



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

February 28, 2000

Mr. L. W. Myers
 Senior Vice President
 Beaver Valley Power Station
 Post Office Box 4
 Shippingport, PA 15077

SUBJECT: BEAVER VALLEY 2 - ISSUANCE OF AMENDMENT TO REVISE THE MINIMUM REQUIRED VOLUME IN PRIMARY PLANT DEMINERALIZED WATER (PPDW) STORAGE TANK (TAC NO. MA5075)

Dear Mr. Myers:

The Commission has issued the enclosed Amendment No. 106 to Facility Operating License No. NPF-73 for the Beaver Valley Power Station, Unit No. 2 (BVPS-2). This amendment consists of changes to the Technical Specifications (TSs) in response to the application dated March 16, 1999, filed by Duquesne Light Company (DLC), as the then licensee for BVPS-2, which submitted License Amendment Request No. 136.

On the date of the March 16, 1999, application, DLC was the licensed operator for Beaver Valley Power Station, Unit Nos. 1 (BVPS-1) and BVPS-2. On December 3, 1999, DLC's ownership interests in BVPS-1 and BVPS-2 were transferred to the Pennsylvania Power Company (Penn Power), and DLC's operating authority for BVPS-1 and BVPS-2 was transferred to FirstEnergy Nuclear Operating Company (FENOC). By letter dated December 13, 1999, FENOC requested that the Nuclear Regulatory Commission (NRC) continue to review and act upon all requests before the Commission which had been submitted by DLC. Accordingly, the NRC staff has completed its review of the requested amendment.

This amendment revises TS 3/4.7.1.3 and associated Bases for the PPDW system to clarify that the minimum specified volume of water in the PPDW Storage Tank is a usable volume. Additionally, the minimum usable volume of water in the PPDW Storage Tank is increased, and a clarifying footnote that the specified value is an analysis value is added. Finally, several editorial and administrative changes, such as revision of action statement wording, addition of license number to TS page, and addition of clarifying information to the TS Bases regarding analysis assumptions are made.

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L. W. Myers

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February 28, 2000

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,

/RA/

Daniel S. Collins, Project Manager, Section 1
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-412

Enclosures: 1. Amendment No. 106 to NPF-73
2. Safety Evaluation

cc w/encls: See next page

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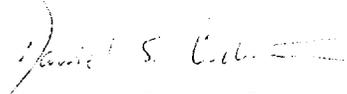
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L. W. Myers

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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,



Daniel S. Collins, Project Manager, Section 1
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-412

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2. Safety Evaluation

cc w/encls: See next page

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UNITED STATES
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WASHINGTON, D.C. 20555-0001

PENNSYLVANIA POWER COMPANY

OHIO EDISON COMPANY

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

THE TOLEDO EDISON COMPANY

FIRSTENERGY NUCLEAR OPERATING COMPANY

DOCKET NO. 50-412

BEAVER VALLEY POWER STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 106
License No. NPF-73

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by FirstEnergy Nuclear Operating Company, et al. (the licensee) dated March 16, 1999, 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, 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. 106 , and the Environmental Protection Plan contained in Appendix B, both of which are attached hereto are hereby incorporated in the license. FENOC 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 and shall be implemented within 60 days.

FOR THE NUCLEAR REGULATORY COMMISSION



Marsha Gamberoni, Acting Chief, Section 1
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical Specifications

Date of Issuance: February 28, 2000

ATTACHMENT TO LICENSE AMENDMENT NO. 106

FACILITY OPERATING LICENSE NO. NPF-73

DOCKET NO. 50-412

Replace the following pages of Appendix A Technical Specifications with the attached revised pages. The revised pages are identified by amendment number and contain marginal lines indicating the areas of change.

Remove Page

3/4 7-6
B 3/4 7-2j

Insert Page

3/4 7-6
B 3/4 7-2j

NPF-73
PLANT SYSTEMS

PRIMARY PLANT DEMINERALIZED WATER (PPDW)

LIMITING CONDITION FOR OPERATION

3.7.1.3 The primary plant demineralized water storage tank shall be OPERABLE with a minimum usable volume of 127,500 gallons. ⁽¹⁾

APPLICABILITY: MODES 1, 2 and 3.

ACTION:

With the PPDW storage tank water volume not within the limit, within 4 hours either:

- a. Restore the water volume to within the limit or be in HOT SHUTDOWN within the next 12 hours, or
- b. Demonstrate the OPERABILITY of the service water system as a backup supply to the auxiliary feedwater pumps and restore the PPDW storage tank water volume to within its limit within 7 days or be in HOT SHUTDOWN within the next 12 hours.

SURVEILLANCE REQUIREMENTS

4.7.1.3 The PPDW storage tank shall be demonstrated OPERABLE at least once per 12 hours by verifying the water level.

(1) The required volume is an analysis value. This value shall be appropriately increased to account for measurement uncertainties.

BASES

3/4.7.1.3 PRIMARY PLANT DEMINERALIZED WATER (PPDW)

The OPERABILITY of the PPDW storage tank with the minimum water volume ensures that sufficient water is available to maintain the RCS at HOT STANDBY conditions for 9 hours with steam discharge to atmosphere with no reactor coolant pumps in operation.

