

December 14, 1998

Mr. J. E. Cross
President-Generation Group
Duquesne Light Company
Post Office Box 4
Shippingport, PA 15077

SUBJECT: BEAVER VALLEY POWER STATION, UNIT NO. 2 (TAC NO. MA3699)

Dear Mr. Cross:

The Commission has issued the enclosed Amendment No. 95 to Facility Operating License No. NPF-73 for the Beaver Valley Power Station, Unit 2. This amendment consists of changes to the Technical Specifications (TSs) in response to your application dated September 24, 1998, as supplemented November 3, 1998, which submitted License Amendment Request No. 130.

This amendment revises technical specification 3.1.2.8 in two places to change the term "contained volume" to "usable volume." This change eliminates the potential for a non-conservative interpretation of the specification values for the Refueling Water Storage Tank and Boric Acid Storage Tank and thereby eliminates the need for temporary administrative controls, which have been used correctly to properly interpret the specification values as usable volumes.

Your application for this amendment was complete and addressed the relevant issues. The application's no significant hazards consideration determination was suitable for use without changes and the evaluation of environmental considerations was proper.

A copy of our safety evaluation is also enclosed. The Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,
DS

Donald S. Brinkman, Senior Project Manager
Project Directorate I-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-412

Enclosures: 1. Amendment No. 95 to NPF-73
2. Safety Evaluation

cc w/encs: See next page

DISTRIBUTION:

Docket File	MO'Brien	ACRS
PUBLIC	DBrinkman	PEselgroth, RGN-I
PDI-2 Reading	OGC	TCollins
JZwolinski	GHill(2)	THarris (E-Mail SE)
RCapra	WBeckner	

DFD 1/1

OFFICE	PDI-2/PM <i>DS</i>	PDI-2/IA <i>DS</i>	SRXB/BC	OGC <i>W/UCO</i>	PDI-2/D
NAME	DBrinkman:mw	MO'Brien	TCollins <i>to</i>	<i>M. Young</i>	RCapra <i>rec</i>
DATE	11/16/98	11/10/98	11/13/98	12/17/98	12/14/98

OFFICIAL RECORD COPY
DOCUMENT NAME: a:\BVMA3699.AMD

#133

9812230017 981214
PDR ADDCK 05000412
PDR

NRG FILE CENTER COPY

CP-1



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

December 14, 1998

Mr. J. E. Cross
President-Generation Group
Duquesne Light Company
Post Office Box 4
Shippingport, PA 15077

SUBJECT: BEAVER VALLEY POWER STATION, UNIT NO. 2 (TAC NO. MA3699)

Dear Mr. Cross:

The Commission has issued the enclosed Amendment No.95 to Facility Operating License No. NPF-73 for the Beaver Valley Power Station, Unit 2. This amendment consists of changes to the Technical Specifications (TSs) in response to your application dated September 24, 1998, as supplemented November 3, 1998, which submitted License Amendment Request No. 130.

This amendment revises technical specification 3.1.2.8 in two places to change the term "contained volume" to "usable volume." This change eliminates the potential for a non-conservative interpretation of the specification values for the Refueling Water Storage Tank and Boric Acid Storage Tank and thereby eliminates the need for temporary administrative controls, which have been used correctly to properly interpret the specification values as usable volumes.

Your application for this amendment was complete and addressed the relevant issues. The application's no significant hazards consideration determination was suitable for use without changes and the evaluation of environmental considerations was proper.

A copy of our safety evaluation is also enclosed. The Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

A handwritten signature in cursive script that reads "Donald S. Brinkman".

