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**Stephenie L Pyle**  
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Arkansas Nuclear One

OCAN021305

February 19, 2013

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Director, Division of Spent Fuel Storage and Transportation  
Office of Nuclear Material Safety and Safeguards  
Washington, DC 20555-0001

SUBJECT: Spent Fuel Storage Radioactive Effluent Release Report for 2012  
Arkansas Nuclear One – Units 1 and 2  
Docket Nos. 50-313, 50-368, and 72-13  
License Nos. DPR-51 and NPF-6

Dear Sir or Madam:

Pursuant to the requirements of 10 CFR 72.44(d)(3), Entergy Operations, Inc. is submitting the annual effluent release report for the independent spent fuel storage facility located at Arkansas Nuclear One (ANO). The report is to specify the quantity of each of the principal radionuclides released to the environment in liquid and in gaseous effluents. This report addresses the operation of the independent spent fuel storage facility located at ANO during the 2012 calendar year.

The spent fuel storage cask systems employed at ANO do not create any radioactive material or have any radioactive waste treatment systems associated with them. There is no gaseous or liquid pathway attributed to the spent fuel stored in the independent spent fuel storage facility. Radiological surveys and current postings were reviewed and demonstrated that no radionuclides were released to the environment in liquid or gaseous effluents during 2012. There is no impact to members of the public from the operation of the ANO independent spent fuel storage facility during the 2012 calendar year.

This fulfills the reporting requirements of 10 CFR 72.44(d)(3).

This letter contains no new commitments.

If you have any questions or require additional information, please contact me.

Sincerely,

***Original signed by Stephenie L. Pyle***

SLP/rwc

cc: Mr. Elmo E. Collins  
Regional Administrator  
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U. S. Nuclear Regulatory Commission  
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