

April 30, 2007

Mr. William R. Brian
Vice President of Operations
Grand Gulf Nuclear Station
Entergy Operations, Inc.
P. O. Box 756
Port Gibson, MS 39150

SUBJECT: GRAND GULF NUCLEAR STATION, UNIT 1 - RESPONSE TO GENERIC LETTER 2006-02, "GRID RELIABILITY AND THE IMPACT ON PLANT RISK AND THE OPERABILITY OF OFFSITE POWER" (TAC NO. MD0985)

Dear Mr. Brian:

On February 1, 2006, the U.S. Nuclear Regulatory Commission (NRC) issued Generic Letter (GL) 2006-02, "Grid Reliability and the Impact on Plant Risk and the Operability of Offsite Power" (Agencywide Documents Access and Management System (ADAMS) Accession No. ML060180352), to all holders of operating licenses for nuclear power reactors except those who have permanently ceased operation and have certified that fuel has been removed from the reactor vessel.

GL 2006-02 notified licensees of the NRC staff's need for information in four areas as follows:

- (1) use of protocols between the nuclear power plant (NPP) and the transmission system operator (TSO), independent system operator (ISO), or reliability coordinator/authority (RC/RA) and the use of transmission load flow analysis tools (analysis tools) by TSOs to assist NPPs in monitoring grid conditions to determine the operability of offsite power systems under plant technical specifications (TSs). (The TSO, ISO, or RA/RC is responsible for preserving the reliability of the local transmission system. In this GL, the term TSO is used to denote these entities.);
- (2) use of NPP/TSO protocols and analysis tools by TSOs to assist NPPs in monitoring grid conditions for consideration in maintenance risk assessments;
- (3) offsite power restoration procedures in accordance with Section 2 of NRC Regulatory Guide (RG) 1.155, "Station Blackout"; and
- (4) losses of offsite power caused by grid failures at a frequency equal to or greater than once in 20 site-years in accordance with RG 1.155.

Subsequent to the GL, the NRC issued a Request for Additional Information (RAI) (ADAMS Accession No. ML063380308), regarding the resolution of GL 2006-02 to 63 of 65 holders of

operating licenses for nuclear power reactors. The RAI requested that licensees respond to questions in the following areas:

- (1) Switchyard Minimum Voltage;
- (2) Loss of Real-Time Contingency Analysis (RTCA) Capability;
- (3) Verification of RTCA Predicted Post-Trip Voltage;
- (4) Identification of Applicable Single Contingencies;
- (5) Seasonal Variation in Grid Stress (reliability and Loss-of-offsite power (LOOP) Probability; and
- (6) Interface With Transmission System Operator During Extended Plant Maintenance.

By letter dated April 3, 2006 (ADAMS Accession No. ML060950257), as supplemented by letter dated January 31, 2007 (ADAMS Accession No. ML070320374), you responded to the information request of GL 2006-02 and the subsequent RAI. Based on the information you provided, the staff has concluded that compliance is being maintained with NRC regulatory requirements governing electric power sources and associated personnel training and considers your response to GL 2006-02 complete.

If you have any questions, please contact me 301-415-3308.

Sincerely,

/RA/

Bhalchandra Vaidya, Project Manager
Plant Licensing Branch IV
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-416

cc: See next page

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If you have any questions, please contact me 301-415-3308.

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/RA/

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NAME	BVaidya	JBurkhardt	GWilson	CJackson	THiltz
DATE	4/20/07	4/20/07	4/30/07	4/26/07	4/30/07

Grand Gulf Nuclear Station

cc:

Executive Vice President
& Chief Operating Officer
Entergy Operations, Inc.
P.O. Box 31995
Jackson, MS 39286-1995

Chief
Energy and Transportation Branch
Environmental Compliance and
Enforcement Division
Mississippi Department of Environmental
Quality
P.O. Box 10385
Jackson, MS 39289-0385

President
Claiborne County
Board of Supervisors
P.O. Box 339
Port Gibson, MS 39150

Regional Administrator, Region IV
U.S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-8064

Senior Resident Inspector
U.S. Nuclear Regulatory Commission
P.O. Box 399
Port Gibson, MS 39150

General Plant Manager
Operations
Entergy Operations, Inc.
P.O. Box 756
Port Gibson, MS 39150

Attorney General
Department of Justice
State of Louisiana
P.O. Box 94005
Baton Rouge, LA 70804-9005

State Health Officer
State Board of Health
P.O. Box 139
Jackson, MS 39205

Office of the Governor
State of Mississippi
Jackson, MS 39201

Attorney General
Asst. Attorney General
State of Mississippi
P.O. Box 22947
Jackson, MS 39225-2947

Vice President, Operations Support
Entergy Operations, Inc.
P.O. Box 31995
Jackson, MS 39286-1995

Director
Nuclear Safety Assurance
Entergy Operations, Inc.
P.O. Box 756
Port Gibson, MS 39150

Director
Nuclear Safety & Licensing
Entergy Operations, Inc.
1340 Echelon Parkway
Jackson, MS 39213-8298

Manager, Licensing
Entergy Operations, Inc.
P.O. Box 756
Port Gibson, MS 39150

Richard Penrod, Senior Environmental
Scientist/State Liaison Officer
Office of Environmental Services
Northwestern State University
Russell Hall, Room 201
Natchitoches, LA 71497

November 2006