UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
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March 3, 2008

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

SUBJECT: ANNUAL ASSESSMENT LETTER - GRAND GULF NUCLEAR STATION
(NRC INSPECTION REPORT 05000416/2008001)

Dear Mr. Brian:

On February 7, 2008, the NRC staff completed its performance review of the Grand Gulf Nuclear Station for the calendar year 2007 assessment cycle. Our technical staff reviewed performance indicators for the most recent quarter and inspection results for the period from January 1 through December 31 2007. 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 at Grand Gulf Nuclear Station 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.

During this assessment period the NRC staff identified a crosscutting theme in the human performance component of decision making involving the aspect of using conservative input assumptions. Eight findings were related to this theme, affecting the Mitigating Systems, Initiating Events, and Occupational Radiation Safety Cornerstones. Examples include; inadequate operability assessments for a degraded switchgear ventilation system, diesel generator jacket water control valve, and residual heat removal heat exchanger; the failure to establish an appropriate frequency for evaluating the radiological hazards associated with a reactor coolant leak; the failure to establish appropriate limitations for performing troubleshooting activities that resulted in an unplanned power reduction. To address problems in this area, your staff developed an improvement plan in 2007; however, it is not clear that the scope of efforts to address the negative trend in decision making has been effective. As a result, a substantive crosscutting issue in Human Performance was identified. This substantive crosscutting issue will remain open until we determine, through implementation of focused baseline inspections, that future corrective actions have resulted in sustained improved performance.

Additionally, in the human performance component of work practices a crosscutting theme in the aspect of human error prevention techniques was identified. Five findings were related to this theme, affecting the Mitigating Systems, Initiating Events, and Occupational Radiation Safety Cornerstones. We determined that your staff appropriately recognized the declining trend, evaluated the declining trend in your corrective action program, and implemented effective corrective actions. Based on this, we have concluded that the scope of your efforts to address this crosscutting theme appears appropriate and we will continue to monitor the effectiveness of your actions through baseline inspection activities.

The enclosed inspection plan details the inspections, except those related to physical protection scheduled through June 30, 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 nine months of the inspection plan are tentative and may be revised at the midcycle 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).

The NRC is currently evaluating the scope and frequency of all baseline inspection procedures. If the results of the evaluation, or any other circumstances, cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me, at (817) 860-8144 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

Michael C. Hay

Michael C. Hay, Chief
Project Branch C
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
Inspection / Activity Plan
03/01/2008 - 06/30/2009

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	EB2-05T	**- TRIENNIAL FIRE PROTECTION**	**6**			
1	IP 7111105T	Fire Protection [Triennial]		03/10/2008	03/14/2008	Baseline Inspections
1	IP 7111105T	Fire Protection [Triennial]		03/31/2008	04/04/2008	Baseline Inspections
1	IP 7111105T	Fire Protection [Triennial]		04/14/2008	04/18/2008	Baseline Inspections
	EB2-07T	**- TRIENNIAL HEAT SINK INSPECTION**	**1**			
1	IP 7111107B	Heat Sink Performance		05/12/2008	05/16/2008	Baseline Inspections
	RP-ORS1	**- OCCUPATIONAL RADIATON SAFETY-ALARA**	**1**			
1	IP 7112101	Access Control to Radiologically Significant Areas		05/12/2008	05/16/2008	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		05/12/2008	05/16/2008	Baseline Inspections
1	IP 71151-OR01	Occupational Exposure Control Effectiveness		05/12/2008	05/16/2008	Baseline Inspections
1	IP 71151-PR01	RETS/ODCM Radiological Effluent		05/12/2008	05/16/2008	Baseline Inspections
	EP2	**- EP PROGRAM**	**1**			
1	IP 7111402	Alert and Notification System Testing		08/04/2008	08/08/2008	EP Baseline Inspection
1	IP 7111403	Emergency Response Organization Augmentation Testing		08/04/2008	08/08/2008	EP Baseline Inspection
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		08/04/2008	08/08/2008	EP Baseline Inspection
1	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		08/04/2008	08/08/2008	EP Baseline Inspection
1	IP 71151-EP01	Drill/Exercise Performance		08/04/2008	08/08/2008	Baseline Inspections
1	IP 71151-EP02	ERO Drill Participation		08/04/2008	08/08/2008	Baseline Inspections
1	IP 71151-EP03	Alert & Notification System		08/04/2008	08/08/2008	Baseline Inspections
	EB1-08B	**- INSERVICE INSPECTION**	**2**			
1	IP 7111108G	Inservice Inspection Activities - BWR		09/29/2008	10/03/2008	Baseline Inspections
	RP-ORS2	**- OCCUPATIONAL RADIATION SAFETY-ACCESS**	**1**			
1	IP 7112101	Access Control to Radiologically Significant Areas		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
	PBC-09Q1	**- GGNS RI 1ST QTR REPORT 2009**	**2**			
1	IP 7111101	Adverse Weather Protection		01/01/2009	03/31/2009	Baseline Inspections
1	IP 7111102	Evaluation of Changes, Tests, or Experiments		01/01/2009	03/31/2009	Baseline Inspections
1	IP 7111104	Equipment Alignment (Quarterly)		01/01/2009	03/31/2009	Baseline Inspections
1	IP 7111104S	Equipment Alignment		01/01/2009	03/31/2009	Baseline Inspections
1	IP 7111105A	Fire Protection - Annual		01/01/2009	03/31/2009	Baseline Inspections
1	IP 7111105Q	Fire Protection - Quarterly		01/01/2009	03/31/2009	Baseline Inspections
1	IP 7111106	Flood Protection Measures		01/01/2009	03/31/2009	Baseline Inspections

