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May 18, 2022
L-22-058

10 CFR 50.71(e)
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 26

In accordance with the requirements of 10 CFR 50.71(e), the Energy Harbor Nuclear Corp. is hereby submitting to the Nuclear Regulatory Commission (NRC) the Beaver Valley Power Station, Unit No. 2 (BVPS-2), Updated Final Safety Analysis Report (UFSAR) Revision 26 in CD-ROM format. This submittal reflects facility and procedure changes implemented between May 6, 2020 (the end of Refueling Outage 21), and November 13, 2021 (the end of Refueling Outage 22), along with several changes implemented after Refueling Outage 22.

The BVPS-2 UFSAR Revision 26 incorporates a presentation format change. The format change included adjustments such as the elimination of unnecessary extra pages, correction of spacing, renumbering of pages, and so on. All pages affected by the reformatting were provided with a page indicator of "Rev. 26." Those pages where actual text and table information were changed (non-format related) were indicated with a revision bar.

In accordance with 10 CFR 50.4(b)(6), the BVPS-2 UFSAR Revision 26 is being submitted electronically on a total replacement basis. As required by NRC guidance for electronic submissions to the Commission, Attachment 1 and 2 provide a listing of the document components that make up the two enclosed CD-ROMs. In addition to the UFSAR, the first enclosed CD-ROM includes the following:

- BVPS-2 Licensing Requirements Manual (LRM), Revision 99
- Technical Specification (TS) Bases, Revision 43, submitted to satisfy TS 5.5.10.d, which requires submittal of TS Bases changes implemented without prior NRC approval

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The second enclosed CD-ROM includes the BVPS-2 UFSAR, LRM, and TS Bases with information identified in accordance with NRC Regulatory Issue Summary (RIS) 2015-17, "Review and Submission of Updates to Final Safety Analysis Reports, Emergency Preparedness Documents, and Fire Protection Documents," removed.

In accordance with Appendix A to Nuclear Energy Institute (NEI) 98-03, Revision 1, "Guidelines for Updating Final Safety Analysis Reports," as endorsed by Regulatory Guide 1.181, "Content of the Updated Final Safety Analysis Report in Accordance with 10 CFR 50.71(e)," a summary of information removed from the BVPS-2 UFSAR is provided in Attachment 3.

In accordance with NEI 99-04, "Guidelines for Managing NRC Commitment Changes," as endorsed by NRC RIS 2000-17, "Managing Regulatory Commitments Made by Power Reactor Licensees to the NRC Staff," a summary of regulatory commitment changes is provided in Attachment 4.

Energy Harbor Nuclear Corp. conducted a review of BVPS-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 Information Summary (RIS) 2007-16, Revision 1, "Implementation of the Requirements of 10 CFR 54.34(b) for Holders of Renewed Licenses."

This certifies, to the best of our judgment and belief, that Revision 26 of the BVPS-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. Phil H. Lashley, Manager – Fleet Licensing, at (330) 696-7208.

Sincerely,



John J. Grabnar

Attachments:

1. List of Document Components on CD-ROM 1
2. List of Document Components on CD-ROM 2 (Information Identified Per RIS 2015-17 Removed)
3. Information Removed from BVPS-2 UFSAR
4. Commitment Change Summary Request

Enclosures:

- A. Beaver Valley Power Station, Unit No. 2 UFSAR, Licensing Requirements Manual, and Technical Specification Bases (on CD-ROM 1)
- B. Beaver Valley Power Station, Unit No. 2 UFSAR With Information Identified Per RIS 2015-17 Removed, Licensing Requirements Manual, and Technical Specification Bases (on CD-ROM 2)

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

Attachment 1
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List of Document Components on CD-ROM 1
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<u>File Name</u>	<u>Size</u>
001 UFSAR List of Effective Pages, Rev 26.pdf	148KB
002 UFSAR Section 1.pdf	3,176KB
003 UFSAR Section 2.pdf	37,693KB
004 UFSAR Section 3.pdf	39,339KB
005 UFSAR Section 4.pdf	5,218B
006 UFSAR Section 5.pdf	3,354KB
007 UFSAR Section 6.pdf	12,579KB
008 UFSAR Section 7.pdf	10,501KB
009 UFSAR Section 8.pdf	1,799KB
010 UFSAR Section 9.pdf	6,269KB
011 UFSAR Section 10.pdf	2,524KB
012 UFSAR Section 11.pdf	2,839KB
013 UFSAR Section 12.pdf	4,643KB
014 UFSAR Section 13.pdf	511KB
015 UFSAR Section 14.pdf	831KB
016 UFSAR Section 15.pdf	8,809KB
017 UFSAR Section 16.pdf	84KB
018 UFSAR Section 17.pdf	51KB
019 UFSAR Section 18.pdf	150KB
020 UFSAR Section 19.pdf	1,294KB
021 BVPS-2 LRM Rev 99.pdf	1,433KB
022 BVPS TS Bases, Rev 43.pdf	3,443KB

