



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION IV
612 EAST LAMAR BLVD, SUITE 400
ARLINGTON, TEXAS 76011-4125

March 28, 2011

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

SUBJECT: GRAND GULF NUCLEAR STATION- NOTIFICATION OF INSPECTION
(INSPECTION REPORT 05000416/2011004) AND REQUEST FOR
INFORMATION

Dear Mr. Douet :

On June 27, 2011, the NRC will begin the on-site portion of the Gas Accumulation Management in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems Temporary Instruction at your Grand Gulf Nuclear Station. These inspections will be performed in accordance with NRC Temporary Instruction (TI) 2515/177.

Experience has shown that this inspection is resource intensive, both for the NRC inspectors and your staff. In order to minimize the impact to your onsite resources and to ensure a productive inspection, we have enclosed a request for documents needed for this inspection. The documents have been divided into two groups.

- The first group lists information necessary for our initial inspection scoping and in-office preparation activities. This information should be separated by information request number, especially if provided electronically (e.g., folder with the information request number). This information should be available to the inspector no later than June 20, 2011. Upon review of these documents, the inspectors will select additional documentation for review upon arrival. By June 23, 2011, the inspector will communicate the initial selected samples.
- The second group of documents requested is needed to support our onsite inspection activities. This set of documents should be available to the inspector on June 27, 2011. It is also requested that corrective action documents and responses to questions developed during the inspection be provided to the inspector as the documents are generated.

We have discussed the schedule for these inspection activities with your staff and understand that our regulatory contact for this inspection will be Mike Larson of your licensing organization. If there are any questions about this inspection or the material requested, please contact the inspector, Wayne Sifre, at 817-860-8193 or by email at wayne.sifre@nrc.gov.

This letter does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). Existing information collection requirements were approved by the Office of Management and Budget, control number 3150-0011. The NRC may not conduct or sponsor, and a person is not required to respond to,

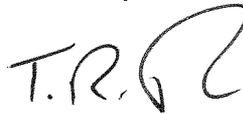
Entergy Operations, Inc.

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a request for information or an information collection requirement unless the requesting document displays a currently valid Office of Management and Budget control number.

In accordance with Code of Federal Regulations, Title 10, Part 2.390 of the NRC's Rules of Practice, a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

A handwritten signature in black ink, appearing to read 'T.R.F.' followed by a stylized flourish.

Thomas R. Farnholtz, Chief
Engineering Branch 1
Division of Reactor Safety

Docket: 50-416
License: NPF-29

Enclosure: MANAGEMENT OF GAS ACCUMULATION IN EMERGENCY CORE COOLING,
DECAY HEAT REMOVAL, AND CONTAINMENT SPRAY SYSTEMS
TEMPORARY INSTRUCTION DOCUMENT REQUEST

cc w/encl:
Distribution via ListServ for Grand Gulf Nuclear Station

**MANAGEMENT OF GAS ACCUMULATION IN EMERGENCY CORE COOLING, DECAY
HEAT REMOVAL, AND CONTAINMENT SPRAY SYSTEMS TEMPORARY INSPECTION
DOCUMENT REQUEST**

Inspection Report: 05000416/2011004

Inspection Dates: June 27-July 1, 2011

Inspection Procedure: TI 2515/177, "Management of Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems"

Inspector: Wayne C. Sifre, Senior Reactor Inspector
(817) 860-8193
Wayne.sifre@nrc.gov

The following information should be sent to the Region IV office in hard copy or electronic format (ims.certrec.com or compact disc, preferred), in care of Wayne Sifre, to facilitate the selection of specific items that will be reviewed during the onsite inspection week. The inspector will select specific items from the information requested below and then request from your staff additional documents needed during the onsite inspection weeks. Also, we request that you categorize the documents in your response with the numbered list below. Please provide requested documentation electronically if possible. If requested documents are large and only hard copy formats are available, please inform the inspector(s), and provide subject documentation during the first day of the onsite inspection. If you have any questions regarding this information request, please call the inspector as soon as possible.

