



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
1600 EAST LAMAR BOULEVARD  
ARLINGTON, TEXAS 76011-4511

March 4, 2019

Mr. Eric Larson, 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 05000416/2018006)

Dear Mr. Larson:

The U.S. Nuclear Regulatory Commission (NRC) has completed its end-of-cycle performance assessment of Grand Gulf Nuclear Station, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2018, through December 31, 2018. 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. Grand Gulf Nuclear Station began the 2018 assessment period in the Regulatory Response Column of the ROP Action Matrix as a result of a White Parallel PI Finding that was effective as of the first quarter of 2017. This finding was closed based on the results of a supplemental inspection conducted in June 2018, which resulted in the NRC updating its assessment of Grand Gulf Nuclear Station to be in the Licensee Response Column, the highest performance category of the ROP Action Matrix, effective August 2018. Based on a White PI for Unplanned Power Changes per 7,000 Critical Hours (Initiating Events Cornerstone) that was reported in October 2018 for the third quarter of 2018, the NRC updated its assessment of Grand Gulf Nuclear Station to be in the Regulatory Response Column as of the third quarter of 2018. Based on a White PI for Unplanned Scrams per 7,000 Critical Hours (Initiating Events Cornerstone) that was reported in January 2019 for the fourth quarter of 2018, the NRC determined that the performance at Grand Gulf Nuclear Station remained within the Regulatory Response Column.

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 this procedure are to assure that the root causes and contributing causes of individual and collective significant performance issues are understood, to independently assess and assure that the extent of condition and extent of cause of significant individual and collective performance issues are identified, to assure that corrective actions taken to address and preclude repetition of significant performance issues are prompt and effective, and to assure that corrective action 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 NRC identified a cross-cutting theme in the Human Performance area. Specifically, 20 findings had a cross-cutting aspect in this area during the 2018 end-of-cycle assessment period. Additionally, two aspects within this area, H.12 Avoid Complacency and H.13 Consistent Process, were each associated with five findings during this assessment period. The NRC will continue to monitor your staff's effort and progress in addressing this theme until the theme criterion is no longer met.

The enclosed inspection plan lists the inspections scheduled through December 31, 2020. This updated inspection plan now includes planned security inspections which were formerly transmitted under separate correspondence. 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. You should be aware that the agency has proposed changes regarding engineering inspections (SECY-18-0113, "Recommendations for Modifying the Reactor Oversight Process Engineering Inspections") and is drafting proposed changes to the ROP for Commission consideration. Should the Commission approve changes to the ROP, the engineering and other region-based inspections are subject to change in scope, as well as schedule, beginning in January 2020. The inspections listed during the last 12 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.

From December 9, 2016, through February 7, 2019, the NRC issued 10 Severity Level IV traditional enforcement violations associated with impeding the regulatory process. 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 has been scheduled for the week of April 1, 2019.

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 Jason Kozal at 817-200-1144 with any questions you have regarding this letter.

Sincerely,

/RA/

Anton Vogel, Director  
Division of Reactor Projects

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

Enclosure:  
Inspection Plan

# IP 22 Inspection Activity Plan Report

## 07200050 - Grand Gulf (ISFSI)

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>Grand Gulf Loading Inspection (one week in month)</b>						2
1	08/01/2019	08/31/2019	IP 60855	001001	Operation Of An ISFSI	
1	08/01/2019	08/31/2019	IP 60857	001004	Review of 10 CFR 72.48 Evaluations	

