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L-20-181

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

SUBJECT:
Beaver Valley Power Station, Unit Nos. 1 and 2
Docket No. 50-334, License No. DPR-66
Docket No. 50-412, License No. NPF-73
Open Phase Condition Industry Initiative

On March 22, 2016, the Nuclear Energy Institute (NEI) issued a Regulatory Summary Document, "Industry Position on Open Phase Conditions (OPC) in Electronic Power System which Lead to Loss of Safety Functions of both Offsite and Onsite Power Systems (NRC Bulletin 2012-01)" (Accession No. ML16091A099), that addressed the industry's open phase condition (OPC) detection initiative. The document summarized the industry position on the issue, which included the allowance for units with near term permanent shut down plans to provide the Nuclear Regulatory Commission (NRC) staff with alternatives to the industry initiative, if appropriate based on risk considerations.

FirstEnergy Solutions (FES) notified the NRC staff, in a letter dated April 25, 2018 (Accession No. ML18115A007), of its intention to permanently cease power operations at the Beaver Valley Power Station (BVPS), Unit No. 1 by May 31, 2021 and Unit No. 2 by October 31, 2021.

FES notified the NRC staff, in a letter dated November 19, 2018 (Accession No. ML18323A346), that the OPC detection equipment will remain in the monitor mode up until the respective shut down date, noting that the OPC equipment would not be placed in the trip mode of operation.

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In a letter dated March 13, 2020 (Accession No. ML20073N415), Energy Harbor Nuclear Corp. formally withdrew its "Certification of Permanent Cessation of Power Operations" for BVPS, Unit Nos. 1 and 2. During the transition period to early shutdown, the OPC equipment was not placed in an automatic trip mode.

The purpose of this letter is to notify the NRC staff that Energy Harbor Nuclear Corp. has implemented the Industry Initiative on Open Phase Condition, Revision 3 at BVPS, Unit Nos. 1 and 2. BVPS, Unit Nos. 1 and 2 will operate the open phase detection system in alarm-only mode and will not enable the automatic functions. The decision is based on an approved risk assessment, which assessed the acceptable risk between operating with automatic functions versus reliance on manual action to isolate a power supply affected by an OPC. The risk assessment was developed in accordance with NEI 19-02, Revision 0, "Guidance for Assessing Open Phase Condition Implementation Using Risk Insights," dated May 2019.

There are no regulatory commitments contained in this submittal. If there are any questions, or if additional information is required, please contact Mr. Phil H. Lashley, Acting Manager - Nuclear Licensing and Regulatory Affairs, at (330) 696-7208.

Sincerely,



Rod L. Penfield

cc: NRC Region I Administrator
NRC Resident Inspector
NRC Project Manager
Director BRP/DEP
Site BRP/DEP Representative