I. Information Requested By June 20, 2011

1. List of corrective action program documents (with a short description) associated with GL 2008-01, voids in piping, and pressure transients for the previous three years.
2. List of changes (with a short description and tracking number) to the final safety evaluation report (FSAR), technical specifications, technical specification bases, and technical requirement manual associated with the resolution of GL 2008-01.
3. List of calculations associated with GL 2008-01, including calculations that have been changed or created in response to GL 2008-01 (with a short description of the calculation and the change).
4. List (with a short description) of gas intrusion mechanisms that apply to the plant and the affected system locations (e.g. identify the source, conditions, and expected void locations).
5. List of the suction piping sections identified as susceptible to gas accumulation (the list should identify the corresponding system).

MANAGEMENT OF GAS ACCUMULATION IN EMERGENCY CORE COOLING, DECAY HEAT REMOVAL, AND CONTAINMENT SPRAY SYSTEMS TEMPORARY INSPECTION DOCUMENT REQUEST

6. List of the discharge piping sections identified as susceptible to gas accumulation (the list should identify the corresponding system).
7. Copies of isometric drawings of the High Pressure Core Spray, Low Pressure Core Spray, and Residual Heat Removal systems (hard-copies are preferred).
8. Copies of piping and instrumentation diagrams (P&IDs) of the High Pressure Core Spray, Low Pressure Core Spray, and Residual Heat Removal systems (hard-copies are preferred).
9. Copies of program documents and procedures developed to implement the resolution of GL 2008-01.
10. List of actions that were completed in response to GL 2008-01.
11. Copies of the modification packages for hardware modifications as part of the resolution of GL 2008-01.
12. Design basis documents of the High Pressure Core Spray, Low Pressure Core Spray, and Residual Heat Removal systems.
13. Design basis documents of keep-full systems of the High Pressure Core Spray, Low Pressure Core Spray, and Residual Heat Removal systems.
14. System walkdown reports associated with the resolution of GL 2008-01.
15. If applicable, provide a list of inaccessible locations where plant walkdowns of the High Pressure Core Spray, Low Pressure Core Spray, and Residual Heat Removal systems have not been completed. Include an explanation of why each area is considered inaccessible.
16. Copies of surveillance procedures associated with the resolution of GL 2008-01 and the results of the last two surveillances for the High Pressure Core Spray, Low Pressure Core Spray, and Residual Heat Removal systems.
17. Copies of procedures used for detecting and determining void volumes.
18. Copies of procedures used for filling and venting.
19. Copies of trends of periodic venting results.
20. Copies of the engineering evaluations performed for all identified voids.

**MANAGEMENT OF GAS ACCUMULATION IN EMERGENCY CORE COOLING, DECAY
HEAT REMOVAL, AND CONTAINMENT SPRAY SYSTEMS TEMPORARY INSPECTION
DOCUMENT REQUEST**

21. Basis for the void acceptance criteria (e.g. calculation). If applicable, provide the justification for any deviation from the void acceptance criteria established by the Office of Nuclear Reactor Regulation (NRR).
22. Copy of any void transport analyses.
23. Copy of vortexing calculations associated with systems under the scope of GL 2008-01.
24. Copies of self-assessments associated with the implementation of the GL 2008-01 program.

II. Information Requested By June 27, 2011

25. Copies of the selected corrective action program documents.
26. Copies of the selected licensing and design basis document changes.
27. Copies of the selected calculations.
28. Copies of training documents that ensure that personnel are aware of gas-related concerns.
29. Copies of corrective action program implementing procedures.
30. Electronic copies of the current technical specifications, technical specification bases, final safety analysis report, and technical report manual.

Inspector Contact Information:
US NRC Region IV
Attn: Wayne Sifre
612 E. Lamar Blvd., Suite 400
Arlington, TX 76011-4125