

Law W. Myers
Senior Vice President724-682-5234
Fax: 724-643-8069January 18, 2001
L-01-006U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555-0001**Subject: Beaver Valley Power Station, Unit No. 1 and No. 2
BV-1 Docket No. 50-334, License No. DPR-66
BV-2 Docket No. 50-412, License No. NPF-73
License Amendment Request Nos. 289 and 161**

Pursuant to 10 CFR 50.90, FirstEnergy Nuclear Operating Company (FENOC) requests an amendment to the above licenses in the form of changes to the technical specifications and a Unit 1 and Unit 2 operating license condition. The proposed amendment revises the operating license by increasing the rated thermal power from 2652 MWt to 2689 MWt (approximately 1.4%); revises an operating license condition for Unit 2 to achieve consistency with Unit 1; revises the definition of RATED THERMAL POWER (RTP); revises Technical Specification Section 6.9.5(b) to reference two Caldon Topical Reports; revises Unit 2 Technical Specification 3/4.4.9, "Pressure/Temperature Limits," heatup/cooldown curves (Figures 3.4-2 and 3.4-3) and the associated Bases; and revises Technical Specification 3.7.1.1, "Main Steam Safety Valves (MSSVs)" and the associated Bases. The technical specification index for Unit 1 is also revised and the affected technical specification and the associated Bases for both units are repaginated as necessary to meet format requirements.

This License Amendment Request contains four Attachments and four Enclosures. Attachments A-1 and A-2 contain the marked-up Technical Specification and Bases pages for each unit. Attachment B contains eight sections. These sections are Description of the Amendment Request, Design Bases, Justification, Safety Analyses, No Significant Hazards Evaluation, No Significant Hazards Consideration Determination pursuant to 10 CFR 50.91, Environmental Impact Considerations pursuant to 10 CFR 501.22(c)(9), and References. Attachment C lists commitments that FENOC is making in association with the proposed 1.4% power uprate.

Enclosure 1, "Beaver Valley Units 1 and 2, 1.4-Percent Power Uprate Program, FENOC Licensing Submittal, January 2001" contains the design bases and safety analysis applicable to the power uprate.

APD1

Enclosure 2 contains Caldon, Inc. Engineering Report ER-157P, "Supplement to Topical Report ER-80P: Basis for a Power Uprate With the LEFM[✓]TM or CheckPlusTM System," Revision 2, December 2000 (proprietary).

Enclosure 3 contains Caldon, Inc. Engineering Report ER-157N, "Supplement to Topical Report ER-80P: Basis for a Power Uprate With the LEFM[✓]TM or CheckPlusTM System," Revision 2, December 2000 (non-proprietary).

Enclosure 4 contains Affidavit CAW-01-01. As the report in Enclosure 2 contains information proprietary to Caldon, it is supported by the affidavit signed by Caldon, the owner of the information. Accordingly, Enclosure 4 includes a Caldon Application for Withholding Proprietary Information from Public Disclosure. The affidavit set forth the basis on which the requested information may be withheld from public disclosure by the Commission, and addresses with specificity the considerations listed in paragraph (b)(4) of 10 CFR 2.790 of the Commission's regulations. Accordingly, FENOC requests that the information, which is proprietary to Caldon, be withheld from public disclosure in accordance with 10 CFR 2.790.

Correspondence regarding the proprietary aspects of the Caldon report contained in Enclosure 2, or the supporting affidavit, should reference Caldon letter CAW-01-01 and be addressed to Calvin R. Hastings, President and CEO, Caldon Incorporated, 1070 Banksville Avenue, Pittsburgh, Pa., 15216.

The proposed increase in rated thermal power is based on a reallocation of analytical margin originally required of Emergency Core Cooling System (ECCS) evaluation models performed in accordance with 10 CFR 50 Appendix K, "ECCS Evaluation Models." This approach is consistent with recent changes to Appendix K that allowed justification of plant-specific uncertainties versus a mandated 2% power uncertainty. The reduced uncertainty is achieved by using Caldon Leading Edge Flow Meter (LEFM) instrumentation to improve the accuracy of the feedwater mass flow input to the plant power calorimetric measurement. A similar uprate has been approved for Comanche Peak and is currently under NRC review for Watts Bar.

The proposed changes to Unit 2 Technical Specification 3/4.4.9, "Pressure/Temperature Limits," heatup/cooldown curves (Figures 3.4-2 and 3.4-3) and the associated Bases are being made to impose a conservative projection of the increase in neutron fluence associated with the power uprate. This projection will ensure that the requirements of 10 CFR 50, Appendix G, "Fracture Toughness Requirements," will continue to be met following the power uprate.

