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10 CFR 72.44

GNRO2024-00006

February 12, 2024

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

SUBJECT: Grand Gulf Nuclear Station Unit 1, Spent Fuel Storage Radioactive Effluent
Release Report for 2023

Grand Gulf Nuclear Station, Unit 1
Docket No. 50-416
License No. NPF-29

Grand Gulf Nuclear Station (GGNS) Certificate of Compliance for Spent Fuel Storage Casks
Section 5.4 requires the submittal of an Annual Radioactive Effluent Release Report.
Additionally, Title 10 Code of Federal Regulations 72.44(d)(3) requires the annual submittal of a
summary of effluents from the independent spent fuel storage installation. The purpose of this
letter is to document effluent radioactive releases for the past calendar year from the
independent spent fuel storage installation.

The HI-STORM 100 cask system is used at the independent spent fuel storage installation. The
HI-STORM 100 cask system does not create any radioactive materials or have a radioactive
waste treatment system. The design of the HI-STORM 100 confinement boundary assures that
there are no credible design basis events that would result in a radiological release to the
environment. There are no other radioactive systems at the GGNS independent spent fuel
storage installation. Therefore, specific operating procedures for the control of radioactive
material are not required, and there were no radionuclides released to the environment in liquid
or gaseous effluents from the independent spent fuel storage installation at GGNS during the
reporting period of January 1, 2023 to December 31, 2023.

There are no commitments contained in this submittal. If you have any questions or need
additional information, please contact Sarah Schwartz, Manager Chemistry at 601-437-2318.

Sincerely,

A handwritten signature in blue ink, appearing to read "JAH", with a stylized flourish at the end.

JAH/ram

cc: NRC Senior Resident Inspector
Grand Gulf Nuclear Station
Port Gibson, MS 39150

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