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March 13, 2023

GO2-23-034

10 CFR 50.46(a)(3)(ii)

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

Subject: **COLUMBIA GENERATING STATION, DOCKET NO. 50-397
REPORT OF CHANGES OR ERRORS IN EMERGENCY CORE COOLING
SYSTEM LOSS OF COOLANT ACCIDENT ANALYSIS MODELS
PURSUANT TO 10 CFR 50.46**

Dear Sir or Madam:

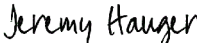
This report is provided in accordance with 10 CFR 50.46(a)(3)(ii), which requires, in part, annual reporting of changes to, or errors in, evaluation models used for calculating Emergency Core Cooling System (ECCS) performance, and an estimate of their effect on the limiting ECCS analysis.

There were no changes or errors reported to Columbia by the fuel vendor. The attached report provides the details related to changes affecting the analysis of record for this reporting period. The licensing basis Peak Clad Temperature for all fuel types in the core remains within the acceptance criteria set forth in 10 CFR 50.46 (i.e., ≤ 2200 °F).

There are no commitments being made to the Nuclear Regulatory Commission herein. If you have any questions, or require additional information, please contact Mr. R.M. Garcia, Acting Manager, Regulatory Affairs, at (509) 377-8463.

Executed on this 13th day of March, 2023.

Respectfully,

DocuSigned by:

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Jeremy S. Hauger
Vice President, Engineering

Attachment: Loss of Coolant Accident Margin Summary Sheet – Annual Report for 2022

cc: NRC Region IV Administrator
NRC NRR Project Manager
NRC Senior Resident Inspector
CD Sonoda – BPA

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Attachment

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**Loss of Coolant Accident Margin Summary
Sheet – Annual Report (Per NFM-4-1 Table 7-b)**

Plant Name: Columbia Generating Station				
Utility Name: Energy Northwest				
Evaluation Model: (Description or Name) GNF-2: SAFER/PRIME-LOCA Models				
			Net PCT Effect	Absolute PCT Effect
	GNF2 Fuel - Prior 10 CFR 50.46 Changes or Error Corrections - Prior year (2022)			0 °F
	GNF2 Fuel - Prior 10 CFR 50.46 Changes or Error Corrections - This year (2023)			0 °F
	GNF2 Fuel - Absolute Sum of 10 CFR 50.46 Changes	ΔPCT =		0 °F

The sum of the PCT (Peak Cladding Temperature) from the most recent analysis using an acceptable evaluation model and the estimates of PCT impact for changes and errors identified since this analysis is less than 2200 °F. PCT prior to this report was 1700 °F for GNF2 fuel.

The current PCT for this report is unchanged for GNF2 fuel.

References:

1. NE-02-03-08 Revision 8, "10CFR50.46 Cumulative PCT – Changes in ECCS LOCA Models"
2. AR 00439717, "Provide Licensing information per 10 CFR 50.46(a)(3)(ii)"
3. NFM-4-1 Revision 3, "Tracking Changes in ECCS LOCA Analysis"