

November 24, 2008

Mr. Thomas L. Williamson  
Manager, GGNS COLA Project  
Entergy Nuclear  
1340 Echelon Parkway  
Jackson, MS 39213

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 22 RELATED TO  
SRP SECTION 9.5.4 FOR THE GRAND GULF COMBINED LICENSE  
APPLICATION

Dear Mr. Williamson:

By letter dated February 27, 2008, Entergy Operations Incorporated (EOI) submitted for approval a combined license application pursuant to 10 CFR Part 52. The U.S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed application.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter. To support the review schedule, you are requested to respond within 30 days of the date of this letter. If changes are needed to the safety analysis report, the staff requests that the RAI response include the proposed wording changes.

If you have any questions or comments concerning this matter, I can be reached at 301-415-2890 or by e-mail at [Andrea.Johnson@nrc.gov](mailto:Andrea.Johnson@nrc.gov).

Sincerely,

***/RA J. Hale for:/***

Andrea M. Johnson, Project Manager  
ESBWR/ABWR Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

Docket No. 052-0024

Enclosure:  
Request for Additional Information

November 24, 2008

Mr. Thomas L. Williamson  
Manager, GGNS COLA Project  
Entergy Nuclear  
1340 Echelon Parkway  
Jackson, MS 39213

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Sincerely,  
*/RA J. Hale for:/*

Andrea M. Johnson, Project Manager  
ESBWR/ABWR Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

Docket No. 052-0024  
Enclosure:  
Request for Additional Information  
Distribution:  
PUBLIC  
MTonacci, NRO  
BAbeywickrama, NRO  
AJohnson, NRO  
GMakar, NRO

AHowe, NRO  
SBrock, OGC  
NRO\_DNRL\_NGE2  
NRO\_DNRL\_NGE1

ADAMS Accession No. ML083260625

NRO-002

OFFICE	CIB2/TR	CIB2/BC	NGE1/PM	OGC	NGE1/L-PM
NAME	GMakar	AHowe	MTonacci	MCarpentier	MTonacci
DATE	11/12/08	11/12/08	11/13/08	11/13/08	11/20/08

\*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

Grand Gulf, Unit 3 COLA  
Entergy Operations, Inc.  
Docket No. 52-024

SRP Section: 09.05.04 - Emergency Diesel Engine Fuel Oil Storage and Transfer System  
Application Section: 9.5

QUESTIONS for Component Integrity, Performance, and Testing Branch 2 (ESBWR/ABWR Projects)  
(CIB2)

09.05.04-2

Please discuss your plans to modify the proposed Grand Gulf Unit 3 FSAR to clarify the internal and external corrosion protection methods for underground portions of the diesel generator fuel oil storage and transfer systems, and to identify the industry standards that will be applied to the corrosion protection systems. GGNS COL 9.5.4-2-A states that buried carbon steel piping for the diesel fuel oil transfer system will have a waterproof protected coating for external corrosion control. It does not identify the corrosion control system for the internal surface of the piping or provide the industry standards that will be applied to these corrosion control methods. The ESBWR DCD and Grand Gulf COLA state that SRP Section 9.5.4 and RG 1.137 do not apply. However, because they are RTNSS Criterion B and C systems, availability of standby and ancillary diesel generators is required according to the Availability Controls Manual (ACLCO 3.8.1 and 3.8.2). In addition, the ESBWR DCD (p. 9.5-46) states underground piping portions of the standby DG system will be designed and constructed according to "the latest industry standards for buried pipe including provisions for corrosion protection," but it does not identify the standards to be used.