



FirstEnergy Nuclear Operating Company

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November 24, 2014  
L-14-360

10 CFR 50.71(e)  
10 CFR 50.54(a)  
10 CFR 54.37(b)

ATTN: Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-001

**SUBJECT:**

Beaver Valley Power Station, Unit No. 2  
Docket No. 50-412, License No. NPF-73  
Submittal of the Updated Final Safety Analysis Report, Revision 21

In accordance with the requirements of 10 CFR 50.71(e), the FirstEnergy Nuclear Operating Company (FENOC) is hereby submitting to the Nuclear Regulatory Commission (NRC) the Beaver Valley Power Station (BVPS), Unit No. 2, Updated Final Safety Analysis Report (UFSAR) Revision 21 in CD-ROM format. This submittal reflects facility and procedure changes implemented between November 2, 2012 (the end of Refueling Outage 16), and May 23, 2014 (the end of Refueling Outage 17), along with several changes implemented after Refueling Outage 17.

In accordance with NRC guidance for electronic submissions, Attachment 1 provides a listing of the document components that comprise the enclosed CD-ROM. In addition to the UFSAR, the CD-ROM includes the BVPS, Unit No. 2 Licensing Requirements Manual, Revision 81, and the Technical Specification Bases, Revision 27. The Technical Specification Bases are submitted in accordance with Technical Specification 5.5.10.d, "Technical Specifications (TS) Bases Control Program."

In accordance with 10 CFR 50.54(a), FENOC is hereby submitting a copy of the current revision of the FENOC Quality Assurance Program Manual (QAPM). The QAPM, Revision 19, is included in the enclosed CD-ROM.

Attachment 2 includes a summary of information removed from the BVPS, Unit No. 2 UFSAR in accordance with Appendix A to Nuclear Energy Institute (NEI) 98-03, "Guidelines for Updating Final Safety Analysis Reports," Revision 1.

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FENOC conducted a review of BVPS, Unit No. 2 plant changes for 10 CFR 54.37(b) applicability. No components were determined to meet the criteria for newly identified components as clarified by Regulatory Issue Summary (RIS) 2007-16, Revision 1, "Implementation of the Requirements of 10 CFR 54.34(b) for Holders of Renewed Licenses."

There are no regulatory commitment changes to be submitted in accordance with NEI 99-04, "Guidelines for Managing NRC Commitment Changes."

This certifies, to the best of my judgment and belief, that Revision 21 of the BVPS, Unit No. 2 UFSAR accurately presents changes made since the previous submittal that are necessary to reflect information and analysis submitted to the Commission or pursuant to Commission requirements.

This letter contains no new regulatory commitments. If you have any questions regarding this report, please contact Mr. Thomas A. Lentz, Manager – Fleet Licensing, at 330-315-6810.

Sincerely,



Eric A. Larson

Attachments:

1. Document Components on CD-ROM
2. Information Removed from the BVPS, Unit No. 2 UFSAR

Enclosures:

Beaver Valley Power Station, Unit No. 2 UFSAR, Licensing Requirements Manual, Technical Specification Bases, and QAPM (on CD-ROM)

cc: NRC Region I Administrator  
NRC Resident Inspector  
NRC Project Manager  
Director BRP/DEP (without Enclosures)  
Site BRP/DEP Representative (without Enclosures)

Attachment 1  
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Document Components on CD-ROM  
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<u>File Name</u>	<u>Size</u>
001 UFSAR List of Effective Pages Rev 21.pdf	158KB
002 UFSAR Section 1.pdf	917KB
003 UFSAR Section 2 Part 1 of 2.pdf	5,584KB
004 UFSAR Section 2 Part 2 of 2.pdf	26,726KB
005 UFSAR Section 3 Part 1 of 2.pdf	32,207KB
006 UFSAR Section 3 Part 2 of 2.pdf	13,249KB
007 UFSAR Section 4.pdf	2,376KB
008 UFSAR Section 5.pdf	1,448KB
009 UFSAR Section 6.pdf	4,056KB
010 UFSAR Section 7.pdf	8,899KB
011 UFSAR Section 8.pdf	782KB
012 UFSAR Section 9.pdf	2,874KB
013 UFSAR Section 10.pdf	1,596KB
014 UFSAR Section 11.pdf	929KB
015 UFSAR Section 12.pdf	10,717KB
016 UFSAR Section 13.pdf	137KB
017 UFSAR Section 14.pdf	382KB
018 UFSAR Section 15.pdf	2,197KB
019 UFSAR Section 16.pdf	35KB
020 UFSAR Section 17.pdf	56KB
021 UFSAR Section 18.pdf	26KB
022 UFSAR Section 19.pdf	369KB
023 BVPS-2 LRM Rev 81.pdf	10,675KB
024 BVPS TS Bases Rev 27.pdf	45,711KB
025 FENOC QAPM Rev 19.pdf	2,632KB

Attachment 2  
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Information Removed from BVPS, Unit No. 2 UFSAR  
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In accordance with Nuclear Energy Institute (NEI) 98-03, Revision 1, "Guidelines for Updating Final Safety Analysis Reports," licensees periodically report a brief description of information removed from the Updated Final Safety Analysis Report (UFSAR) and the basis for its removal. The following provides a summary of the information removed from the UFSAR and the basis for removal.

1. Removed the capacity value and associated descriptive text from Section 10.4.9.2 regarding the auxiliary feedwater system (AFW) associated with a loss of main feedwater design basis accident scenario. The statement that the AFW is capable of supplying 400 gallons per minute (gpm) distributed equally to three steam generators within 1 minute following a loss of main feedwater was removed. The ability of the plant and AFW system to mitigate the design basis accident scenario of a loss of main feedwater, as described in UFSAR Section 15.2.7, is unaffected. The information being removed is not a minimum required design basis value, nor is it a design value for the system components. This is information that, if changed during the life of the plant, would have no impact on the ability of the plant structures, systems, and components described in the UFSAR to perform their design basis functions.