



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-2011/00014

February 28, 2011

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

SUBJECT: Spent Fuel Storage Radioactive Effluent Release Report for 2010
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 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 fulfill these reporting requirements for the 2010 calendar year at GGNS. The HI-STORM 100 Cask System does not create any radioactive materials or have any radioactive waste treatment systems. 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 during the previous 12 months of operation.

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/rj

cc: (see next page)



cc: U. S. Nuclear Regulatory Commission
Mr. Elmo Collins
Regional Administrator, Region IV
612 E. Lamar Blvd., Suite 400
Arlington, TX 76011-4125

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

U. S. Nuclear Regulatory Commission
Attn: Mr. A. Wang, NRR/DORL
MS 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