

March 21, 1988

Docket No. 50-334

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

Dear Mr. Sieber:

SUBJECT: ISSUANCE OF AMENDMENT (LICENSING ACTION TAC 65781)

The Commission has issued the enclosed Amendment No. 122 to Facility Operating License No. DPR-66 for the Beaver Valley Power Station, Unit No. 1. The amendment consists of changes to the Technical Specifications in response to your application dated July 1, 1987 and supplemented by letter dated October 26, 1987.

The amendment changes the Technical Specifications for Beaver Valley Unit No. 1 regarding station battery voltage requirements. Part of your requested change, that regarding battery specific gravity, cannot be granted. We have provided the reasons in the related Safety Evaluation, and have also enclosed the Notice of Denial.

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

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. 122 to DPR-66
- 2. Safety Evaluation
- 3. Notice of Denial

cc w/enclosures:
See next page

DISTRIBUTION

Docket File	D. Hagan
NRC & Local PDRs	E. Jordan
PDI-4 R/F	J. Partlow
S. Varga	T. Barnhart(4)
B. Boger	Wanda Jones
S. Norris	E. Butcher
P. Tam	ACRS (10)
OGC-WF	GPA/PA
ARM/LFMB	Grey File

Handwritten signature of Peter S. Tam and date 3/18/88.

LA: PDI-4	PM: PDI-4	D: PDI-4	OGC
SN: PIS	PTam	JStolz	JScinto
03/1/88	03/1/88	03/18/88	03/1/88

8804140511 880321
PDR ADOCK 05000334
P PDR

Mr. J. Sieber
Duquesne Light Company

cc:

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

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

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

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

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

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

Beaver Valley Power Station
Units 1 & 2

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

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

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

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

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

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. 1??
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 July 1, 1987 and supplemented by letter dated October 26, 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.

8804140515 880321
PDR ADDCK 05000334
P PDR

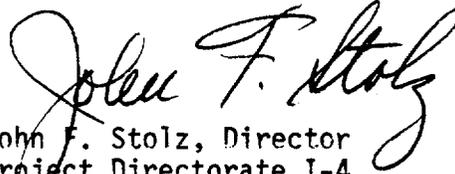
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-66 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 122, 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 no later than 30 days after 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: March 21, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 122

FACILITY OPERATING LICENSE NO. DPR-66

DOCKET NO. 50-334

Replace the following page of the 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 8-8

Insert

3/4 8-8

Electrical Power Systems

DC Distribution - Operating

LIMITING CONDITION FOR OPERATION

3.8.2.3 The following DC bus trains shall be energized and OPERABLE:

TRAIN "A" (orange) consisting of 125-volt DC busses No. 1-1 & 1-3, 125-volt DC battery banks 1-1 & 1-3 and chargers 1-1 & 1-3.

TRAIN "B" (purple) consisting of 125-volt DC busses No. 1-2 & 1-4, 125-volt DC battery banks 1-2 & 1-4 and chargers 1-2 & 1-4.

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

- a. With one of the required battery banks inoperable, restore the inoperable battery bank to OPERABLE status within 2 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- b. With one of the required full capacity chargers inoperable, demonstrate the OPERABILITY of its associated battery bank by performing Surveillance Requirement 4.8.2.3.2.a.1 within one hour, and at least once per 8 hours thereafter. If any Category A limit in Table 3.8-1 is not met, declare the battery inoperable.

SURVEILLANCE REQUIREMENTS

4.8.2.3.1 Each DC bus train shall be determined OPERABLE and energized at least once per 7 days by verifying correct breaker alignment and indicated power availability.

4.8.2.3.2 Each 125-volt battery bank and charger shall be demonstrated OPERABLE:

- a. At least once per 7 days by verifying that:
 1. The parameters in Table 3.8-1 meet the Category A limits, and
 2. With the battery on float charge the total battery terminal voltage is greater than or equal to:
 - a) 127.8 volts for 60 cell batteries 1-1 and 1-2, and
 - b) 125.67 volts for 59 cell batteries 1-3 and 1-4.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 122 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 letter dated July 1, 1987, the licensee (Duquesne Light Company acting as agent for the other utilities listed above) submitted a request for an amendment to the operating license. The amendment would reflect a design change to the station batteries and would revise certain requirements on battery surveillance. By letter dated September 10, 1987, we requested additional information and the licensee responded in a letter dated October 26, 1987. Our evaluation is as follows.

DISCUSSION AND EVALUATION

Surveillance Requirement 4.8.2.3.2.a.2 (page 3/4 8-8)

The licensee, under its own Design Change Package DCP-673, replaced lead-antimony batteries 1-3 and 1-4 that had 60 cells per battery with lead-calcium batteries that have 59 cells per battery. The design change was made under 10 CFR 50.59, and upgraded the batteries to IEEE 535-1979, "Qualification of Class 1E Lead Storage Batteries for Nuclear Power Generating Stations". The amendment request of July 1, 1987, was submitted to account for the reduction of terminal voltage of batteries 1-3 and 1-4 because of the change in the number of cells per battery. Each battery terminal voltage is determined by multiplying the nominal cell voltage (2.13 volts) by the number of cells. The 59 cell batteries (lead-calcium) 1-3 and 1-4 will thus operate with a minimum terminal voltage of 125.67 volts. The other 60-cell batteries (lead-antimony) 1-1 and 1-2 will continue to operate with a minimum terminal voltage of 127.8 volts.

