



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
612 EAST LAMAR BLVD, SUITE 400  
ARLINGTON, TEXAS 76011-4125

September 7, 2011

Mr. Eric W. Olson  
Site Vice President  
Entergy Operations, Inc.  
River Bend Station  
5485 US Highway 61N  
St. Francisville, LA 70775

SUBJECT: RIVER BEND STATION- NOTIFICATION OF INSPECTION (INSPECTION REPORT 05000458/2011005) AND REQUEST FOR INFORMATION

Dear Mr. Olson:

On November 14, 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 River Bend Station. This inspection 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 on-site 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 October 31, 2011. Upon review of these documents, the inspectors will select additional documentation for review upon arrival. By November 3, 2011, the inspector will communicate the initial selected samples.
- The second group of documents requested is needed to support our on-site inspection activities. This set of documents should be available to the inspector on November 14, 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 Danny Williamson of your licensing organization. If there are any questions about this inspection or the material requested, please contact the inspector, Matt Young, at 817-276-6545 or by email at [matt.young@nrc.gov](mailto:matt.young@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, a request for information or an information collection requirement unless the

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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,

*/RA/*

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

Docket: 50-458  
License: NPF-47

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 River Bend Station

Electronic distribution by RIV:

- Regional Administrator ([Elmo.Collins@nrc.gov](mailto:Elmo.Collins@nrc.gov) )
- Deputy Regional Administrator ([Art.Howell@nrc.gov](mailto:Art.Howell@nrc.gov) )
- DRP Director ([Kriss.Kennedy@nrc.gov](mailto:Kriss.Kennedy@nrc.gov) )
- Acting DRP Deputy Director ([Jeff.Clark@nrc.gov](mailto:Jeff.Clark@nrc.gov) )
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- Regional Counsel ([Karla.Fuller@nrc.gov](mailto:Karla.Fuller@nrc.gov) )
- Congressional Affairs Officer ([Jenny.Weil@nrc.gov](mailto:Jenny.Weil@nrc.gov) )
- OEMail Resource

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ADAMS	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> SUNSI Review Complete	Reviewer Initials: MRY
Category B.1	<input checked="" type="checkbox"/> Publicly Available		<input checked="" type="checkbox"/> Non-sensitive	
Category A	<input type="checkbox"/> Non-publicly Available		<input type="checkbox"/> Sensitive	
KEYWORD: A.X		Sensitive - XXX		
RIV:DRS\RI				C:EB1
M. Young				T. Farnholtz
/RA/				/RA/
9/7/11				9/7/11

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

**Inspection Report:** 05000458/2011005

**Inspection Dates:** November 14-17, 2011

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

**Inspectors:** Matthew Young, Reactor Inspector  
(817) 276-6545  
[matt.young@nrc.gov](mailto:matt.young@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 Matt Young, to facilitate the selection of specific items that will be reviewed during the on-site inspection week. The inspector will select specific items from the information requested below and then request from your staff additional documents needed during the on-site 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 on-site inspection. If you have any questions regarding this information request, please call the inspector as soon as possible.

**I. Information Requested By October 31, 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 analysis report (FSAR), technical specifications, technical specification bases, and technical requirements 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). Also include a short description of how each gas intrusion mechanism has been addressed (eg. plant hardware modification, procedure change).

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

5. List of the suction piping sections identified as susceptible to gas accumulation (the list should identify the corresponding system).
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 plant systems within scope of GL 2008-01 (hard-copies are preferred).
8. Copies of piping and instrumentation diagrams (P&IDs) of the plant systems within scope of GL 2008-01 (hard-copies are preferred). Please highlight any components that were part of hardware modifications installed as part of the resolution of GL 2008-01 and all high point vents that are monitored during void surveillances.
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 plant systems within scope of GL 2008-01.
13. Design basis documents of keep-full systems of the plant systems within scope of GL 2008-01.
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 plant systems within scope of GL 2008-01 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 plant systems within scope of GL 2008-01.
17. Copies of procedures used for filling and venting.
18. Copies of trends of periodic venting results.
19. Copies of the engineering evaluations performed for all identified voids.
20. 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).

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

21. Copies of any void transport analyses.
22. Copies of vortexing calculations associated with systems under the scope of GL 2008-01.
23. Copies of self-assessments associated with the implementation of the GL 2008-01 program.

**II. Information Requested By November 14, 2011**

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

Inspector Contact Information:

US NRC Region IV  
Attn: Matt Young  
612 E. Lamar Blvd., Suite 400  
Arlington, TX 76011-4125