



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

May 14, 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 14

**RAI 2.3.3.19-1**

LRA Section 2.1.1.2.2(1) indicates that nonsafety-related SSCs attached to safety-related SSCs are within the scope of license renewal for 10 CFR 54.4(a)(2) up to the first seismic anchor past the safety-related/nonsafety-related interface. On the following makeup water treatment system license renewal boundary drawings, the staff could not locate seismic anchors on the 10 CFR 54.4(a)(2) nonsafety-related lines connected to safety-related lines:

<b>License Renewal Application Drawing Number &amp; Location</b>	<b>10 CFR 54.4(a)(2) Pipe Line(s) or Identifier</b>
LRA-M-0033B, location E-2	2"-JCD-36 upstream of valve Q1P21F017-A
LRA-M-0033B, location E-2	2"-JCD-33 downstream of valve Q1P21F018-B
LRA-M-0033B, location F-2	4"-JCD-30 downstream of valve Q1P21F024

Provide additional information to locate the seismic anchors or anchored components between the safety-related/nonsafety-related interface and the end of the 10 CFR 54.4(a)(2) scoping boundary.

**RAI 2.3.3.19-2**

Auxiliary steam system license renewal boundary drawing LRA-M-0036C, location D-6, shows line 1"-HBD-1108 I-"E" as within the scope of license renewal for 10 CFR 54.4(a)(2). The drawing also shows a portion of the connecting CRW drain line (1-1/2" HBD-1108 I-"E" line) as within the scope of license renewal for 10 CFR 54.4(a)(2). However, there is no separation (i.e., valve) between the in-scope portion of this CRW drain line and the out-of-scope portion of the auxiliary steam system.

Provide additional information to clarify the scoping classification of this pipe section.

**RAI 2.3.3.19-3**

LRA Section 2.1.1.2.2(1) states that nonsafety-related SSCs attached to safety-related SSCs are within the scope of license renewal for 10 CFR 54.4(a)(2) up to the first seismic anchor past the safety-related/nonsafety-related interface. On reactor water cleanup system license renewal boundary drawing LRA-M-1080B, location G-4, the staff could not locate a seismic anchor on the nonsafety-related piping downstream of safety related line 4"-HBC-355, where the pipe leaves the auxiliary building.

Provide additional information on the location of the seismic anchors or anchored components between the safety-related/nonsafety-related interface and the end of the 10 CFR 54.4(a)(2) scoping boundary.

ENCLOSURE

**RAI 2.3.3.19-4**

LRA Section 2.1.1.2.2(1) states that nonsafety-related SSCs attached to safety-related SSCs are within the scope of license renewal for 10 CFR 54.4(a)(2) up to the first seismic anchor past the safety-related/nonsafety-related interface. On domestic water system license renewal boundary drawing LRA-M-0034B, location F-3, the staff could not locate the seismic anchor on the nonsafety-related 3"-HCD-439 line connected to safety-related line 3"-HCC-65.

Provide additional information on the location of the seismic anchors or anchored components between the safety-related/nonsafety-related interface and the end of the 10 CFR 54.4(a)(2) scoping boundary.

**RAI 2.3.3.19-5**

The containment leak rate test system license renewal boundary drawing LRA-M-1072F, location B-3 and B-4, shows the after cooler and refrigerated air dryer as not within the scope of license renewal. However, the lines connecting to these two components are shown as in scope for 10 CFR 54.4(a)(2).

Provide additional information to clarify the scoping classification of the after cooler and refrigerated air dryer.

**RAI 2.3.3.19-6**

LRA Section 2.1.1.2.2(1) states that nonsafety-related SSCs attached to safety-related SSCs are within the scope of license renewal for 10 CFR 54.4(a)(2) up to the first seismic anchor past the safety-related/nonsafety-related interface. On containment leak rate test system license renewal boundary drawing LRA-M-1111A, locations E-7, D-7 and C-7, the staff could not locate the seismic anchors on the nonsafety-related lines connected to safety-related lines 1"-HCB-36, 1"-HCB-37, and 1"-HCB-38.

Provide additional information on the location of the seismic anchors or anchored components between the safety-related/nonsafety-related interface and the end of the 10 CFR 54.4(a)(2) scoping boundary.

**RAI 2.3.3.19-7**

LRA Section 2.1.1.2.2(1) states that nonsafety-related SSCs attached to safety-related SSCs are within the scope of license renewal for 10 CFR 54.4(a)(2) up to the first seismic anchor past the safety-related/nonsafety-related interface. On process sampling system license renewal boundary drawing LRA-M-1069 the staff could not locate seismic anchors on the 10 CFR 54.4(a)(2) nonsafety-related line between the safety-related/nonsafety-related interface at location H-8 and the end of the 10 CFR 54.4(a)(2) scoping boundary at valve SV-F572, location H-3.

Provide additional information on the location of the seismic anchors or anchored components between the safety-related/nonsafety-related interface and the end of the 10 CFR 54.4(a)(2) scoping boundary.

**RAI 2.3.3.19-8**

The process sampling system license renewal boundary drawing LRA-M-1069D shows the various sampling lines are within the scope of license renewal for 10 CFR 54.4(a)(2). However the license renewal boundary of these lines, at locations B/C-2 and H-3, is shown to end at valves F026 and F031. It is not clear that the piping no longer has the potential to impact safety-related components beyond valves F026 and F031.

Provide additional information to clarify the extent of the license renewal boundary.

**RAI 2.3.3.19-9**

The process sampling system license renewal boundary drawing LRA-M-1069B shows sampling lines are within the scope of license renewal for 10 CFR 54.4(a)(2). The piping sections below are connected to in-scope sampling lines but are not shown as within the scope of license renewal.

<b>Drawing Number &amp; Location</b>	<b>Continuation Issue</b>
LRA-M-1069B, location B-2	Drip line from valve FA14.
LRA-M-1069B, location B-3	Drip line from valve FA12.
LRA-M-1069B, location B-4	Drip line from valve FA10.
LRA-M-1069B, location B-5/6	Drip line from valve FA08.
LRA-M-1069B, location B-6/7	Drip line from valve FA06.
LRA-M-1069B, location B-7/8	Drip line from valve FA04.
LRA-M-1069B, location E-2	Drip line from valve F981.
LRA-M-1069B, location E-3	Drip line from valve F979.
LRA-M-1069B, location E-4	Drip line from valve F977.
LRA-M-1069B, location E-5	Drip line from valve F974.
LRA-M-1069B, location E-5/6	Drip line from valve F972.

Provide additional information to clarify the extent of the license renewal boundary.

**RAI 2.3.3.19-10**

The turbine building cooling water system license renewal boundary drawing LRA-M-1044A, location F-6, shows line 1"-JBD-1342 to be within the scope of license renewal for 10 CFR 54.4(a)(2) with continuation to drawing LRA-M-1062C (location D-1). However, the continuation of this line on drawing LRA-M-1062C is shown as not within the scope of license renewal.

Provide additional information to clarify the scoping classification of this pipe section.

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Sincerely,

/RA/

Nathaniel Ferrer, Project Manager  
Projects Branch 1  
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Docket No. 50-416

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