

December 30, 1986

Docket No. 50-334

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

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Dear Mr. Sieber:

Subject: Issuance of Amendment (Licensing Action TAC 60212)

The Commission has issued the enclosed Amendment No. 106 to Facility Operating License No. DPR-66 for the Beaver Valley Power Station, Unit No. 1. The amendment consists of changes to the license in response to your application dated November 7, 1985.

The amendment changes the license for Beaver Valley, Unit No. 1, by extending its expiration date from June 25, 2010 to January 29, 2016.

A copy of the related Safety Evaluation is enclosed. The Notice of Issuance will be included in the Commission's next regular bi-weekly Federal Register notice.

Sincerely,

/s/

Peter S. Tam, Project Manager
PWR Project Directorate #2
Division of PWR Licensing-A
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 106 to DPR-66
2. Safety Evaluation

cc w/enclosures:

See next page

<p><i>BS</i></p> <p>LA: PAD#2 DM: Miller 11/24/86</p>	<p>PE: PAD#2 JG: Gillen 11/24/86</p>	<p>PM: PAD#2 PTam: at 11/24/86</p>	<p><i>LJR</i></p> <p>D: PAD#2 LRubenstein 12/29/86</p>	<p>OGC <i>[Signature]</i> 12/17/86</p>	<p>D: PWR-A <i>ms</i> TPovak 12/17/86</p>
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Mr. J. D. Sieber
Duquesne Light Company

Beaver Valley 1 Power Station

cc:

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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

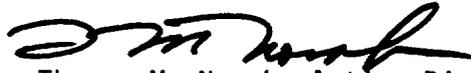
Amendment No. 106
License No. DPR-66

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Duquesne Light Company, Ohio Edison Company, and Pennsylvania Power Company (the licensees) dated November 7, 1985 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.
2. Accordingly, Facility Operating License DPR-66 is amended by changing paragraph 2.F to read as follows:
 - 2.F This amended license is effective as of the date of issuance and shall expire at midnight on January 29, 2016.

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3. This amendment is effective on issuance, to be implemented no later than 30 days after issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Thomas M. Novak, Acting Director
Division of PWR Licensing-A
Office of Nuclear Reactor Regulation

Date of Issuance: December 30, 1986



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 106 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

INTRODUCTION

By application dated November 7, 1986, Duquesne Light Company (the licensee) requested an amendment to the facility operating license for Beaver Valley Power Station, Unit No. 1 (BVPS-1). The proposed amendment would change the expiration date for the Unit 1 Facility Operating License, DPR-66, from June 25, 2010 to January 29, 2016.

DISCUSSION AND EVALUATION

Section 103.c of the Atomic Energy Act of 1954 provides that a license is to be issued for a specified period not exceeding 40 years. 10 CFR 50.51 specifies that each license will be issued for a fixed period of time not to exceed 40 years from the date of issuance. 10 CFR 50.56 and 10 CFR 50.57 allow the issuance of an operating license pursuant to 10 CFR 50.51 after the construction of the facility has been substantially completed, in conformity with the construction permit, and when other provisions specified in 10 CFR 50.57 are met. The currently licensed term for the BVPS-1 is 40 years, commencing with the issuance of the construction permit (June 26, 1970). Accounting for the time that was required for plant construction, this represents an effective operating license term of 34 years and 11 months. Consistent with Section 103.c of the Atomic Energy Act and Sections 50.51, 50.56 and 50.57 of the Commission's regulations, the licensee, by its application of November 7, 1985, seeks an extension of the operating license term for BVPS-1 such that the 40-year period of the license would commence from the issuance date of the operating license.

The licensee's request for extension of the operating license is based on the fact that a 40-year service life was considered during the design and construction of the plant. Although this does not mean that some components will not wear out during the plant lifetime, design features were incorporated which maximize the inspectability of structures, systems and equipment. Surveillance and maintenance practices which were implemented in accordance with the ASME

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code and the facility Technical Specifications provide assurance that any unexpected degradation in plant equipment will be identified and corrected.

The design of the reactor vessel and its internals considered the effects of 40 years of operation at full power and a comprehensive vessel material surveillance program is maintained in accordance with 10 CFR Part 50, Appendix H. We have completed our analyses related to the pressurized thermal shock (PTS) rule, 10 CFR 50.61, for BVPS-1. By our letter dated August 11, 1986, the licensee was given our review results showing that the most critical weld materials for the reactor vessel meet the criteria of 10 CFR 50.61 by a large margin at the end of the 40-year operating life (32 effective full power years). In addition to these calculations, surveillance capsules placed inside the reactor vessel provide a means of monitoring the cumulative effects of power operation.

Aging analyses have been performed for all safety-related electrical equipment in accordance with 10 CFR 50.49, "Environmental Qualification of Electrical Equipment Important to Safety for Nuclear Power Plants," identifying the qualified lifetimes for this equipment. These lifetimes will be incorporated into plant equipment maintenance and replacement practices to ensure that all safety-related electrical equipment remains qualified and available to perform its safety function regardless of the overall age of the plant (See our letter to the licensee, dated March 7, 1985).

We have discussed, in detail, matters regarding the projected population growth in the Environmental Assessment (letter to the licensee dated December 17, 1986). Therefore, the discussion about population in the Environmental Assessment is incorporated by reference.

Based upon the above, we conclude that extension of the operating license for BVSP-1 to allow a 40-year service life is consistent with various safety analyses in that all issues associated with plant aging have already been addressed. Accordingly, we find the proposed change to the expiration date of the BVPS-1 Facility Operating License No. DPR-66 to be acceptable.

ENVIRONMENTAL CONSIDERATION

A Notice of Issuance of an Environmental Assessment and Finding of No Significant Impact relating to the proposed extension of facility operating license termination dates for the BVPS-1 was published in the Federal Register on December 23, 1986 (51 FR 45971).

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: December 30, 1986

Principal Contributors:

Peter S. Tam, Project Manager
Jaime Guillen, Project Engineer