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CNRO-2008-00026

August 20, 2008

U. S. Nuclear Regulatory Commission
Washington, DC 20555-0001
Attention: Document Control Desk

SUBJECT: Grand Gulf Unit 3 Combined Operating License Application
Responses to Safety (Hydrology) Site Audit Requests for Electronic
Files

Grand Gulf Nuclear Station, Unit 3
Docket No. 52-024

REFERENCE: NRC Memorandum, *Trip Report – June 16 and 17, 2008, Hydrology-
Related Site Visit in support of Grand Gulf Combined License
Application*, dated July 22, 2008

Dear Sir or Madam:

During the week of June 16, 2008, representatives of the NRC Office of New Reactors and supporting contractors conducted an Environmental and Safety Site Audit of the Grand Gulf Nuclear Station (GGNS), Unit 3 combined operating license application (COLA) at Entergy Operations, Inc. (Entergy) headquarters. During the audit, the NRC staff requested various electronic files to aid their review of the application; specifically, COLA Part 2, FSAR Section 2.4, *Hydrologic Engineering* (see the referenced memorandum). The attachment to this letter provides a description of the NRC safety (hydrology) requests for Serial Nos. 3 and 4 of the referenced memorandum, and Entergy's associated response. The enclosure to this letter provides a CD-ROM containing the electronic file requested by the NRC staff.

The file on the enclosed CD-ROM does not fully meet the requirements for electronic submission in NRC guidance document, *Guidance for Electronic Submissions to the NRC*; specifically, the file is not *.pdf formatted. The NRC staff requested the file be submitted in its native format required by the software in which it is utilized to support the staff's analysis; i.e., a ".dwg" file for AutoCAD software.

This letter contains no new commitments.

DOBB
MRO

Should you have any questions, please contact me or Mr. Tom Williamson of my staff. Mr. Williamson may be reached as follows:

Telephone: (601-368-5786)

Mailing Address: 1340 Echelon Parkway
Mail Stop M-ECH-21
Jackson, MS 39213

E-Mail Address: twilli2@entergy.com

I declare under penalty of perjury that the foregoing is true and correct.

Executed on August 20, 2008.

Sincerely,



WKH/ghd

Attachment: Response to NRC Safety (Hydrology) Audit Serial Nos. 3 and 4 Requests for Electronic Files

Enclosure: CD-ROM Containing NRC-Requested Electronic File

cc: Mr. T. A. Burke (ECH) (w/o enclosure)

Mr. S. P. Frantz (Morgan, Lewis & Bockius) (w/o enclosure)

Mr. B. R. Johnson (GE-Hitachi) (w/o enclosure)

Ms. M. Kray (NuStart) (w/o enclosure)

Mr. P. D. Hinnenkamp (ECH) (w/o enclosure)

NRC Project Manager – GGNS COLA

NRC Director – Division of Construction Projects (Region II)

NRC Regional Administrator - Region IV

NRC Resident Inspectors' Office - GGNS

ATTACHMENT

CNRO-2008-00026

**RESPONSE TO NRC SAFETY (HYDROLOGY) SITE AUDIT
SERIAL Nos. 3 AND 4 REQUESTS FOR ELECTRONIC FILES**

**Response to NRC Safety (Hydrology) Audit
Serial Nos. 3 and 4 Requests for Electronic Files**

Audit Topic: Hydrology

NRC Audit Request, Serial #3¹

Provide for review of the HEC-RAS input files.

Staff reviewed Calculation GCALC-019 for drainage of Basin A and Basin B. The applicant discussed stream controls, cross-sections, and the linearity assumption used in the applicant's calculations.

UNRESOLVED: The staff will prepare an RAI requesting the HEC-RAS input files and a topographic map identifying the locations of the cross-section (Figures 9 and 10 from GCALC-019).

NRC Audit Request, Serial #4¹

Provide an SME to discuss the site drainage map.

Staff reviewed Calculation GCALC-020 for site drainage of locally-intense precipitation. Figure 2 of the calculation package provides the drainage area and topography of the site. Additional details of the topography are required in order for staff to complete its review.

UNRESOLVED: The staff will prepare an RAI that requests figures (PDF, Auto-CAD, etc.) that contain final grade topography, basin delineation, building delineations, and flow paths supporting GCALC-020 results.

Entergy Response to Serial Nos. 3 and 4

Entergy provided the HEC-RAS input electronic files requested in Serial #3 to the NRC via Entergy letter CNRO-2008-00022, *Grand Gulf Unit 3 Combined Operating License Application - Responses to NRC Safety (Hydrology) Site Audit Requests for Electronic Files*, dated July 24, 2008.

As noted in the entries above, Entergy provided Calculations NUSTART001-GCALC-019 and NUSTART001-GCALC-020 to the NRC for inspection during the audit. Per discussions subsequently held with Entergy on August 13, 2008 regarding hydrology audit items Serial Nos. 3 and 4, the NRC requested additional files related to the calculation inputs, drainage basins, and site topography to support staff review.

The information requested by the NRC in Serial Nos. 3 and 4 is contained in electronic AutoCAD file "GGNS Drainage Area-Topography_12-17-07.dwg" (30,917 KB). Entergy is providing this file to the NRC on the enclosed CD-ROM. This file was used to create Figures 9 and 10 in NUSTART001-GCALC-019 and the figures in NUSTART001-GCALC-020.

¹ See NRC Memorandum, *Trip Report – June 16 and 17, 2008, Hydrology-Related Site Visit in support of Grand Gulf Combined License Application*, dated July 22, 2008.

ENCLOSURE

CNRO-2008-00026

CD-ROM CONTAINING NRC-REQUESTED ELECTRONIC FILE