3/4.7.1.4 ACTIVITY

The limitations on secondary system specific activity ensure that steam releases to the environment will not be significant contributors to radioactivity releases resulting from analyzed accidents. Many of the analyzed accidents assume that a loss of auxiliary AC power occurs, making the main condenser unavailable for plant cooldown, and making it necessary to dump steam to the environment via SG atmospheric dump valves. Maintaining secondary system specific activity within the limits ensures that these releases, in conjunction with other releases associated with the accident, will be within applicable dose criteria.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 106 TO FACILITY OPERATING LICENSE NO NPF-73

PENNSYLVANIA POWER COMPANY

OHIO EDISON COMPANY

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

THE TOLEDO EDISON COMPANY

FIRSTENERGY NUCLEAR OPERATING COMPANY

BEAVER VALLEY POWER STATION, UNIT 2

DOCKET NO. 50-412

1.0 INTRODUCTION

By letter dated March 16, 1999, the Duquesne Light Company (DLC) submitted a request for changes to the Beaver Valley Power Station, Unit 2 (BVPS-2), Technical Specifications (TSs). The requested changes would revise TS 3/4.7.1.3 and associated Bases for the Primary Plant Demineralized Water (PPDW) system to clarify that the minimum specified volume of water in the PPDW Storage Tank is a usable volume. Additionally, the minimum usable volume of water in the PPDW Storage Tank would be increased, and a clarifying footnote that the specified value is an analysis value would be added. Finally, several editorial and administrative changes, such as revision of action statement wording, addition of license number to TS page, and addition of clarifying information to the TS Bases regarding analysis assumptions, would be made. These changes would eliminate the potential for a non-conservative interpretation of the specification value for the PPDW Storage Tank thereby eliminating the need for temporary administrative controls which have been used correctly to properly interpret the specification value as a usable value and use the correct minimum volume.

On the date of the March 16, 1999, letter, DLC was the licensed operator for Beaver Valley Power Station, Unit 1 (BVPS-1) and BVPS-2. On December 3, 1999, DLC's ownership interests in both BVPS-1 and BVPS-2 were transferred to the Pennsylvania Power Company, and DLC's operating authority for BVPS-1 and BVPS-2 was transferred to FirstEnergy Nuclear Operating Company (FENOC). By letter dated December 13, 1999, FENOC requested that the Nuclear Regulatory Commission (NRC) continue to review and act upon all requests before the Commission which had been submitted by DLC.

2.0 EVALUATION

As discussed in the BVPS-2 Updated Final Safety Analysis Report, Section 10.4.9.2, the BVPS-2 accident analyses are based upon having a minimum deliverable volume of 127,500 gallons of water available in the PPDW Storage Tank. The licensee stated in the application that the most limiting calculation derives this as the minimum volume required to maintain the plant in Mode 3 for 9 hours in a main feedwater line break accident scenario with no reactor coolant pumps (RCPs) running while only the PPDW Storage Tank is used to supply the Auxiliary Feed Water (AFW) pumps. TS 3/4.7.1.3 specifies a minimum contained volume of 127,000 gallons in the PPDW Storage Tank. Additionally, due to the configuration of the PPDW Storage Tank and the AFW pump suction piping, the PPDW Storage Tank also contains an unusable volume of approximately 10,575 gallons. The licensee has implemented interim administrative controls to ensure that the PPDW Storage Tank actually contains a minimum usable volume of 127,500 gallons in accordance with the analysis assumptions. The licensee has now proposed: (1) to revise the Limiting Condition for Operation (LCO) of TS 3/4.7.1.3 to clarify that the PPDW Storage Tank must contain a minimum usable volume of 127,500 gallons, and; (2) revision of the wording of the TS 3.7.1.3 action statement from "With less than 127,000 gallons of water in the PPDW storage tank," to "With the PPDW storage tank water volume not within the limit...". The NRC staff has reviewed the proposed change to the LCO and concludes that this proposed change clarifies that the PPDW Storage Tank must contain a usable volume of 127,500 gallons. This volume is consistent with the BVPS-2 accident analyses and, therefore, is acceptable. Since the revised specification explicitly states that the limit is a minimum usable volume of 127,500 gallons, the proposed change to the action statement wording is editorial in nature and does not change the limit or the required actions. Therefore, the NRC staff concludes that this proposed change is also acceptable.

In addition to the proposed changes to TS 3/4.7.1.3 discussed above, the licensee has proposed addition of a footnote to the TSs to clarify that the required volume specified in the LCO is an analysis value and that the value must be increased to adequately account for measurement uncertainties. The NRC staff concludes that this is an appropriate clarification to ensure that the minimum requirements will be met. Therefore, this proposed change is acceptable.

In conjunction with the proposed changes to TS 3/4.7.1.3, the licensee has proposed revision of the associate TS Bases to clarify that an analysis assumption for the minimum PPDW Storage Tank water volume is that no RCPs are operating during the 9-hour time period in which only the PPDW Storage Tank is used to supply the Auxiliary Feed Water (AFW) pumps to maintain the plant in Mode 3. This revision to the Bases adds additional detail regarding the analysis assumptions. The NRC staff has no objections to this proposed TS Bases revision.

Finally, the licensee has proposed an editorial change to add the license number to the top margin of TS page 3/4 7-6. The resulting page format will be consistent with the standard format for the BVPS-2 TSs. Therefore, the NRC staff finds this change to be acceptable.

3.0 STATE CONSULTATION

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

5.0 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 and changes surveillance requirements. The NRC staff has determined that the amendments involve 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 amendments involve no significant hazards consideration, and there has been no public comment on such finding (64 FR 19556). Accordingly, the amendments meet 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 amendments.

6.0 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 amendments will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: D. Collins

Date: February 28, 2000