylvania 15219

John A. Lee, Esquire
Duquesne Light Company
One Oxford Centre
301 Grant Street
Pittsburgh, Pennsylvania 15279

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, Pennsylvania 19406

W.F. Carmichael, Commissioner
Department of Labor
1800 Washington Street East
Charleston, West Virginia 25305

Resident Inspector
U.S. Nuclear Regulatory Commission
Post Office Box 181
Shippingport, Pennsylvania 15077

John D. Borrows
Director, Utilities Department
Public Utilities Commission
180 East Broad Street
Columbus, Ohio 43266-0573

Director, Pennsylvania Emergency
Management Agency
Post Office Box 3321
Harrisburg, Pennsylvania 17105-3321



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

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 128
License No. DPR-66

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Duquesne Light Company, et al. (the licensee) dated December 7, 1987, 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;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

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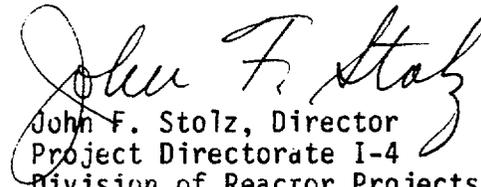
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-66 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 128, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective on issuance, to be implemented within 30 days of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



John F. Stolz, Director
Project Directorate I-4
Division of Reactor Projects I/II
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: July 13, 1988

ATTACHMENT TO LICENSE AMENDMENT NO.128

FACILITY OPERATING LICENSE NO. DPR-66

DOCKET NO. 50-334

Replace the following page of Appendix A (Technical Specifications) with the enclosed page as indicated. The revised page is identified by amendment number and contains vertical lines indicating the areas of change.

Remove

3/4 2-3

Insert

3/4 2-3

POWER DISTRIBUTION LIMITS

SURVEILLANCE REQUIREMENTS (Continued)

4.2.1.3 The target flux difference of each OPERABLE excore channel shall be determined by measurement at least once per 92 Effective Full Power Days. The provisions of Specification 4.0.4 are not applicable.

4.2.1.4 The target flux difference shall be updated at least once per 31 Effective Full Power Days by either determining the target flux difference pursuant to 4.2.1.3 above or by linear interpolation between the most recently measured value and the design end-of-cycle value. The provisions of Specification 4.0.4 are not applicable.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 128 TO FACILITY OPERATING LICENSE NO. DPR-66

DUQUESNE LIGHT COMPANY

OHIO EDISON COMPANY

PENNSYLVANIA POWER COMPANY

BEAVER VALLEY POWER STATION, UNIT NO. 1

DOCKET NO. 50-334

1.0 INTRODUCTION

By letter dated December 7, 1987, Duquesne Light Company (the licensee, acting as agent for the utilities named above), requested a change to Technical Specification 4.2.1.4 for Beaver Valley Power Station, Unit No. 1. The change would require determination of the target flux difference by interpolating to the design end-of-cycle value.

2.0 DISCUSSION AND EVALUATION

The current surveillance requirement 4.2.1.4 requires update of the target flux difference at least once per 31 days by either measurement in accordance with 4.2.1.3 or by linear interpolation between the most recently measured value and 0% at the end of cycle life. Surveillance requirement 4.2.1.3 requires a target flux difference measurement at least once per 92 days. The measurement method requires full-power equilibrium xenon, the all-rods-out condition and little or no rod movement for at least 48 hours prior to the measurement.

Since the equilibrium conditions are difficult to maintain for the 48-hour period, the target flux difference update (specification 4.2.1.4) is usually obtained by interpolating from the latest measurement. The target flux difference obtained by interpolating to the design end-of-cycle value will more closely reflect actual core conditions, and will aid the operator in maintaining reactor operation within the $\pm 7\%$ target band.

In order to show the effect, the licensee provided data from Cycles 4 and 5, comparing the target flux differences obtained by the current specification, with those obtained using the proposed specification. For Cycle 4, 10 points were compared. The average of the absolute difference between the measured value and interpolated value was 1.11% for the present specification versus 0.46% for the proposed specification. For Cycle 5, 16 points were compared. The average of the absolute differences were 0.72% versus 0.4%, using the present and the proposed specifications, respectively. The proposed specification provides a closer fit with measured data.