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

Grand Gulf
Inspection / Activity Plan
03/01/2008 - 06/30/2009

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	PBC-09Q1	**- GGNS RI 1ST QTR REPORT 2009**	**2**			
1	IP 7111107A	Heat Sink Performance		01/01/2009	03/31/2009	Baseline Inspections
1	IP 7111111Q	Licensed Operator Requalification Program		01/01/2009	03/31/2009	Baseline Inspections
1	IP 7111113	Maintenance Risk Assessments and Emergent Work Control		01/01/2009	03/31/2009	Baseline Inspections
1	IP 7111115	Operability Evaluations		01/01/2009	03/31/2009	Baseline Inspections
1	IP 7111117B	Evaluations of Changes, Tests, or Experiments & Permanent Plant Modifications		01/01/2009	03/31/2009	Baseline Inspections
1	IP 7111118	Plant Modifications		01/01/2009	03/31/2009	Baseline Inspections
1	IP 7111119	Post Maintenance Testing		01/01/2009	03/31/2009	Baseline Inspections
1	IP 7111120	Refueling and Other Outage Activities		01/01/2009	03/31/2009	Baseline Inspections
1	IP 7111122	Surveillance Testing		01/01/2009	03/31/2009	Baseline Inspections
1	IP 71151	Performance Indicator Verification		01/01/2009	03/31/2009	Baseline Inspections
1	IP 71152	Identification and Resolution of Problems		01/01/2009	03/31/2009	Baseline Inspections
1	IP 71153	Followup of Events and Notices of Enforcement Discretion		01/01/2009	03/31/2009	Baseline Inspections
	EB1-21	**- CDBI**	**6**			
1	IP 7111121	Component Design Bases Inspection		02/02/2009	02/06/2009	Baseline Inspections
1	IP 7111121	Component Design Bases Inspection		02/17/2009	02/27/2009	Baseline Inspections
	RP-ORS3	**- OCCUPATIONAL RADIATION SAFETY - ALARA**	**1**			
1	IP 7112101	Access Control to Radiologically Significant Areas		02/23/2009	02/27/2009	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		02/23/2009	02/27/2009	Baseline Inspections
1	IP 71151	Performance Indicator Verification		02/23/2009	02/27/2009	Baseline Inspections
	EXAM	**- INITIAL EXAM**	**4**			
1	X02406	INITIAL EXAM-GG (3/2009)		03/02/2009	03/06/2009	Not Applicable
	RP-ORS4	**- OCCUPATIONAL RADIATION SAFETY - ACCESS**	**1**			
1	IP 7112101	Access Control to Radiologically Significant Areas		06/15/2009	06/19/2009	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		06/15/2009	06/19/2009	Baseline Inspections
1	IP 71151	Performance Indicator Verification		06/15/2009	06/19/2009	Baseline Inspections

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

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