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GNRO-2016/00058

October 27, 2016

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

SUBJECT: 2016 Report of Changes and Errors to 10CFR50.46  
Grand Gulf Nuclear Station, Unit 1  
Docket No. 50-416  
License No. NPF-29

REFERENCES: 1. Letter to the NRC, GNRO-2015/00067, "2015 Report of Changes and Errors to 10CFR50.46," dated October 28, 2015. (ML 15301A048).  
  
2. Letter from the NRC, GNRI-2015/00109, "Issuance of Amendment Regarding Maximum Extended Load Line Limit Analysis Plus," dated August 31, 2015.  
  
3. Letter to the NRC, GNRO-2014/00072, "2014 Report of Changes and Errors to 10CFR50.46," dated November 12, 2014. (ML 14316A171).

Dear Sir or Madam:

In accordance with 10CFR50.46(a)(3)(ii) Grand Gulf Nuclear Station, Unit 1 (GGNS) is required to report to the Commission, at least annually, the estimated effect on the limiting Emergency Core Cooling System (ECCS) analysis caused by changes to or errors discovered in the acceptable ECCS evaluation model.

Since the last 10CFR50.46 report dated October 28, 2015 [see Reference 1], Grand Gulf Nuclear Station was approved for the Maximum Extended Load Line Limit Analysis Plus (MELLLA+) License Amendment [see Reference 2] which affected the Licensing Basis Peak Cladding Temperature (PCT). Since the last 10CFR50.46 report dated October 28, 2015 [see Reference 1], there have been no additional errors discovered in the GGNS ECCS evaluation model [see Reference 3]. Based on the 2016 Supplemental Reload Licensing Report for GGNS Cycle 21, the License Basis PCT was updated to 1730°F for MELLLA+ operation.

The post Refueling Outage 20 (RF20) GGNS core is comprised of only GNF2 fuel and implements MELLLA+ design features. The current Licensing Basis PCT, with Notification Letters included [see Reference 3], results in a projected current PCT  $\leq 1715^{\circ}\text{F}$ . This is below the 2200°F acceptance criterion of 10CFR50.46.

This letter contains no new commitments. Should you have any questions or require additional information, please contact James Nadeau at (601) 437-2103.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Nadeau", written in a cursive style.

JJN/tmm

cc:

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