



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

May 29, 2012

Mr. Michael Perito  
Vice President, Site  
Entergy Operations, Inc.  
P.O. Box 756  
Port Gibson, MS 39150

SUBJECT: REQUESTS FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE  
GRAND GULF NUCLEAR STATION LICENSE RENEWAL APPLICATION (TAC  
NO. ME7493)

Dear Mr. Perito:

By letter dated October 28, 2011, Entergy Operations, Inc., submitted an application pursuant to Title 10 of the *Code of Federal Regulations*, Part 54, to renew the operating license for Grand Gulf Nuclear Station, Unit 1 (GGNS) for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, areas where additional information is needed to complete the review.

These requests for additional information were discussed with Jeff Seiter, and a mutually agreeable date for the response is within 30 days from the date of this letter. If you have any questions, please contact me at 301-415-1045 or e-mail [nathaniel.ferrer@nrc.gov](mailto:nathaniel.ferrer@nrc.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "N. Ferrer", with a long horizontal line extending to the right.

Nathaniel Ferrer, Project Manager  
Projects Branch 1  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket No. 50-416

Enclosure:  
Requests for Additional  
Information

cc w/encl: Listserv

GRAND GULF NUCLEAR STATION  
LICENSE RENEWAL APPLICATION  
REQUESTS FOR ADDITIONAL INFORMATION SET 19

**RAI 2.3.3.12-1**

NUREG-0831, "Safety Evaluation Related to the Operation of Grand Gulf Nuclear Station, Units 1 and 2," Section 9.5.1.1, "Water Supply System," dated September 1981, discussed the radwaste building water supply system. The staff notes that license renewal application (LRA) boundary drawing LRA-M-0035G, shows the radwaste building fire water system as not within the scope of license renewal.

Verify whether the radwaste building fire water system is in the scope of license renewal in accordance with 10 CFR 54.4(a) and subject to an aging management review (AMR) in accordance with 10 CFR 54.21(a)(1). If the system is excluded from the scope of license renewal and not subject to an AMR, the staff requests that the applicant provide justification for the exclusion.

**RAI 2.3.3.12-2**

The following LRA boundary drawing shows the following fire protection systems/components as not within the scope of license renewal:

<u>LRA Drawing</u>	<u>Systems/Components</u>	<u>Location</u>
LRA-M-0035L	Fire water suppression systems associated with Emergency Safety Features Transformers, ESF11 and ESF21	H3

The staff requests that the applicant verify whether the fire protection systems/components listed above are in the scope of license renewal in accordance with 10 CFR 54.4(a) and whether they are subject to an AMR in accordance with 10 CFR 54.21(a)(1). If they are excluded from the scope of license renewal and are not subject to an AMR, the staff requests that the applicant provide justification for the exclusion.

**RAI 2.3.3.12-3**

LRA Tables 2.3.3-12 and 3.3.2-12 do not include the following fire protection components:

- fire hose connections, and hose racks
- pipe supports, hangers, and couplings
- yard fire hydrants
- water sprinklers and hose standpipe
- floor drains for fire water
- fire water systems associated with standby gas treatment system charcoal filters and containment exhaust system charcoal filters
- fire water supply filter housings
- dikes and curbs for oil spill confinement

ENCLOSURE

Verify whether the fire protection components listed above are in the scope of license renewal in accordance with 10 CFR 54.4(a) and whether they are subject to an AMR in accordance with 10 CFR 54.21(a)(1). If they are excluded from the scope of license renewal and are not subject to an AMR, the staff requests that the applicant provide justification for the exclusion.

**RAI 2.3.3.13-1**

The following LRA boundary drawings show the following fire protection systems/components as not within the scope of license renewal:

<u>LRA Drawing</u>	<u>Systems/Components</u>	<u>Location</u>
LRA-M-0035E	Pressure relief valves, piping, and components associated with carbon dioxide (CO <sub>2</sub> ) fire suppression system	G3
LRA-M-0035F	Halon 1301 fire suppression system in Division III Switchgear Room Emergency Remote Shutdown Panel Room OC 405 Division I Switchgear Room Control Cabinet Room Room OC 406 Room OC 705	C4 E4 G4 A6 F6 B8 F8

Verify whether the fire protection systems/components listed above are in the scope of license renewal in accordance with 10 CFR 54.4(a) and whether they are subject to an AMR in accordance with 10 CFR 54.21(a)(1). If they are excluded from the scope of license renewal and are not subject to an AMR, the staff requests that the applicant provide justification for the exclusion.

**RAI 2.5-1**

There has been operating experience regarding the failure of cable tie-wraps caused by the age related brittleness of the plastic material. These cable tie-wraps would be considered long-lived passive components depending on whether they have a credited design function. In LRA Section 2.5, the electrical commodity groups subject to aging management review are described. Explain how Grand Gulf manages the aging of cable tie-wraps if they are credited in the plant design basis. In addition, justify why the cable tie-wraps are not included within the scope of license renewal.

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GRAND GULF NUCLEAR STATION, LICENSE RENEWAL APPLICATION

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Sincerely,

**/RA/**

Nathaniel Ferrer, Project Manager  
Projects Branch 1  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket No. 50-416

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