



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

**James Nadeau**  
Manager, Regulatory Assurance  
Grand Gulf Nuclear Station  
Tel. (601) 437-2103

GNRO-2017/00018

March 30, 2017

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

**SUBJECT:** Spent Fuel Storage Radioactive Effluent Release Report for 2016  
Grand Gulf Nuclear Station, Unit 1  
Docket No. 50-416  
License No. NPF-29

Dear Sir or Madam:

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 facility. The purpose of this letter is to document effluent radioactive release for the past calendar year from the spent fuel storage casks.

The HI-STORM 100 Cask System does not create any radioactive materials or have any radioactive waste treatment system. Therefore, specific operating procedures for the control of radioactive are not required. The HI-STORM 100 Cask System is also designed and fabricated with a totally seal-welded pressure vessel such that leakage from the confinement boundary is not considered to be a credible occurrence. Therefore, there are no radionuclides released to the environment in liquid or gaseous effluents from the independent spent fuel storage facility at GGNS during the reporting period of January 1, 2016 to December 31, 2016.

This letter contains no new Regulatory Commitments. Should you have any questions or require additional information, please contact Richard Sumrall 601-437-2115.

Sincerely,

JJN/sas

A handwritten signature in cursive script, appearing to read "James Nadeau".

cc: (see next page)

cc: U.S. Nuclear Regulatory Commission  
ATTN: Mr. Siva Lingam, NRR/DORL (w/2)  
Mail Stop OWFN 8 B1  
11555 Rockville Pike  
Rockville, MD 20852-2738

U.S. Nuclear Regulatory Commission  
ATTN: Mr. Kriss M. Kennedy (w/2)  
Regional Administrator, Region IV  
1600 East Lamar Boulevard  
Arlington, TX 76011-4511

Mr. B. J. Smith (w/2)  
Director, Division of Radiological Health  
Mississippi State Department of Health  
Division of Radiological Health  
3150 Lawson Street  
Jackson, MS 39213

Dr. Mary Currier, M.D., M.P.H.  
State Health Officer  
Mississippi Department of Health  
P.O. Box 1700  
Jackson, MS 39215-1700

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