Attachment 2
L-22-058

List of Document Components on CD-ROM 2
(Information Identified Per RIS 2015-17 Removed)
Page 1 of 1

<u>File Name</u>	<u>Size</u>
001 UFSAR List of Effective Pages, Rev 26.pdf	148KB
002 UFSAR Section 1.pdf	2,969KB
003 UFSAR Section 2.pdf	35,484KB
004 UFSAR Section 3.pdf	33,585KB
005 UFSAR Section 4.pdf	5,217KB
006 UFSAR Section 5.pdf	3,355KB
007 UFSAR Section 6.pdf	12,535KB
008 UFSAR Section 7.pdf	10,501KB
009 UFSAR Section 8.pdf	1,799KB
010 UFSAR Section 9.pdf	6,028KB
011 UFSAR Section 10.pdf	2,523KB
012 UFSAR Section 11.pdf	2,839KB
013 UFSAR Section 12.pdf	4,096KB
014 UFSAR Section 13.pdf	452KB
015 UFSAR Section 14.pdf	831KB
016 UFSAR Section 15.pdf	8,809KB
017 UFSAR Section 16.pdf	84KB
018 UFSAR Section 17.pdf	51KB
019 UFSAR Section 18.pdf	150KB
020 UFSAR Section 19.pdf	1,294KB
021 BVPS-2 LRM Rev 99.pdf	1,433KB
022 BVPS TS Bases, Rev 43.pdf	3,443KB

Information Removed from BVPS-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 excessive detail in the description of the BVPS-2 Plant Safety Monitoring System (PSMS) display component. This change replaces the word plasma with PSMS in Table 7.5-1 and removes the word plasma from the component's description "plasma display" in Section 7.7.2.10. The PSMS channel A display (2PSMS-A) was replaced with a liquid crystal display. The channel B plasma display remains currently installed. Describing the display as plasma is excessive detail and is not relevant to the component's functionality as described in the UFSAR. The removed information has no impact on the ability of plant structures, systems, and components described in the UFSAR to perform their design basis function(s).

Attachment 4
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Commitment Change Summary Request
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COMMITMENT NUMBER / SOURCE / DATE	COMMITMENT DESCRIPTION	CHANGE	REASON FOR CHANGE
BV A2003045K BV-L-06-085, 5/30/2006 (NRC Order Section B.5.b- related commitment)	Procedures will be revised to require, where feasible and practical, consistent with safe fuel handling practices, every attempt will be made to pre-configure the SFP to enable direct replacement of the expended assemblies from the vessel to the final distributed fuel pattern. Where this is not feasible or practical, the fuel will be distributed into the final pattern as soon as possible, but no later than 60 days after subcriticality.	BVPS-1 and BVPS-2 will implement a two-path mitigation strategy for SFP mitigation measures. The preferred method credits TSOAs for SFP external makeup and SFP external spray implementation within 120 minutes. The alternate method disperses discharged fuel assemblies in an approved pattern until they have been subcritical for more than 1.25 years.	The two-path strategy reduces risk associated with fuel movements, while still providing an effective mitigation of the postulated loss of level event.
BV-L-07-009-01 BV-L-07-009, 1/26/2007 (NRC Order Section B.5.b- related commitment)	Plant procedures will include the SFP internal strategy, the SFP external makeup strategy, and the SFP external spray strategy as described in the general description in Attachment 1 of BV-L-07-009.	BVPS-1 and BVPS-2 will implement a two-path mitigation strategy for SFP mitigation measures. The preferred method credits TSOAs for SFP external makeup and SFP external spray implementation within 120 minutes. The alternate method disperses discharged fuel assemblies in an approved pattern until they have been subcritical for more than 1.25 years.	The two-path strategy reduces risk associated with fuel movements, while still providing an effective mitigation of the postulated loss of level event.

List of Abbreviations Used:

BVPS-1	Beaver Valley Power Station, Unit No. 1	SFP	Spent Fuel Pool
BVPS-2	Beaver Valley Power Station, Unit No. 2	TSOA	Time Sensitive Operator Action
NRC	Nuclear Regulatory Commission		