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RBG-48254

10CFR50.46

September 21, 2023

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

Subject: Report of Changes and Errors to 10CFR50.46

River Bend Station – Unit 1
NRC Docket No. 50-458
Renewed Facility Operating License No. NPF-47

Reference: Letter RBG-48198, "Report of Changes and Errors to 10CFR50.46"
dated September 22, 2022

There has been one notice of changes or errors associated with the River Bend Station (RBS) Emergency Core Cooling Systems (ECCS) analysis since the last 10CFR50.46 report provided to the NRC as documented in the reference of this letter. The Table on Page 2 of this letter summarizes the effects on the current ECCS analysis performed by General Electric – Hitachi Nuclear Energy (GEH). The ECCS-LOCA GNF3 analysis is based on the SAFER/PRIME ECCS-LOCA methodology.

Since the last 10CFR50.46 report provided to the NRC, RBS is currently in Cycle 23 with the RBS core composed of the GNF3 fuel type with a peak cladding temperature (PCT) of 1880°F. The PCT for the GNF3 fuel remains well below the 2200°F acceptance criteria of 10CFR50.46.

Notification Letter	Nature Of Change / Error	Estimated PCT Effect (°F)
		GNF3
NL-2023-01	Void in ECCS Piping After Final Check Valve	+25
Previous Periods		
NL-2021-07	Incorrect Recirculation Piping Inside Diameter	0
NL-2021-02	Discrepancy in Inner Cladding Surface Roughness	0
NL-2021-01	Error in Fuel Pellet to Spring Conductance	0
NL-2020-05	Error in Dynamic Gap Conductance Calculation in TASC	0
NL-2020-04	Incorrect fuel lattice elevation selected to generate SAFER inputs	+5
NL-2019-05	Bypass leakage modeling for control rod guide tube to control rod guide housing interface	0
Net of errors / changes		+30
Sum of absolute magnitude of changes / errors		30

This letter does not contain any commitments.

If you have any questions or require additional information, please contact Mr. Randy Crawford at (225) 381-4177 or rcrawfo@entergy.com.

Respectfully,



Randy Crawford

RC/bj

cc: NRC Regional Administrator - Region IV
NRC Project Manager - River Bend Station
NRC Senior Resident Inspector - River Bend Station