# IP 22 Inspection Activity Plan Report

## Grand Gulf

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>GG RI 4TH QUARTERLY REPORT</b>						2
1	09/01/2018	02/14/2019	IP 92702	000238	Followup on Corrective Actions For Violations And Deviations	
<b>GG Turbine Bypass Valve Scram SIT</b>						3
1	12/16/2018	02/28/2019	IP 93812	000933	Special Inspection	
<b>TI 2515/194</b>						1
1	01/07/2019	01/10/2019	TI 2515/194	000512	Inspection of the Licensee's Implementation of Industry Initiative Associated With the Open Phase Condition Design Vulnerabilities In Electric Power Systems (NRC Bulletin 2012-01)	
<b>Security Access Control .02</b>						1
1	01/07/2019	01/11/2019	IP 71130.02	000734	Access Control	
1	01/07/2019	01/11/2019	IP 71151	001338	Performance Indicator Verification	
<b>EOI Confirmatory Order Inspection</b>						2
1	01/07/2019	03/31/2019	IP 92702	000238	Followup on Corrective Actions For Violations And Deviations	
<b>Grand Gulf IP92723 Traditional Enforcement Follow-up</b>						2
1	02/03/2019	06/30/2019	IP 92723	000914	Follow Up Inspection for Three or More Severity Level IV Traditional Enforcement Violations in the S	
<b>Access Control - Uncompensated VA door issue</b>						2
1	02/18/2019	02/22/2019	IP 71130.02	000734	Access Control	
<b>EP EXERCISE INSPECTION</b>						4
1	03/11/2019	03/15/2019	IP 71114.01	000716	Exercise Evaluation	
1	03/11/2019	03/15/2019	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1	03/11/2019	03/15/2019	IP 71151	001397	Performance Indicator Verification	
<b>CYBER SECURITY INSPECTION</b>						4
1	04/28/2019	05/04/2019	IP 71130.10P	000741	Cyber Security	
1	05/12/2019	05/18/2019	IP 71130.10P	000741	Cyber Security	
<b>RP INSPECTION (2,4)</b>						1
1	06/03/2019	06/07/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	06/03/2019	06/07/2019	IP 71124.04	000728	Occupational Dose Assessment	

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

# IP 22 Inspection Activity Plan Report

## Grand Gulf

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>GRAND GULF HEAT SINK INSPECTION</b>						2
1	06/17/2019	06/21/2019	IP 71111.07T	000700	Heat Sink Performance -Triennial	
<b>GG 2019 BRQ</b>						2
1	08/11/2019	08/17/2019	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance (Biennial)	
<b>GRAND GULF DBA PROGRAM EQ INSPECTION</b>						3
1	09/09/2019	09/27/2019	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
<b>Security Protective Strategy .05</b>						2
1	09/16/2019	09/20/2019	IP 71130.05	000737	Protective Strategy Evaluation	
<b>RP INSPECTION (1,3)</b>						2
1	09/30/2019	10/04/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	09/30/2019	10/04/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
<b>GG 2020 INITIAL EXAM 1</b>						6
1	01/05/2020	01/11/2020	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	02/02/2020	02/08/2020	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>Biennial PI&amp;R</b>						4
1	01/13/2020	01/17/2020	IP 71152B	000747	Problem Identification and Resolution	
1	01/27/2020	01/31/2020	IP 71152B	000747	Problem Identification and Resolution	
<b>Inservice Inspection</b>						1
1	03/02/2020	03/06/2020	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
<b>RS12PI Radiation Safety</b>						2
1	03/02/2020	03/06/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	03/02/2020	03/06/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
<b>Triennial Fire Protection Inspection</b>						4
1	08/09/2020	08/15/2020	IP 71111.05T	000696	Fire Protection (Triennial)	
1	08/23/2020	08/29/2020	IP 71111.05T	000696	Fire Protection (Triennial)	

# IP 22 Inspection Activity Plan Report

## Grand Gulf

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>GG 2020 INITIAL EXAM 2</b>						6
1	09/13/2020	09/19/2020	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	10/18/2020	10/24/2020	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>Grand Gulf 1 - Design Bases Assurance Inspection (Teams)</b>						6
1	09/21/2020	09/25/2020	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
1	10/05/2020	10/09/2020	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
<b>EP Program Inspection</b>						1
1	11/16/2020	11/20/2020	IP 71114.02	000717	Alert and Notification System Testing	
1	11/16/2020	11/20/2020	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1	11/16/2020	11/20/2020	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1	11/16/2020	11/20/2020	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1	11/16/2020	11/20/2020	IP 71151	001397	Performance Indicator Verification	
<b>RS5678 Radiation Safety PS Team</b>						4
1	11/16/2020	11/20/2020	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1	11/16/2020	11/20/2020	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1	11/16/2020	11/20/2020	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1	11/16/2020	11/20/2020	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
<b>MC&amp;A - Material Control &amp; Accounting</b>						1
1	11/16/2020	11/20/2020	IP 71130.11	000742	Material Control and Accounting (MC&A)	

ANNUAL ASSESSMENT LETTER FOR GRAND GULF NUCLEAR STATION  
(REPORT 05000416/2018006) – March 4, 2019

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