



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
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ARLINGTON, TEXAS 76011-4125**

March 4, 2009

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

**SUBJECT: ANNUAL ASSESSMENT LETTER - GRAND GULF NUCLEAR STATION
(NRC INSPECTION REPORT 05000416/2009001)**

Dear Mr. Douet:

On February 12, 2009, the NRC staff completed its performance review of Grand Gulf Nuclear Station. Our technical staff reviewed performance indicators for the most recent quarter and inspection results for the period from January 1 through December 31, 2008. 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.

Overall, Grand Gulf Nuclear Station operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter was within the Regulatory Response Column of the NRC's Action Matrix as a result of a White performance indicator for unplanned scrams per 7000 critical hours. This performance indicator initially crossed the Green-White threshold in the first quarter of this assessment period. The NRC completed a supplemental inspection using Inspection Procedure 95001, "Supplemental Inspection for One or Two White inputs in a Strategic Performance Area," on June 12, 2008, and the performance indicator returned to Green in the second quarter of 2008. During the fourth quarter of 2008, it again returned to White as a result of two additional unplanned scrams. The staff commenced an additional supplemental inspection per Inspection Procedure 95001 in February, 2009. This inspection will provide assurance that the root and contributing causes for the White performance indicator are understood, the extent of condition and extent of cause are identified, and that corrective actions are sufficient to address the root and contributing causes and prevent their recurrence.

The staff identified that there were more than three green or safety significant inspection findings for the current 12-month assessment period with documented cross-cutting aspects in the area of human performance, and there is a cross-cutting theme in the aspect of human error prevention techniques (H.4.a) associated with these findings. In evaluating the scope of efforts and progress in addressing the cross-cutting theme, the staff determined that you appropriately recognized the theme and developed and began implementation of a new station performance

improvement plan to address it. Because a reasonable duration of time has not passed for the staff to determine the effectiveness of the performance improvement plan, we have determined that a substantive cross-cutting issue does not exist at this time. We will continue to closely monitor the progress of your corrective actions through the baseline inspection program over the next assessment period.

The enclosed inspection plan details the inspections, less those related to security scheduled through June 30, 2010. 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 nine months of the inspection plan are tentative and may be revised at the mid 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 (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).

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,

/RA/

Dwight D. Chamberlain, Director
Division of Reactor Projects

Docket: 50-416

License: NPF-29

Enclosure:
Grand Gulf Inspection/Activity Plan

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SUNSI Rev Compl.	☒ Yes ☐ No	ADAMS	☒ Yes ☐ No	Reviewer Initials	WCW
Publicly Avail	☒ Yes ☐ No	Sensitive	☐ Yes ☒ No	Sens. Type Initials	WCW
RIV/SPE/DRP/C	SRI:DRP/C	C:DRP/C	D:DRS	D:DRP	
WCWalker	RLSmith	GBMiller	RJCaniano	DDChamberlain	
/RA/	/RA/E-WWalker	/RA/	/RA	/RA/	
2/19/2009	2/19/2009	2/19/2009	2/23/2009	2/23/2009	

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Grand Gulf
Inspection / Activity Plan
03/01/2009 - 06/30/2010

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		EXAM - INITIAL EXAMINATION		4
1	03/02/2009 03/07/2009	X02379	GRAND GULF-INITIAL EXAM (08/2008)	
		95001 - 95001 SUPPLEMENTAL INSPECTION		1
1	02/02/2009 04/03/2009	IP 95001	Supplemental Inspection For One Or Two White Inputs In A Strategic Performance Area	
		RP-ORS4 - OCCUPATIONAL RADIATION SAFETY - ACCESS		1
1	06/08/2009 06/12/2009	IP 7112101	Access Control to Radiologically Significant Areas	
1	06/08/2009 06/12/2009	IP 7112102	ALARA Planning and Controls	
1	06/08/2009 06/12/2009	IP 71151	Performance Indicator Verification	
		REQUAL - BIENNIAL REQUAL		3
1	08/17/2009 08/21/2009	IP 7111111B	Licensed Operator Requalification Program	
		RPTEAM - RADIATION SAFETY TEAM INSPECTION		4
1	08/17/2009 08/21/2009	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	
1	08/17/2009 08/21/2009	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
1	08/17/2009 08/21/2009	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems	
1	08/17/2009 08/21/2009	IP 7112202	Radioactive Material Processing and Transportation	
1	08/17/2009 08/21/2009	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program	
		PSB2-52B - BIENNIAL PI&R INSPECTION		4
1	10/26/2009 10/30/2009	IP 71152B	Identification and Resolution of Problems	
1	11/16/2009 11/20/2009	IP 71152B	Identification and Resolution of Problems	
		RP-ORS5 - OCCUPATIONAL RADIATION SAFETY		1
1	11/30/2009 12/04/2009	IP 7112101	Access Control to Radiologically Significant Areas	
1	11/30/2009 12/04/2009	IP 7112102	ALARA Planning and Controls	
1	11/30/2009 12/04/2009	IP 71151	Performance Indicator Verification	
		EB2-07T - TRIENNIAL HEAT SINK PERFORMANCE		1
1	01/11/2010 01/15/2010	IP 7111107T	Heat Sink Performance	
		EB1-17 - 50.59 AND MODS		3
1	02/01/2010 02/12/2010	IP 7111117	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
		EXAM - INITIAL EXAM		4
1	03/01/2010 03/05/2010	X02440	INITIAL EXAM-GG (04/2010)	
1	04/05/2010 04/05/2010	X02440	INITIAL EXAM-GG (04/2010)	
		EP-1 - BIENNIAL EP PROGRAM INSPECTION		1
1	05/03/2010 05/07/2010	IP 7111402	Alert and Notification System Testing	
1	05/03/2010 05/07/2010	IP 7111403	Emergency Response Organization Augmentation Testing	
1	05/03/2010 05/07/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	05/03/2010 05/07/2010	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	

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

Grand Gulf
Inspection / Activity Plan

03/01/2009 - 06/30/2010

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End				
EP-1 - BIENNIAL EP PROGRAM INSPECTION					
1	05/03/2010	05/07/2010	IP 71151-EP01	Drill/Exercise Performance	1
1	05/03/2010	05/07/2010	IP 71151-EP02	ERO Drill Participation	
1	05/03/2010	05/07/2010	IP 71151-EP03	Alert & Notification System	
EB1 08 - INSERVICE INSPECTION					
1	05/03/2010	05/21/2010	IP 7111108G	Inservice Inspection Activities - BWR	1

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