Donald S. Brinkman, Senior Project Manager
Project Directorate I-2
Division of Reactor Projects - VII
Office of Nuclear Reactor Regulation

Docket No. 50-412

Enclosures: 1. Amendment No.95 to NPF-73
2. Safety Evaluation

cc w/encs: See next page

**J. E. Cross
Duquesne Light Company**

Beaver Valley Power Station, Units 1 & 2

cc:

**Jay E. Silberg, Esquire
Shaw, Pittman, Potts & Trowbridge
2300 N Street, NW.
Washington, DC 20037**

**Bureau of Radiation Protection
Pennsylvania Department of
Environmental Resources
ATTN: Michael P. Murphy
Post Office Box 2063
Harrisburg, PA 17120**

**Director-Safety and Licensing
Department (BV-A)
Duquesne Light Company
Beaver Valley Power Station
PO Box 4
Shippingport, PA 15077**

**Mayor of the Borough of
Shippingport
Post Office Box 3
Shippingport, PA 15077**

**Commissioner Roy M. Smith
West Virginia Department of Labor
Building 3, Room 319
Capitol Complex
Charleston, WV 25305**

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

**Director, Utilities Department
Public Utilities Commission
180 East Broad Street
Columbus, OH 43266-0573**

**Resident Inspector
U.S. Nuclear Regulatory Commission
Post Office Box 298
Shippingport, PA 15077**

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

**Duquesne Light Company
Beaver Valley Power Station
PO Box 4
Shippingport, PA 15077
ATTN: S. C. Jain, Senior Vice President
Nuclear Services (BV-A)**

**Ohio EPA-DERR
ATTN: Zack A. Clayton
Post Office Box 1049
Columbus, OH 43266-0149**

**Mr. J. A. Hultz, Manager
Projects & Support Services
First Energy
76 South Main Street
Akron, OH 44308**

**Dr. Judith Johnsrud
National Energy Committee
Sierra Club
433 Orlando Avenue
State College, PA 16803**

**Duquesne Light Company
Beaver Valley Power Station
PO Box 4
Shippingport, PA 15077
ATTN: Kevin L. Ostrowski, Division Vice
President, Nuclear Operations Group
and Plant Manager (BV-SOSB-7)**



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

DUQUESNE LIGHT COMPANY

OHIO EDISON COMPANY

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

THE TOLEDO EDISON COMPANY

DOCKET NO. 50-412

BEAVER VALLEY POWER STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 95
License No. NPF-73

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Duquesne Light Company, et al. (the licensee) dated September 24, 1998, as supplemented November 3, 1998, 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.

9812230023 981214
PDR ADOCK 05000412
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. NPF-73 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 95, and the Environmental Protection Plan contained in Appendix B, both of which are attached hereto, are hereby incorporated in the license. DLCO shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of the date of its issuance, to be implemented within 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION

Robert A. Capra

Robert A. Capra, Director
Project Directorate I-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical
Specifications

Date of Issuance: December 14, 1998

ATTACHMENT TO LICENSE AMENDMENT NO. 95

FACILITY OPERATING LICENSE NO. NPF-73

DOCKET NO. 50-412

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 1-15

Insert

3/4 1-15

NPF-73
REACTIVITY CONTROL SYSTEMS

BORATED WATER SOURCES - OPERATING

LIMITING CONDITION FOR OPERATION

3.1.2.8 As a minimum, the following borated water source(s) shall be OPERABLE as required by Specification 3.1.2.2.

- a. A boric acid storage system with:
 - 1. A minimum usable volume of 13,390 gallons,
 - 2. Between 7000 and 7700 ppm of boron, and
 - 3. A minimum solution temperature of 65°F.
- b. The refueling water storage tank with:
 - 1. A minimum usable volume of 859,248 gallons,
 - 2. A boron concentration between 2000 and 2100 ppm, and
 - 3. A solution temperature of $\geq 45^{\circ}\text{F}$ and $\leq 50^{\circ}\text{F}$.

APPLICABILITY: MODES 1, 2, 3 & 4.

