



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

July 17, 2023

Mr. Barry N. Blair
Site Vice President
Energy Harbor Nuclear Corp.
Beaver Valley Power Station
Mail Stop P-BV-SSB
P.O. Box 4, Route 168
Shippingport, PA 15077-0004

SUBJECT: BEAVER VALLEY POWER STATION, UNIT NOS. 1 AND 2 – CORRECTION TO THE SAFETY EVALUATION ISSUED RELATED TO AMENDMENT NOS. 321 AND 211 RE: CONSOLIDATE FUEL DECAY TIME TECHNICAL SPECIFICATIONS IN A NEW LIMITING CONDITION FOR OPERATION TITLED “DECAY TIME” (EPID L-2022-LLA-0071)

Dear Mr. Blair:

The U.S. Nuclear Regulatory Commission has identified a typographical error in Renewed Facility Operating License (RFOL) Nos. DPR-66 and NPF-73 for the Beaver Valley Power Station, Unit Nos. 1 and 2, respectively. The NRC staff is issuing this letter to correct the errors per the guidance in the NRC memorandum dated January 16, 1997 (Agencywide Documents Access and Management System Accession (ADAMS) No. ML103260096), which is derived from the Staff Requirements Memorandum (ML003754054) for SECY-96-238 (ML20134M324, non-public).

By letter dated May 22, 2023 (ML23102A147), the NRC staff issued Amendment Nos. 321 to RFOL DPR-53 for Beaver Valley, Unit 1, and Amendment 211 for RFOL NPF-73, Unit 2, in response to May 6, 2022, license amendment request (ML22137A049), as supplemented by letters dated December 7, 2022, (ML22341A614) and February 14, 2023 (ML23045A105), from Energy Harbor Nuclear Corp. The amendments revised the Beaver Valley technical specifications (TS) to add limiting condition for operation (LCO) titled “Decay Time” restricting movement of fuel or over fuel that has occupied part of a critical reactor core within the previous 100 hours. The prior TS restrictions on fuel movement involving fuel that had occupied part of a critical reactor core within the previous 100 hours appeared in the APPLICABILITY statements and CONDITIONS of several TS LCOs. Those restrictions were consolidated in a new LCO titled “Decay Time,” so that decay time assumed in the design basis fuel handling accident would be maintained.

After the issuance of Amendments No. 321 and 211, an error was identified in the supporting safety evaluation (SE). On page 12 of the SE, the second paragraph states in part, that in TS 3.8.2 is required to be operable in MODES 4 and 6, during fuel movement in Unit 1. This is an error because TS 3.8.2 is only applicable in Modes 5 and 6 in Unit 1. The NRC staff determined that the error was inadvertently introduced during the preparation of the license amendment and is editorial in nature.

The correction does not change any of the conclusions in the SE associated with the issuance of this amendment and does not affect the associated notice to the public.

The enclosure to this letter contains the corrected version of page 12 of the SE. The revised page contains a marginal line indicating the area of change. Please replace the corresponding page issued by Amendment No. 321 and 211 for Beaver Valley Power Station Units 1 and 2.

The NRC staff regrets any inconvenience this may have caused. If you have any questions, please contact me at 301-415-0489 or by email to Sujata.Goetz@nrc.gov.

Sincerely,

/RA/

Sujata Goetz, Project Manager
Plant Licensing Branch I
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-334 and 50-412

Enclosure:
Corrected Page 12 of the Safety Evaluation

cc: Listserv

CORRECTED PAGE 12 FOR SAFETY EVALUATION
BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NOS. 321 AND 211 TO RENEWED
FACILITY OPERATING LICENSE NOS. DPR-66 AND NPF-73
ENERGY HARBOR NUCLEAR GENERATION LLC
BEAVER VALLEY POWER STATION, UNIT NOS. 1 AND 2
DOCKET NOS. 50-334 AND 50-412

The addition of the proposed LCO 3.9.7, "Decay Time," will make it unnecessary for AC sources to be operable during fuel movement of recently irradiated fuel in Unit 2. Therefore, deletion of REQUIRED ACTION A.2.3 is acceptable and Required Actions A.2.4 and A.2.5 will be renumbered accordingly. Required Action B.3 requires the immediate suspension of movement of recently irradiated fuel assemblies and therefore, deletion of Required Action B.3 is acceptable. The "AND" preceding Required Action B.3 is deleted and Required Actions B.4 and B.5 are renumbered accordingly.

TS 3.8.2 is required to be operable in MODES 5 and 6, during fuel movement in Unit 1, and if fuel movement involving recently irradiated fuel is taking place in Unit 2. The proposed addition of LCO 3.9.7, "Decay Time," makes it unnecessary for AC sources to be operable during fuel movement involving recently irradiated fuel at Unit 2.

For these reasons, the staff finds that the proposed changes to LCO 3.8.2 are consistent with Criterion 3 of 10 CFR 50.36(c)(2)(ii) and are therefore acceptable.

3.7 TS 3.8.5, "DC Sources – Shutdown"

The licensee proposes to delete the APPLICABILITY of LCO 3.8.5 during the movement of fuel assemblies in Beaver Valley, Unit 2.

Currently, LCO 3.8.5 requires DC sources to be operable in shutdown modes, during fuel movement in Unit 1, and if fuel movement involving recently irradiated fuel is taking place at Unit 2. The DC electrical power system provides normal and emergency DC power for the AC emergency power system during all modes of operation. DC Sources are not required to mitigate the consequences of an FHA involving fuel that has decayed at least 100 hours in Unit 2.

The proposed addition of LCO 3.9.7, "Decay Time," will prohibit fuel movement involving recently irradiated fuel and will ensure that movement of recently irradiated fuel assemblies does not occur, making the need for this Required Action A.2.3 unnecessary. Therefore, deletion of Required Action A.2.3 is acceptable and Required Actions A.2.4 and A.2.5 are renumbered accordingly.

DC sources (TS 3.8.5) are only required to be operable in shutdown modes, during fuel movement in Beaver Valley, Unit 1, and if fuel movement involving recently irradiated fuel is taking place in Unit 2. The proposed addition of LCO 3.9.7, "Decay Time," makes it unnecessary for AC sources to be operable during fuel movement involving recently irradiated fuel at Unit 2.

For these reasons, the staff finds that the proposed changes to LCO 3.8.5 are consistent with Criterion 3 of 10 CFR 50.36(c)(2)(ii) and are therefore acceptable.

3.8 TS 3.8.8, "Inverters – Shutdown"

The licensee proposed to delete the APPLICABILITY of LCO 3.8.8 during the movement of fuel assemblies in Beaver Valley, Units 1 and 2.

Currently, LCO 3.8.8 requires that the inverters are only required to be operable in shutdown modes and during fuel movement in Unit 1, and if fuel movement involving recently irradiated fuel is taking place at Unit 2. The inverters are not required to mitigate the consequences of a Unit 2 FHA, involving non-recently irradiated fuel. Since LCO 3.9.7, "Decay Time," will prohibit fuel movement involving recently irradiated fuel, an FHA involving recently irradiated fuel cannot

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