



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

July 13, 1992

Cocket No. 50-416

Mr. William T. Cottle
Vice President, Operations GGNS
Entergy Operations, Inc.
Post Office Box 756
Port Gibson, Mississippi 39150

Dear Mr. Cottle:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION (RAI), GRAND GULF NUCLEAR
STATION, UNIT NO. 1 (M82595)

In Licensee Event Report (LER) 90-012-00, dated August 23, 1990, Entergy Operations, Inc. (the licensee), described a design deficiency whereby calculations for the Division III 125 Vdc System could not demonstrate that all components within that division would be provided with adequate voltage to meet the manufacturer's minimum voltage requirements. In a follow-up LER (LER 90-012-01, dated January 31, 1991), the licensee stated that several components in Division I and II 125 Vdc systems as well may not receive adequate voltage after the loss of their battery chargers.

By letter dated January 11, 1991, the licensee submitted a request to change the Technical Specifications (TSs). This change deletes the battery load profiles and minimum voltage specified in TS 4.8.2.1.d.2 for battery service tests. It also revises the Bases to the TS by referencing the battery load profiles in the updated final safety analysis report (UFSAR). By letter dated January 9, 1992, the NRC staff found the proposed changes acceptable on the condition that the licensee includes the minimum service test voltage for the batteries in the plant's UFSAR.

Following a telephone discussion on June 19, 1992, between NRC and representatives of your engineering staff, the NRC staff requires additional information due to concerns about the possibility that components may not receive the manufacturer's minimum operating voltage. The information will be discussed at a working meeting to be scheduled and should be provided in advance to the NRC for review.

- The licensee is requested to provide a list of the components that may not be receiving adequate voltage and their purpose and safety significance.
- The licensee is requested to justify (by class where appropriate) the acceptability of below-minimum operating voltage for the components identified by the voltage drop study in Division I, II and III 125 Vdc systems, and demonstrate that the components will function during the

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plant's design basis event (loss-of-coolant accident with loss of battery chargers for 2 hours). The justification should include discussion of 1) possible effects of low voltage upon the components, 2) damage to related components and systems, and 3) operator actions during the scenario.

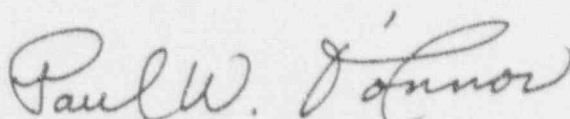
- The licensee is requested to document the adequacy of its dedication programs to ensure that these components will perform their required functions.

The reporting requirements contained in this letter affect fewer than ten respondents; therefore, Office of Management and Budget clearance is not required under Public Law 96-511.

We request your response to this RAI within 60 days of receipt of this letter to enable the staff to complete its review in a timely manner.

The agenda and date for the meeting at which this information will be presented should be established by contacting Paul W. O'Connor at (301) 504-1307.

Sincerely,



Paul W. O'Connor, Senior Project Manager
Project Directorate IV-1
Division of Reactor Projects - III/IV/V
Office of Nuclear Reactor Regulation

cc: See next page

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Paul W. O'Connor, Senior Project Manager
Project Directorate IV-1
Division of Reactor Projects - III/IV/V
Office of Nuclear Reactor Regulation

cc: See next page

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Docket File	NRC & Local PDRs	PD4-1 Reading
S. Little	M. Virgilio	B. Boger
J. Larkins	PD4-1 Plant File	P. O'Connor
ACRS(10)	MPSiemien, OGC	L. Reyes, RII
M. Javery	FRosa	

OFC	LA:PD4-1	I:PD4-1	SELB ¹⁵² 748	PM:PD4-1 ¹⁵²	D:PD4-1
NAME	S Little	M Javery	FRosa	PO'Connor	J Larkins
DATE	7/7/92	7/7/92	7/10/92	7/13/92	7/15/92

Mr. W. T. Cottle
Grand Gulf Nuclear Station

Entergy Operations, Inc.

cc:

Mr. Donald C. Hintz, President
and Chief Operating Officer
Entergy Operations, Inc.
P. O. 31995
Jackson, Mississippi 39286-1995

Mr. C. R. Hutchinson
GGNS General Manager
Entergy Operations, Inc.
P. O. Box 756
Port Gibson, Mississippi 39150

Robert B. McGehee, Esquire
Wise, Carter, Child & Carney
P. O. Box 651
Jackson, Mississippi 39205

The Honorable William J. Guste, Jr.
Attorney General
Department of Justice
State of Louisiana
P. O. Box 94005
Baton Rouge, Louisiana 70804-9005

Nicholas S. Reynolds, Esquire
Winston & Strawn
1400 L Street, N.W. - 12th Floor
Washington, D.C. 20005-3502

Alton B. Cobb, M.D.
State Health Officer
State Board of Health
P. O. Box 1700
Jackson, Mississippi 39205

Mr. Jack McMillan, Director
Division of Solid Waste Management
Mississippi Department of Natural
Resources
P. O. Box 10385
Jackson, Mississippi 39209

Office of the Governor
State of Mississippi
Jackson, Mississippi 39201

President,
Claiborne County Board of Supervisors
Port Gibson, Mississippi 39150

Mike Morre, Attorney General
Frank Spencer, Asst. Attorney General
State of Mississippi
Post Office Box 22947
Jackson, Mississippi 39225

Regional Administrator, Region II
U.S. Nuclear Regulatory Commission
101 Marietta St., suite 2900
Atlanta, Georgia 30323

Mr. John P. McGaha
Vice President, Operations Support
Entergy Operations, Inc.
P.O. Box 31995
Jackson, Mississippi 39286-1995

Mr. Michael J. Meisner
Director, Nuclear Licensing
Entergy Operations, Inc.
P. O. Box 756
Port Gibson, Mississippi 39150

Mr. Johnny Mathis
Senior Resident Inspector
U.S. Nuclear Regulatory Commission
Route 2, Box 399
Port Gibson, Mississippi 39150