



Entergy Operations, Inc.
P.O. Box 756
Port Gibson, Mississippi 39150

Jeffery Hardy
Manager Regulatory Assurance
Grand Gulf Nuclear Station
Tel: 802-380-5124

10 CFR 72.44

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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 2021

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 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 GGN 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, 2021 to December 31, 2021.

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

Sincerely,


JH/ram

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

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ATTN: Document Control Desk
Washington, DC 20555-0001

State Health Officer,
Mississippi Department of Health
P.O. Box 1700
Jackson, MS 39215-1700

Director, Division of Radiological Health, Mississippi Department of Health
Mississippi State Department of Health
Division of Radiological Health
3150 Lawson Street
Jackson, MS 39213