



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION IV
1600 E. LAMAR BLVD
ARLINGTON, TX 76011-4511

March 1, 2017

Mr. Vincent Fallacara
Acting Site Vice President
Entergy Operations, Inc.
Grand Gulf Nuclear Station
P.O. Box 756
Port Gibson, MS 39150

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR GRAND GULF NUCLEAR STATION
(REPORT 05000416/2016006)**

Dear Mr. Fallacara:

On February 15, 2017, the U.S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance assessment of Grand Gulf Nuclear Station, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2016, through December 31, 2016. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. The NRC concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at Grand Gulf Nuclear Station during the most recent quarter was within the Regulatory Response Column, the second highest performance column of the NRC's Reactor Oversight Process (ROP) Action Matrix. This conclusion was based on the PI for Unplanned Scrams per 7,000 Critical Hours (Initiating Events Cornerstone) crossing the White threshold in the third quarter of 2016.

Therefore, in addition to ROP baseline inspections, the NRC plans to conduct a supplemental inspection in accordance with Inspection Procedure 95001, "Supplemental Inspection Response to Action Matrix Column 2 Inputs." The objectives of the supplemental inspection are: (1) to assure that the root causes and contributing causes of significant performance issues are understood, (2) to independently assess and assure that the extent of condition and extent of cause of significant performance issues are identified, (3) to assure that corrective actions taken to address and preclude repetition of significant performance issues are prompt and effective, and (4) to assure that corrective plans direct prompt actions to effectively address and preclude repetition of significant performance issues. This inspection will be scheduled after you notify the NRC of your readiness.

The enclosed inspection plan lists the inspections scheduled through December 31, 2018. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

This inspection plan does not include the plan for security-related inspections, which will be sent via separate, non-publicly available correspondence.

Additionally, as reflected in the enclosure, during this period the NRC staff will complete Temporary Instruction 2515/191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/ Staffing/Multi-Unit Dose Assessment Plans." This inspection will be conducted at Grand Gulf Nuclear Station to confirm the station's full implementation of Commission Orders EA-12-049 and EA-12-051.

From January 1 to December 31, 2016, the NRC issued three Severity Level IV traditional enforcement violations associated with impeding the regulatory process. Therefore, the NRC plans to conduct Inspection Procedure 92723, "Follow Up Inspection for Three or More Severity Level IV Traditional Enforcement Violations in the Same Area in a 12-Month Period," to follow-up on these violations. This inspection will be scheduled after you notify the NRC of your readiness.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter 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).

Please contact Greg Warnick at 817-200-1144 with any questions you have regarding this letter.

Sincerely,

/RA/

Troy Pruett, Director
Division of Reactor Projects

Docket No. 50-416
License No. NPF-29

Enclosure:
Grand Gulf Nuclear Station Inspection Plan

ANNUAL ASSESSMENT LETTER FOR GRAND GULF NUCLEAR STATION
(REPORT 05000416/2016006) - DATED MARCH 1, 2017

DISTRIBUTION:

Regional Administrator (Kriss.Kennedy@nrc.gov)
 Deputy Regional Administrator (Scott.Morris@nrc.gov)
 DRP Director (Troy.Pruett@nrc.gov)
 DRP Deputy Director (Ryan.Lantz@nrc.gov)
 DRS Director (Anton.Vegel@nrc.gov)
 DRS Deputy Director (Jeff.Clark@nrc.gov)
 Senior Resident Inspector (Matt.Young@nrc.gov)
 Resident Inspector (Neil.Day@nrc.gov)
 Site Administrative Assistant (Amy.Elam@nrc.gov)
 Branch Chief, DRP/C (Greg.Warnick@nrc.gov)
 Senior Project Engineer, DRP/C (Cale.Young@nrc.gov)
 Project Engineer, DRP/C (Michael.Stafford@nrc.gov)
 Public Affairs Officer (Victor.Dricks@nrc.gov)
 Project Manager (Siva.Lingam@nrc.gov)
 Team Leader, DRS/IPAT (Thomas.Hipschman@nrc.gov)
 Project Engineer, DRS/IPAT (Eduardo.Uribe@nrc.gov)
 RITS Coordinator (Marisa.Herrera@nrc.gov)
 ACES (R4Enforcement.Resource@nrc.gov)
 Regional Counsel (Karla.Fuller@nrc.gov)
 Senior Congressional Affairs Officer (Jenny.Weil@nrc.gov)
 RIV Congressional Affairs Officer (Angel.Moreno@nrc.gov)
 RIV/ETA: OEDO (Jeremy.Bowen@nrc.gov)
 RIV RSLO (Bill.Maier@nrc.gov)
 Director, DIRS, NRR (Chris.Miller@nrc.gov)
 Deputy Director, DIRS, NRR (Michael.King2@nrc.gov)
 Director, DORL, NRR (Anne.Boland@nrc.gov)
 Deputy Director, DORL, NRR (Kathryn.Brock@nrc.gov)
 Director, NSIR (Brian.Holian@nrc.gov)
 Acting Director, DPR, NSIR (Stephanie.Coffin@nrc.gov)
 DRP Branch Chiefs (R4DRP-BC@nrc.gov)
 DRS Branch Chiefs (R4DRS-BC@nrc.gov)
 ROPreports.Resource@nrc.gov
 ROPassessment.Resource@nrc.gov