Based on our review of the licensee's analysis, we conclude that the requested change to the Technical Specifications is acceptable.

ENVIRONMENTAL CONSIDERATION

Pursuant to 10 CFR 50.21, 51.32, and 51.35, an environmental assessment and finding of no significant impact have been prepared and published in the Federal Register on July 13, 1988 (53 FR 26516). Accordingly, based upon the environmental assessment, the Commission has determined that the issuance of this amendment will not have a significant effect on the quality of the human environment.

CONCLUSION

We have concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Dated: July 13, 1988

Principal Contributor:

Margaret Chatterton

UNITED STATES NUCLEAR REGULATORY COMMISSIONDUQUESNE LIGHT COMPANYOHIO EDISON COMPANYPENNSYLVANIA POWER COMPANYDOCKET NO. 50-334NOTICE OF ISSUANCE OF AMENDMENT TOFACILITY OPERATING LICENSE

The U.S. Nuclear Regulatory Commission (Commission) has issued Amendment No. 128 to Facility Operating License No. DPR-66, issued to Duquesne Light Company, et al. (the licensee), which revised the Technical Specifications for operation of the Beaver Valley Power Station, Unit No. 1, located in Shippingport, Pennsylvania. The amendment is effective as of the date of issuance, to be implemented within 30 days of issuance.

The amendment changes Technical Specification 4.2.1.4 to require determination of the target flux difference by interpolating to the design end-of-cycle value, instead of interpolating to 0% at the end-of-life.

The application for the amendment 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 I, which are set forth in the license amendment.

Notice of Consideration of Issuance of Amendment and Opportunity for Prior Hearing in connection with this action was published in the FEDERAL REGISTER on February 2, 1988 (53 FR 2896). No request for a hearing or petition for leave to intervene was filed following this notice.

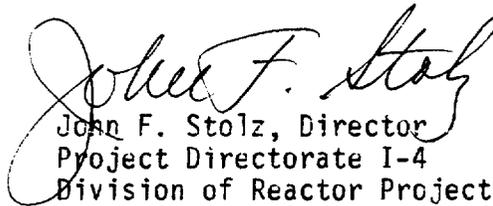
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The Commission has prepared an Environmental Assessment related to the action and has determined not to prepare an environmental impact statement. Based upon the environmental assessment, the Commission has concluded that the issuance of this amendment will not have a significant effect on the quality of the human environment.

For further details with respect to the action see (1) the application for amendment dated December 7, 1987, (2) Amendment No. to License No. DPR-66, and (3) the Commission's related Safety Evaluation and Environmental Assessment. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street NW, and at the B. J. Jones Memorial Library, 663 Franklin Avenue, Aliquippa, Pennsylvania 15001. A copy of items (2) and (3) may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Reactor Projects I/II.

Dated at Rockville, Maryland this 13th day of July 1988.

FOR THE NUCLEAR REGULATORY COMMISSION



John F. Stolz, Director
Project Directorate I-4
Division of Reactor Projects I/II
Office of Nuclear Reactor Regulation

UNITED STATES NUCLEAR REGULATORY COMMISSIONDUQUESNE LIGHT COMPANYOHIO EDISON COMPANYPENNSYLVANIA POWER COMPANYDOCKET NO. 50-334NOTICE OF ISSUANCE OF AMENDMENT TOFACILITY OPERATING LICENSE

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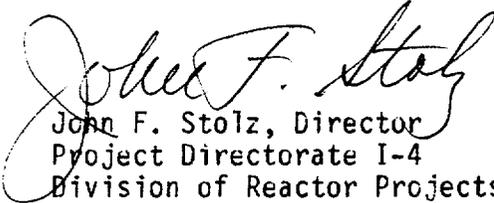
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Dated at Rockville, Maryland this 13th day of July 1988.

FOR THE NUCLEAR REGULATORY COMMISSION


John F. Stolz, Director
Project Directorate I-4
Division of Reactor Projects I/II
Office of Nuclear Reactor Regulation