



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

January 6, 2010

Vice President, Operations
Entergy Operations, Inc.
Grand Gulf Nuclear Station
P.O. Box 756
Port Gibson, MS 39150

SUBJECT: GRAND GULF NUCLEAR STATION, UNIT 1 – REQUEST FOR ADDITIONAL INFORMATION RE: RESPONSE TO GENERIC LETTER 2008-01, "MANAGING GAS ACCUMULATION IN EMERGENCY CORE COOLING, DECAY HEAT REMOVAL, AND CONTAINMENT SPRAY SYSTEMS" (TAC NO. MD7831)

Dear Sir or Madam:

By letter dated October 13, 2008, as supplemented by letter dated November 20, 2008, Entergy Operations, Inc. (Entergy, the licensee), provided a 9-month response for Grand Gulf Nuclear Station, Unit 1, to U.S. Nuclear Regulatory Commission (NRC) Generic Letter 2008-01, "Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems."

The NRC staff has reviewed the information provided by Entergy and determined that additional information is required in order to conclude that the licensee has acceptably demonstrated "that the subject systems are in compliance with the current licensing and design bases and applicable regulatory requirements, and that suitable design, operational, and testing control measures are in place for maintaining this compliance," as stated in Generic Letter 2008-01. The enclosed questions were provided to Mr. M. Larson of your staff on January 4, 2010. Please provide a response to the questions by February 22, 2010.

The NRC staff considers that timely responses to requests for additional information help ensure sufficient time is available for NRC staff review and contribute toward the NRC's goal of

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efficient and effective use of NRC staff resources. If circumstances result in the need to revise the requested response date, please contact me at 301-415-2296 or via e-mail at fred.lyon@nrc.gov.

Sincerely,

A handwritten signature in black ink that reads "CF Lyon". The letters are cursive and somewhat stylized.

Carl. F. Lyon, Project Manager
Plant Licensing Branch IV
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-416

Enclosure:
Request for Additional Information

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REQUEST FOR ADDITIONAL INFORMATION

RESPONSE TO GENERIC LETTER 2008-01

GRAND GULF NUCLEAR STATION, UNIT 1

DOCKET NO. 50-416

The U.S. Nuclear Regulatory Commission (NRC) staff has reviewed the information provided by Entergy Operations, Inc. (the licensee), for Grand Gulf Nuclear Station, Unit 1 (GGNS) in its letter dated October 13, 2008, as supplemented by letter dated November 20, 2008, and determined that additional information is necessary to conclude that the licensee has acceptably demonstrated "that the subject systems are in compliance with the current licensing and design bases and applicable regulatory requirements, and that suitable design, operational, and testing control measures are in place for maintaining this compliance," as stated in NRC Generic Letter (GL) 2008-01.

Guidance on NRC staff expectations is provided by Reference 1, which is generally consistent with the Nuclear Energy Institute (NEI) guidance provided to industry in Reference 2, as clarified in later NEI communications. The NRC staff recommends that the licensee consult Reference 1 when responding to the following questions:

1. On page 8 of Attachment 1 of Reference 3, the licensee stated, "Surveillance test procedures for HPSC [high pressure core spray], LPCS [low pressure core spray], and RHR [residual heat removal] systems need to include specific acceptance criteria and actions to be taken if voids are detected, thereby making them consistent with the LPCI [low pressure coolant injection]/RHR monthly functional test procedure. Required actions will initiate the means for quantifying and trending the amount of gas present and a process for determining possible sources of gas accumulation."

The NRC staff requests that the licensee expand on the statements made above by providing the following additional information:

- a) Describe the specific acceptance criteria that need to be included for the subject systems.
- b) Describe the means used for quantifying and trending the amount of gas present in the subject systems.
- c) Discuss how amounts of gas found in the subject systems are used to adjust the surveillance intervals for the systems, when it is warranted.

REFERENCES:

1. Ruland, William H., U.S. Nuclear Regulatory Commission, letter to James H. Riley, Nuclear Energy Institute, "Preliminary Assessment of Responses to Generic Letter 2008-01, 'Managing Gas Accumulation in Emergency Core Cooling, Decay Heat

Enclosure

Removal, and Containment Spray Systems,' and Future NRC Staff Review Plans," May 28, 2009 (ADAMS Accession No. ML091390637).

2. Riley, James H., Nuclear Energy Institute, letter to Administrative Points of Contact, "Generic Letter (GL) 2008-01, 'Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Contain Spray Systems' Evaluation and 3 Month Response Template," Enclosure 2, "Generic Letter 2008-01 Response Guidance," March 20, 2008.
3. Letter from Krupa, Michael A. (Entergy) to NRC, "Nine-Month Response to NRC Generic Letter 2008-01, "Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems," October 13, 2008.

efficient and effective use of NRC staff resources. If circumstances result in the need to revise the requested response date, please contact me at 301-415-2296 or via e-mail at fred.lyon@nrc.gov.

Sincerely,

/RA/

Carl. F. Lyon, Project Manager
Plant Licensing Branch IV
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

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*memo dated

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