ADAMS ACCESSION NUMBER: ML17059D517

<input checked="" type="checkbox"/> SUNSI Review By: GWarnick/dll		ADAMS <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive	Keyword: NRC-002
OFFICE	RIV/C	RIV/DRS:D	RIV/DRP:D			
NAME	GWarnick	AVegel	TPruett			
SIGNATURE	/RA/	/RA JClark for/	/RA/			
DATE	2/27/17	2/23/17	2/27/17			

OFFICIAL RECORD COPY

Grand Gulf
Inspection / Activity Plan
01/01/2017 - 12/31/2018

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		EP3	- EP PROGRAM INSPECTION (POSTPONE 2016)	2
1	01/09/2017 01/13/2017	IP 7111402	Alert and Notification System Testing	
1	01/09/2017 01/13/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	01/09/2017 01/13/2017	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	01/09/2017 01/13/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
		RESTART	- ENHANCED BASELINE FOR STAND DOWN RESTART	6
1	01/10/2017 03/25/2017	IP 7111104	Equipment Alignment (Quarterly)	
1	01/10/2017 03/25/2017	IP 7111111Q	Licensed Operator Requalification Program	
1	01/10/2017 03/25/2017	IP 7111118	Plant Modifications	
1	01/10/2017 03/25/2017	IP 7111119	Post Maintenance Testing	
1	01/10/2017 03/25/2017	IP 7111120	Refueling and Other Outage Activities	
1	01/10/2017 03/25/2017	IP 7111122	Surveillance Testing	
		RS 13 PI	- RADIATION SAFETY	2
1	02/13/2017 02/17/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	02/13/2017 02/17/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	02/13/2017 02/17/2017	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	02/13/2017 02/17/2017	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
		EB2-05T	- TRIENNIAL FIRE PROTECTION INSPECTION	4
1	04/03/2017 04/07/2017	IP 7111105T	Fire Protection [Triennial]	
1	04/17/2017 04/28/2017	IP 7111105T	Fire Protection [Triennial]	
		T1191	- MITIGATING STRATEGIES/SFP INST FOR BDBEE	4
1	03/06/2017 03/10/2017	IP 2515/191	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Request March 12, 2012	
		EP-2	- BIENNIAL EP EXERCISE INSPECTION	4
1	03/27/2017 03/31/2017	IP 7111401	Exercise Evaluation	
1	03/27/2017 03/31/2017	IP 7111404	Emergency Action Level and Emergency Plan Changes	
		EXAM	- INITIAL EXAM	3
1	04/10/2017 04/14/2017	X02613	INITIAL EXAM GG(4/17)	
1	05/08/2017 05/12/2017	X02613	INITIAL EXAM GG(4/17)	
		ISFSI	- LOADING INSPECTION (ONE WEEK IN MONTH)	1
1	06/01/2017 06/30/2017	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
		EXAM	- INITIAL EXAM (2ND ONE)	4
1	10/30/2017 11/03/2017	X02598	INITIAL EXAM GRAND GULF (12/2017)	
1	12/04/2017 12/08/2017	X02598	INITIAL EXAM GRAND GULF (12/2017)	

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

Grand Gulf
Inspection / Activity Plan
 01/01/2017 - 12/31/2018

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		RS 5678 - RS TEAM		4
1	07/10/2017 07/14/2017	IP 71124.05	Radiation Monitoring Instrumentation	
1	07/10/2017 07/14/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	07/10/2017 07/14/2017	IP 71124.07	Radiological Environmental Monitoring Program	
1	07/10/2017 07/14/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
		BRQ - BRQ INSPECTION		3
1	07/31/2017 08/04/2017	IP 7111111B	Licensed Operator Requalification Program	
		EB1-21M - GG DESIGN BASIS INSPECTION		6
1	09/11/2017 09/29/2017	IP 7111121M	Component Design Bases Inspection (Teams)	
		TSB 52B - BIENNIAL PI&R		4
1	10/30/2017 11/03/2017	IP 71152B	Problem Identification and Resolution	
1	11/13/2017 11/17/2017	IP 71152B	Problem Identification and Resolution	
		71111.08 - INSERVICE INSPECTION R21		1
1	03/05/2018 03/09/2018	IP 7111108G	Inservice Inspection Activities - BWR	
		RS 12PI - RAD SAFETY		2
1	03/05/2018 03/09/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	03/05/2018 03/09/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1	03/05/2018 03/09/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	03/05/2018 03/09/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
		EB1-17T - GG 50.59 CHANGES, TESTS, EXPERIMENTS		3
1	10/22/2018 10/26/2018	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
		EP-1 - EP PROGRAM INSPECTION		1
1	11/05/2018 11/09/2018	IP 7111402	Alert and Notification System Testing	
1	11/05/2018 11/09/2018	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	11/05/2018 11/09/2018	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	11/05/2018 11/09/2018	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	11/05/2018 11/09/2018	IP 71151-EP01	Drill/Exercise Performance	
1	11/05/2018 11/09/2018	IP 71151-EP02	ERO Readiness	
1	11/05/2018 11/09/2018	IP 71151-EP03	Alert & Notification System Reliability	
		RS 5678 - RAD SAFETY		4
1	11/26/2018 11/30/2018	IP 71124.05	Radiation Monitoring Instrumentation	
1	11/26/2018 11/30/2018	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	11/26/2018 11/30/2018	IP 71124.07	Radiological Environmental Monitoring Program	

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

Grand Gulf
Inspection / Activity Plan
01/01/2017 - 12/31/2018

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
1	11/26/2018 11/30/2018	RS 5678 - RAD SAFETY IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	4

Comments:

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