The proposed changes to Technical Specification 3.7.1.1, "Main Steam Safety Valves (MSSVs)" and the associated Bases are being made to be consistent with Westinghouse

Nuclear Safety Advisory Letter, NSAL-94-001, "Operation at Reduced Power Levels with Inoperable MSSVs," dated January 20, 1994, Technical Specification Traveler Form-235 (TSTF-235) Revision 1 and the Improved Standard Technical Specifications (ISTS).

In preparing this License Amendment Request, FENOC has reviewed the Requests for Additional Information (RAI) made by the NRC staff in their review of the Comanche Peak and Watts Bar uprating requests. Where applicable to Beaver Valley, responses to these RAIs are included in Enclosure 1 to this submittal.

This License Amendment Request (LAR) is supported by two others recently submitted by FENOC. The first, LAR 280 (Unit 1) and 151 (Unit 2) dated May 12, 2000, provides the radiological dose analyses that bound the uprating parameters. The second, LAR 286 (Unit 1) and 158 (Unit 2) dated December 27, 2000, proposes changes to core safety limits, and reactor trip and Engineered Safety Features Actuation System (ESFAS) setpoints based on Westinghouse's Revised Thermal Design Procedure (RTDP) methodology. The analyses supporting the RTDP associated changes bound the uprate parameters. The analyses and justification for the power uprate rely on the analyses contained in these previously submitted LARs. These previously submitted LARs are currently being reviewed and require NRC approval to support the proposed power uprate request.

FENOC requests NRC approval of this License Amendment Request by June 1, 2001, to support implementation of the power uprate for the summer of 2001.

These changes have been reviewed by the Beaver Valley review committees. These changes were determined to be safe and do not involve a significant hazard consideration as defined in 10 CFR 50.92 based on the evaluation presented in Attachment B. An implementation period of up to 60 days is requested following the effective date of this amendment.

If there are any questions concerning this matter, please contact Mr. Thomas S. Cosgrove, Manager, Regulatory Affairs at 724-682-5203.

Sincerely,


Lew W. Myers

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License Amendment Request Nos. 289 and 161
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c: Mr. L. J. Burkhart, Project Manager
Mr. D. M. Kern, Sr. Resident Inspector
Mr. H. J. Miller, NRC Region I Administrator
Mr. D. A. Allard, Director BRP/DEP
Mr. L. E. Ryan (BRP/DEP)

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I, Lew W. Myers, being duly sworn, state that I am Senior Vice President of FirstEnergy Nuclear Operating Company (FENOC), that I am authorized to sign and file this submittal with the Nuclear Regulatory Commission on behalf of FENOC, and that the statements made and the matters set forth herein pertaining to FENOC are true and correct to the best of my knowledge and belief.

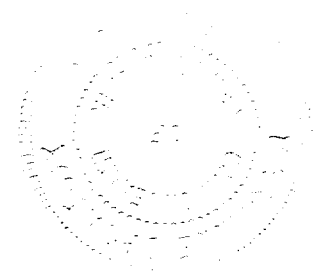
FirstEnergy Nuclear Operating Company



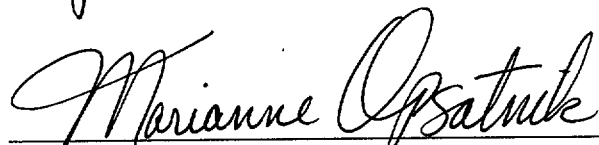
Lew W. Myers
Senior Vice President - FENOC

COMMONWEALTH OF PENNSYLVANIA

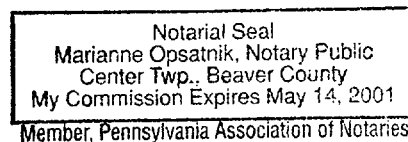
COUNTY OF BEAVER



Subscribed and sworn to me, a Notary Public, in and for the County and State above named, this 18 th day of January, 2001.



My Commission Expires:



ENCLOSURE 4
FirstEnergy Nuclear Operating Company
Beaver Valley Power Station, Unit Nos. 1 and 2

License Amendment Request Nos. 289 and 161
INCREASE CORE RATED THERMAL POWER BY 1.4% TO 2689 MWt

Caldon Affidavit of Proprietary Information.