

September 29, 2008

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 7 RELATED TO  
THE SRP SECTION 09.05.04 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 301-415-6256 or by e-mail at [dennis.galvin@nrc.gov](mailto:dennis.galvin@nrc.gov).

Sincerely,

**/RA/**

Dennis Galvin, Project Manager  
ESBWR/ABWR Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 052-0024

eRAI Tracking No. 1136

Enclosure:  
Request for Additional Information

September 29, 2008

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

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Enclosure:

Request for Additional Information

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\*Approval captured electronically in the electronic RAI system.

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Request for Additional Information  
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: 9.5.4

QUESTION

09.05.04-1

Please discuss how GGNS COL 9.4.5-2-A is consistent with the ESBWR DCD regarding corrosion control for underground portions of the fuel oil transfer system. The DCD states that piping or components subject to corrosion, such as carbon steel piping, will be provided with corrosion protection. The COL application states that the buried section of the piping will be provided with "waterproof protected coating." If "protected" refers here to a cathodic protection (CP) system, discuss your plans to clarify this in the FSAR. If the corrosion protection does not include CP, discuss the basis for concluding that a coating alone will be adequate for corrosion protection. Although the ESBWR is not required to follow the guidance in SRP Section 9.5.4 and associated RG 1.137, which reference CP for underground portions of piping and tanks, industry consensus documents recommend that CP be used with coatings, or at least that the need for CP be assessed. (For example, NACE RP-0169, Section 4.2.1 states, "External corrosion control must be a primary consideration during the design of a piping system. Materials selection and coatings are the first line of defense against external corrosion. Because perfect coatings are not feasible, cathodic protection must be used in conjunction with coatings.")

In addition, discuss whether the corrosion protection is applied to the external or internal surface of the buried pipe and discuss your plans to add this information to the FSAR.