

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. 25 RELATED TO  
SRP SECTION 12.03-12.04-4 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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SRP SECTION 12.03-12.04-4 FOR THE GRAND GULF COMBINED LICENSE  
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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:  
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MTonacci, NRO  
BAbeywickrama, NRO  
AJohnson, NRO  
KStreit, NRO

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

ADAMS Accession No. ML083260651

NRO-002

|        |          |          |          |             |           |
|--------|----------|----------|----------|-------------|-----------|
| OFFICE | CHPB/TR  | CHPB/BC  | NGE1/PM  | OGC         | NGE1/L-PM |
| NAME   | KStreit  | TFrye    | AJohnson | MCarpentier | MTonacci  |
| DATE   | 10/28/08 | 11/03/08 | 11/03/08 | 11/12/08    | 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: 12.03-12.04 - Radiation Protection Design Features  
Application Section: 12.3

QUESTIONS for Health Physics Branch (CHPB)

12.03-12.04-4

STD Conceptual Design Information for Grand Gulf FSAR Section 1.2.2.12.15, Zinc Injection System, states that a Zinc Injection System will not be utilized at Grand Gulf, Unit 3. One of the benefits of utilizing a Zinc Injection System to inject depleted zinc (DZO) in the feedwater is to suppress cobalt plate-out on reactor building piping. Minimizing the plate-out of radioactive cobalt on reactor building piping can lead to potentially lower dose rates in the vicinity of this piping and result in correspondingly lower doses to personnel in this portion of the plant. Justify your decision to not utilize a Zinc Injection System at Grand Gulf, Unit 3 in light of the requirement in 10 CFR 20.1101(b) which states that the licensee shall use, to the extent practical, procedures and engineering controls based upon sound radiation protection principles to achieve occupational doses that are as low as reasonably achievable (ALARA.).