Based on our review of sizing of the new batteries and 1-4 versus their design margin stated in the Final Safety Analysis Report, we find the licensee's proposed change to the Technical Specifications acceptable.

8804140520 880321
PDR ADDCK 05000334
P PDR

Table 3.8-1 (page 3/4 8-9a) and Bases (page B3/4 8-1 & 8-2)

We have stated our position regarding the requested changes in a letter to the licensee dated September 10, 1987. The licensee responded in a letter dated October 26, 1987.

We have reviewed the response and determined that the requested changes to these pages still cannot be granted.

The current specific gravity value of 1.20 for each cell is based on the Standard Technical Specifications value of 1.20, which in turn was derived from a consensus of utilities and battery vendors. This value is considered necessary to assure adequate capacity and has been uniformly applied to all plant batteries for years without incurring much operational problem. In the absence of technical information regarding specific characteristics of the licensee's new lead-calcium batteries, the value of 1.20 should be retained to assure an adequate reserve capacity for plant equipment.

We understand that an industry group is working on a proposal to lower the value from 1.20 to 1.195. We would review that proposal generically, but must deny the licensee's plant-specific request at this time.

ENVIRONMENTAL CONSIDERATION

This amendment of Section 4.8.2.3.2.a.2 changes surveillance requirements. The staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

CONCLUSION

We have concluded, based on the considerations discussed above, that with respect to amendment of Section 4.8.2.3.2.a.2: (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: March 21, 1988

Principal Contributor:

Peter Kang, reviewer

UNITED STATES NUCLEAR REGULATORY COMMISSIONDUQUESNE LIGHT COMPANYOHIO EDISON COMPANYPENNSYLVANIA POWER COMPANYDOCKET NO. 50-334BEAVER VALLEY POWER STATION, UNIT NO. 1DOCKET NO. 50-334NOTICE OF DENIAL OF AMENDMENT TO FACILITY OPERATING LICENSE
AND OPPORTUNITY FOR HEARING

The U. S. Nuclear Regulatory Commission (the Commission) has denied, in part, a request by Duquesne Light Company, an amendment to Facility Operating License No. DPR-⁶⁶~~50~~, issued to the licensee for operation of the Beaver Valley Power Station, Unit No. 1, located in Beaver County, Pennsylvania. Notice of consideration of issuance of this amendment was published in the FEDERAL REGISTER on August 12, 1987 (52 FR 29915).

The purpose of the licensee's amendment request was to incorporate revised Technical Specification (TS) requirements for operability and surveillance for the station batteries. The revisions were requested due to replacement of two of the four station batteries by two batteries of a different design. Included in this request was a proposed change to lower individual cell electrolyte specific gravity from 1.20 to 1.195.

BB04140528 880321
PDR ADOCK 05000334
P PDR

The staff has denied that proposal to change the specific gravity limit to 1.195. The current specific gravity value of 1.20 for each cell is based on the Standard Technical Specifications value of 1.20, which in turn was derived from a consensus of utilities and battery vendors. This value is considered necessary to assure adequate capacity and has been uniformly applied to all plant batteries for years without incurring much operational problem. In the absence of technical information regarding specific characteristics of the licensee's new lead-calcium batteries, the value of 1.20 should be retained to assure an adequate reserve capacity to power essential equipment.

The other provision of the amendment relating to Section 4.8.2.3.2.a.2 request has been approved by Amendment No. 122 dated March 21, 1988. Notice of Issuance of that amendment will be published in the Commission's biweekly FEDERAL REGISTER notice.

The licensee was notified of the Commission's denial of the proposed TS change by the letter transmitting Amendment No. 122.

By _____, 1988, the licensee may demand a hearing with respect to the denial described above and any person whose interest may be affected by this proceeding may file a written petition for leave to intervene.

A request for hearing or petition for leave to intervene must be filed with the Secretary of the Commission, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Docketing and Service Branch, or may be delivered to the Commission's Public Document Room, 1717 H Street, N.W., Washington, D.C., by the above date.

A copy of any petitions should also be sent to the Office of the General Counsel-Rockville, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, and to Gerald Charnoff of Shaw, Pittman, Potts and Trowbridge, 2300 N Street, N.W., Washington, D.C. 20027, attorney for the licensee.

For further details with respect to this action, see (1) the application for amendment dated July 1, 1987, (2) the Commission's letter to the licensee dated September 10, 1987, and (3) the Commission's Safety Evaluation dated March 21, 1988, issued with Amendment No. 122 to DPR-66.

These documents are available for public inspection at the Commission's Public Document Room, 1717 H Street, Washington D.C. 20555 and at B.F. Jones Memorial Library, 663 Franklin Avenue, Aliquippa, PA 15001. A copy of item (2) and (3) may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Document Control Desk.

Dated at Rockville, Maryland, this 21st day of March, 1988.

FOR THE NUCLEAR REGULATORY COMMISSION



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