



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
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September 2, 2008

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

SUBJECT: MIDCYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -
GRAND GULF NUCLEAR STATION

Dear Mr. Douet:

On August 7, 2008, the NRC staff completed its performance review of Grand Gulf Nuclear Station for the first half of the calendar year 2008 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous 12 months. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only - Security-Related Information" will include the security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter was within the Licensee Response Column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green).

During the first quarter of the assessment cycle, plant performance entered the Regulatory Response Column of the NRC's Action Matrix as a result of a White PI for unplanned scrams per 7000 critical hours. This PI returned to Green in the second quarter of 2008.

On the basis of the White PI, we conducted a supplemental inspection at Grand Gulf Nuclear Station using Inspection Procedure 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area," which was completed on June 12, 2008. This supplemental inspection was conducted to provide assurance that the root and contributing causes for the White PI were understood, to provide assurance that the extent of condition and extent of cause were identified, and to provide assurance that the corrective actions are sufficient to address the root and contributing causes and prevent their recurrence. The supplemental inspection determined that you performed a comprehensive and thorough evaluation in which specific problems were identified, an adequate root cause evaluation was performed, and corrective actions were taken or planned to prevent recurrence.

At the 2007 end-of-cycle assessment, the NRC staff identified a new crosscutting theme in the human performance component of decision making involving the aspect of using conservative input assumptions and opened a substantive crosscutting issue in that area. During the current assessment period, four findings remained affecting the Mitigating Systems and Initiating Events

Cornerstones involved in this aspect. To address the problems in this area, your staff developed an improvement plan in 2007. We determined that your staff appropriately recognized the declining trend in human performance, properly evaluated the declining trend, and implemented specific corrective actions. There have been no new findings in this area in the past 6 months. Based on this, the NRC does not have a concern with the scope of your efforts or progress in addressing this issue. As a result, this substantive crosscutting issue will be closed, and we will continue to monitor the effectiveness of your actions through baseline inspection activities.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through December 31, 2009. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last 9 months of the inspection plan are tentative and may be revised at the end-of-cycle review.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records 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).

If circumstances arise which cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact Geoffrey Miller, at (817) 860-8144 with any questions you may have regarding this letter or the inspection plan.

Sincerely,



Dwight D. Chamberlain, Director
Division of Reactor Projects

Docket: 50-416
License: NPF-29

Enclosure: Grand Gulf Inspection/Activity Plan

cc w/Enclosure:

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Grand Gulf 1

Inspection / Activity Plan
 09/01/2008 - 12/31/2009

| Unit Number | Inspection Activity Title | No. of Staff on Site | Planned Dates Start End | Inspection Type |
|-------------|--|----------------------|-------------------------|-------------------------|
| 1 | EB1-08B - INSERVICE INSPECTION IP 7111108G Inservice Inspection Activities - BWR | 2 | 09/29/2008 10/03/2008 | Baseline Inspections |
| 1 | RP-ORS2 - OCCUPATIONAL RADIATION SAFETY-ACCESS IP 7112101 Access Control to Radiologically Significant Areas | 1 | 09/29/2008 10/03/2008 | Baseline Inspections |
| 1 | IP 7112102 ALARA Planning and Controls | | 09/29/2008 10/03/2008 | Baseline Inspections |
| 1 | IP 71151-OR01 Occupational Exposure Control Effectiveness | | 09/29/2008 10/03/2008 | Baseline Inspections |
| 1 | IP 71151-PR01 RETS/ODCM Radiological Effluent | | 09/29/2008 10/03/2008 | Baseline Inspections |
| 1 | EB1-21 - CDBI IP 7111121 Component Design Bases Inspection | 6 | 02/02/2009 02/06/2009 | Baseline Inspections |
| 1 | IP 7111121 Component Design Bases Inspection | | 02/17/2009 02/27/2009 | Baseline Inspections |
| 1 | EXAM - INITIAL EXAMINATION X02379 GRAND GULF-INITIAL EXAM (08/2008) | 3 | 01/26/2009 01/30/2009 | Not Applicable |
| 1 | X02379 GRAND GULF-INITIAL EXAM (08/2008) | | 03/02/2009 03/07/2009 | Not Applicable |
| 1 | RP-ORS3 - OCCUPATIONAL RADIATION SAFETY - ALARA IP 7112101 Access Control to Radiologically Significant Areas | 1 | 03/16/2009 03/20/2009 | Baseline Inspections |
| 1 | IP 7112102 ALARA Planning and Controls | | 03/16/2009 03/20/2009 | Baseline Inspections |
| 1 | IP 71151 Performance Indicator Verification | | 03/16/2009 03/20/2009 | Baseline Inspections |
| 1 | RP-ORS4 - OCCUPATIONAL RADIATION SAFETY - ACCESS IP 7112101 Access Control to Radiologically Significant Areas | 1 | 06/08/2009 06/12/2009 | Baseline Inspections |
| 1 | IP 7112102 ALARA Planning and Controls | | 06/08/2009 06/12/2009 | Baseline Inspections |
| 1 | IP 71151 Performance Indicator Verification | | 06/08/2009 06/12/2009 | Baseline Inspections |
| 1 | REQVAL - BIENNIAL REQVAL IP 7111111B Licensed Operator Requalification Program | 3 | 07/27/2009 07/31/2009 | Baseline Inspections |
| 1 | RPTEAM - RADIATION SAFETY TEAM INSPECTION IP 2515173 Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative | 5 | 08/17/2009 08/21/2009 | Generic Safety Inspecti |
| 1 | IP 7112103 Radiation Monitoring Instrumentation and Protective Equipment | | 08/17/2009 08/21/2009 | Baseline Inspections |
| 1 | IP 7112201 Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems | | 08/17/2009 08/21/2009 | Baseline Inspections |
| 1 | IP 7112202 Radioactive Material Processing and Transportation | | 08/17/2009 08/21/2009 | Baseline Inspections |
| 1 | IP 7112203 Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program | | 08/17/2009 08/21/2009 | Baseline Inspections |
| 1 | PSB2-52B - BIENNIAL P&R INSPECTION IP 71152B Identification and Resolution of Problems | 6 | 10/26/2009 10/30/2009 | Baseline Inspections |
| 1 | IP 71152B Identification and Resolution of Problems | | 11/16/2009 11/20/2009 | Baseline Inspections |
| 1 | RP-ORS5 - OCCUPATIONAL RADIATION SAFETY IP 7112101 Access Control to Radiologically Significant Areas | 1 | 11/30/2009 12/04/2009 | Baseline Inspections |
| 1 | IP 7112102 ALARA Planning and Controls | | 11/30/2009 12/04/2009 | Baseline Inspections |

This report does not include INPO and OUTAGE activities.
 This report shows only on-site and announced inspection procedures.

| Unit Number | Inspection Activity | Title | No. of Staff on Site | Planned Dates Start End | Inspection Type |
|-------------|---|------------------------------------|----------------------|-------------------------|----------------------|
| 1 | RP-ORS5 - OCCUPATIONAL RADIATION SAFETY IP 71151 | Performance Indicator Verification | 1 | 11/30/2009 12/04/2009 | Baseline Inspections |

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