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**Christina L. Perino**  
Manager  
Licensing

GNRO-2010/00023

March 5, 2010

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

Subject: Spent Fuel Storage Radioactive Effluent Release Report for 2009  
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 for Spent Fuel Storage Casks (CoC) 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 2009 calendar year at GGNS. The HI-STORM 100 Cask System does not create any radioactive materials or have any radioactive waste treatment systems. There is no gaseous or liquid pathway 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 commitments contained in this submittal.

Should you have any questions regarding the enclosed information, please contact J. M. Lassetter at (601) 437-2115.

Sincerely,

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

CLP/MJL

cc: (See Next Page)



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

U. S. Nuclear Regulatory Commission  
ATTN: Mr. Elmo E. Collins (w/2)  
Regional Administrator, Region IV  
612 East Lamar Blvd, Suite 400  
Arlington, TX 76011-4125

U. S. Nuclear Regulatory Commission  
ATTN: Mr. Carl F. Lyon, NRR/ADRO/DORL (w/2)  
Mail Stop OWFN/8 B1  
Washington, DC 20555-0001

Louisiana Department of Environmental Quality  
Office of Environmental Compliance  
Attn: Mr. Jeff Meyers  
Surveillance Division  
P. O. Box 4312  
Baton Rouge, LA 70821-4312