

November 10, 2008

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 21 RELATED TO  
SRP SECTION 09.05.01 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/*

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

Docket Nos. 052-0024

Enclosure:  
Request for Additional Information

November 10, 2008

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

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SRP SECTION 09.05.01 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.

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

Enclosure:  
Request for Additional Information  
Docket Nos. 052-0024

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NRO-002

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DATE	08/27/2008	08/29/2008	10/17/2008	10/20/2008	11/07/08

\*Approval captured electronically in the electronic RAI system.

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Grand Gulf, Unit 3 COLA  
Entergy Operations, Inc.  
Docket No. 52-024  
SRP Section: 09.05.01 - Fire Protection Program  
Application Section: 09.05.01

QUESTIONS for Fire Protection Team (SFPT)

**09.05.01-1**

RG 1.206, C.III.1, Chapter 9, Section C.I.9.5.1.1 identifies that the COL applicant should provide site specific information on the fire water supply system. COLA Sections 9.5.1.4 and 9.2.10.2 identify the Station Water Service (SWS) as providing filtered clarified water for refilling the primary and secondary firewater storage tanks. RG 1.189 Position 3.2.1.(i) states that fire water supplies should be filtered and treated as necessary to prevent or control biofouling or microbiologically induced corrosion of fire water systems. The Applicant needs to specifically include that the SWS filtering and clarification process, for water delivered to the firewater storage tanks, will "prevent or control biofouling or microbiologically induced corrosion (MIC)".

**09.05.01-2**

The Grand Gulf SCOLA has not presented the fire hazards analysis (e.g. tables) or the fire zone drawings for those areas outside the scope of the DCD (e.g. Yard Areas). Instead, the applicant has stated to defer these submittals until 6 months prior to fuel load. The applicant is asked to provide a bounding analysis depicting the current preliminary fire hazards analysis and fire zone drawings for the site specific areas in accordance with RG 1.206, RG 1.189 Position 1.2, and COL Information Items 9A.7-1-A and 9A.7-2-A.

Enclosure