



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

March 3, 2010

James R. Douet
Vice President Operations
Entergy Operations, Inc.
Grand Gulf Nuclear Station
P.O. Box 756
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**SUBJECT: ANNUAL ASSESSMENT LETTER - GRAND GULF NUCLEAR STATION
(REPORT 05000416/2010001)**

Dear Mr. Douet:

On February 18, 2010, 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, 2009. 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 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, as well as for the second and third quarters, 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 performance indicators indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process baseline inspections at your facility.

While plant performance for the most recent quarter is within the Licensee Response column of the NRC Action Matrix, there was a safety significant performance indicator affecting the first quarter of the assessment period. Plant performance for the first 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. That performance indicator initially crossed the Green-White threshold in the first quarter of 2008. Consistent with the guidance in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program," 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 2008, it again returned to White as a result of two additional unplanned scrams. The staff completed an additional supplemental inspection per Inspection Procedure 95001, in February 2009. That inspection provided assurance that the root and contributing causes for

the White performance indicator were understood, the extent of condition and extent of cause were identified, and that corrective actions were sufficient to address the root and contributing causes and prevent their recurrence. After the first quarter of 2009, the subject performance indicator therefore returned to a level requiring no additional NRC oversight (Green).

The enclosed inspection plan details the inspections, less those related to security scheduled through June 30, 2011. 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 Vincent Gaddy 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

cc w/enclosure:

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File located: R:_Reactors\EOC2009\GG.doc

SUNSI Rev Compl.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	ADAMS	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Reviewer Initials	VGG
Publicly Avail	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sensitive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sens. Type Initials	VGG
C:DRP/	D:DRS	D:DRP			
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/RA/	/RA/	/RA/			
2/26/10	2/26/10	3/1/10			

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Grand Gulf
Inspection / Activity Plan
04/01/2010 - 06/30/2011

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
EXAM - INITIAL EXAM					3
1	06/07/2010	06/11/2010	X02440	INITIAL EXAM-GG (04/2010)	
1	06/28/2010	07/02/2010	X02440	INITIAL EXAM-GG (04/2010)	
RS123 - OCCUPATIONAL RADIATION SAFETY					2
1	05/03/2010	05/07/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	05/03/2010	05/07/2010	IP 71124.02	Occupational ALARA Planning and Controls	
1	05/03/2010	05/07/2010	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	05/03/2010	05/07/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	05/03/2010	05/07/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
PSB2-08G - INSERVICE INSPECTION					2
1	05/07/2010	05/14/2010	IP 7111108G	Inservice Inspection Activities - BWR	
RS45 - RADIATION SAFETY					2
1	08/16/2010	08/20/2010	IP 71124.04	Occupational Dose Assessment	
1	08/16/2010	08/20/2010	IP 71124.05	Radiation Monitoring Instrumentation	
1	08/16/2010	08/20/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	08/16/2010	08/20/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
EP-1 - BIENNIAL EP PROGRAM INSPECTION					1
1	11/15/2010	11/19/2010	IP 7111403	Emergency Response Organization Augmentation Testing	
1	11/15/2010	11/19/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	11/15/2010	11/19/2010	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	11/15/2010	11/19/2010	IP 71151-EP01	Drill/Exercise Performance	
1	11/15/2010	11/19/2010	IP 71151-EP02	ERO Drill Participation	
1	11/15/2010	11/19/2010	IP 71151-EP03	Alert & Notification System	
1	12/06/2010	12/10/2010	IP 7111402	Radiological Environmental Monitoring Program	
EB2-05T - TRIENNIAL FIRE PROTECTION					1
1	04/04/2011	04/09/2011	IP 7111105T	Fire Protection [Triennial]	
1	04/18/2011	04/22/2011	IP 7111105T	Fire Protection [Triennial]	
EP1 - BIENNIAL EP EXERCISE INSPECTION					3
1	06/06/2011	06/10/2011	IP 7111401	Exercise Evaluation	
1	06/06/2011	06/10/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	06/06/2011	06/10/2011	IP 71151-EP01	Drill/Exercise Performance	
1	06/06/2011	06/10/2011	IP 71151-EP02	ERO Drill Participation	
1	06/06/2011	06/10/2011	IP 71151-EP03	Alert & Notification System	

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