



Entergy Operations, Inc.  
7003 Bald Hill Road  
P.O. Box 756  
Port Gibson, MS 39150  
Tel 601 437 6299

Christina L. Perino  
Manager  
Licensing

GNRO-2012/00010

February 29, 2012

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

SUBJECT: Spent Fuel Storage Radioactive Effluent Release Report for 2011  
Grand Gulf Nuclear Station, Unit 1  
Docket No. 50-416 and 72-50  
License No. NPF-29

Dear Sir or Madam:

Grand Gulf Nuclear Station (GGNS) Certificate of Compliance (CoC) for Spent Fuel Storage Casks, Section 5.4 requires the submittal of an Annual Radioactive Effluent Release Report. Additionally, 10CFR72.44(d)(3) also 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 from the spent fuel storage casks for the 2011 calendar year at GGNS.

The HI-STORM 100 Cask System does not create any radioactive materials or have any radioactive waste treatment systems. The HI-STORM 100 Cask System is 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. There are no gaseous or liquid pathways attributed to the spent fuel stored in the independent spent fuel storage installation. Therefore, there were no radionuclides released to the environment in liquid or gaseous effluents from the independent spent fuel facility at GGNS during the reporting period from January 1, 2011 through December 31, 2011.

There are no new commitments contained in this submittal. Should you have questions regarding this information, please contact Dennis Jackson at (601) 437-2350.

Sincerely,

A handwritten signature in black ink, appearing to read "Christina L. Perino".

CLP/rrj

cc: (see next page)



cc: U. S. Nuclear Regulatory Commission  
ATTN: Mr. Elmo E. Collins, Jr.  
Regional Administrator, Region IV  
1600 East Lamar Boulevard  
Arlington, TX 76011-4511

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

U. S. Nuclear Regulatory Commission  
Attn: Mr. Alan Wang, NRR/DORL  
Mail Stop OWFN/8 B1  
11555 Rockville Pike  
Rockville, MD 20852-2378

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

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