

September 5, 2008

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 01 RELATED TO  
SRP SECTION 19 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 301-415-5787 or by e-mail at [Rocky.Foster@nrc.gov](mailto:Rocky.Foster@nrc.gov).

Sincerely,

**/RA/**

Rocky D. Foster, Project Manager  
ESBWR/ABWR Projects Branch 2  
Division of New Reactor Licensing  
Office of New Reactors

Docket No. 052-0024  
eRAI Tracking No. 998

Enclosure:  
Request for Additional Information

September 5, 2008

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 01 RELATED TO  
SRP SECTION 19 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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Rocky D. Foster, Project Manager  
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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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Grand Gulf, Unit 3 COLA  
Entergy Operations, Inc.  
Docket No. 52-024

SRP Section: 19 - Probabilistic Risk Assessment and Severe Accident Evaluation  
Application Section: 19.5 Conclusions

## QUESTIONS

19-1

The ESBWR Probabilistic Risk Assessment (PRA) (NEDO-33201, Revision 2) does not describe the Grand Gulf yard and service water structure/building fire layout areas and flooding zones since these areas are site specific. In support of meeting the requirement of 10 CFR 52.79(a)(46) pertaining to the plant-specific PRA, the staff requests the applicant provide: 1) description of the fire areas and flooding zones for the Grand Gulf yard and service water structure/building, and 2) description of the impact of these plant-specific fire areas and flooding zones on the PRA results.

19-2

FSAR Section 19.5, in support of meeting the requirement of 10 CFR 52.79(a)(46) pertaining to the plant-specific probabilistic risk assessment (PRA), states the following: "The review of site-specific information and plant-specific design information determined that: 1) the DCD PRA bounds site-specific and plant-specific design parameters and design features, and 2) these parameters and features have no significant impact on the DCD PRA results and insights." The staff requests the applicant justify the FSAR statements by providing the following: 1) describe the criteria used to determine whether or not site-specific and plant-specific design parameters and design features are bounded by the DCD PRA and explain how the criteria were applied in the evaluation, 2) describe the quantitative criteria used to determine whether or not a site-specific or plant-specific design parameter or design feature has a significant impact on the DCD PRA results and insights, and 3) describe each of the site-specific and plant-specific design parameters and design features that were considered in the evaluation and a brief explanation of the technical basis for concluding there is no significant impact on the DCD PRA results and insights.