ACTION:

- a. With the boric acid storage system inoperable, restore the storage system to OPERABLE status within 72 hours or be in at least HOT STANDBY and borated to a SHUTDOWN MARGIN equivalent to at least $1\% \Delta k/k$ at 200°F within the next 6 hours; restore the boric acid storage system to OPERABLE status within the next 7 days or be in COLD SHUTDOWN within the next 30 hours.
- b. With the refueling water storage tank inoperable, restore the tank to OPERABLE status within one hour or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

SURVEILLANCE REQUIREMENTS

4.1.2.8 Each borated water source shall be demonstrated OPERABLE:



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 95 TO FACILITY OPERATING LICENSE NO. NPF-73

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

BEAVER VALLEY POWER STATION, UNIT 2

DOCKET NO. 50-412

1.0 INTRODUCTION

By letter dated September 24, 1998, as supplemented November 3, 1998, the Duquesne Light Company (the licensee) submitted a request for changes to the Beaver Valley Power Station, Unit No. 2 (BVPS-2), Technical Specifications (TSs). The requested changes would revise TS 3.1.2.8 in two places to change the term "contained volume" to "usable volume." This change would eliminate the potential for a non-conservative interpretation of the specification values for the Refueling Water Storage Tank (RWST) and Boric Acid Storage Tank (BAT) thereby eliminating the need for temporary administrative controls which have been used correctly to properly interpret the specification values as usable volumes. The November 3, 1998, letter provided a minor editorial change to the TS page that did not change the initial proposed no significant hazards consideration determination or expand the amendment request beyond the scope of the November 4, 1998, Federal Register notice.

2.0 EVALUATION

The BVPS-2 accident analyses are based upon having a volume of 859,248 gallons of borated water available in the RWST for injection into the reactor coolant system and containment by the emergency core cooling system. TS 3.1.2.8.b specifies a minimum contained volume of 859,248 gallons in the RWST. However, due to the configuration of the RWST and quench spray system suction piping, the RWST also contains an unusable volume of 31,824 gallons. The licensee has been implementing interim administrative controls to ensure that the RWST actually contains a minimum of 891,072 gallons (859,248 usable gallons plus the 31,824 unusable gallons). The NRC staff has reviewed and found these administrative controls acceptable (see NRC Inspection Report 50-412/98-05). The licensee has now proposed to revise TS 3.1.2.8.b to clarify that the 859,248 gallons must be a usable volume. The NRC staff has reviewed the licensee's proposed change and has concluded that the proposed change to TS 3.1.2.8.b clarifies that the RWST must contain a usable volume of 859,248 gallons. This volume of water is consistent with the BVPS-2 accident analysis and therefore, the proposed change to TS 3.1.2.8.b is acceptable.

Similar to the requirements of TS 3.1.2.8.b regarding RWST water volume, TS 3.1.2.8.a specifies a minimum contained volume of 13,390 gallons of borated water in the BAT. This TS requirement is also intended to provide that the specified volume of water (13,390 gallons) be available for injection into the reactor coolant system for reactivity control. Like the RWST, the BAT also contains unusable volumes. The unusable volumes in each of the two tanks is 678 gallons for a combined unusable volume of 1356 gallons. The licensee has been implementing interim administrative controls to ensure that the BAT actually contains a minimum

of 14,746 gallons (13,390 usable gallons plus the 1356 unusable gallons). The licensee has now proposed to revise TS 3.1.2.8.a to clarify that the 13,390 gallons must be a usable volume. The NRC staff has reviewed the licensee's proposed change and has concluded that the proposed change to TS 3.1.2.8.a clarifies that the BAT must contain a usable volume of 13,390 gallons. This volume of water is consistent with that required for the reactivity control specified in the Bases for TS 3.1.2.8.a and therefore, the proposed change to TS 3.1.2.8.a is acceptable.

3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Pennsylvania State official was notified of the proposed issuance of the amendment. The State official had no comments.

4.0 ENVIRONMENTAL CONSIDERATION

The amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The NRC 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 the amendment involves no significant hazards consideration, and there has been no public comment on such finding (63 FR 59591). Accordingly, the 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 the amendment.

5.0 CONCLUSION

The Commission has 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, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: D. Brinkman

Date: December 14, 1998