



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

March 3, 2020

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 05000416/2019006)**

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, inspection results, and enforcement actions from January 1, 2019, through December 31, 2019. 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 Licensee Response Column, the highest performance category of the NRC's Reactor Oversight Process (ROP) Action Matrix, because all inspection findings had very low safety significance (i.e., Green) and all performance indicators were within the expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility. As discussed in the 2018 annual assessment letter, dated March 4, 2019 (ADAMS Accession No. ML19064A731), the NRC determined the performance at Grand Gulf Nuclear Station to be in the Regulatory Response Column (Column 2) of the Reactor Oversight Process Action Matrix beginning the third quarter of 2018. In October 2019, the NRC completed a supplemental inspection in accordance with Inspection Procedure 95001, "Supplemental Inspection Response to Action Matrix Column 2 Inputs." The results of this inspection were documented in NRC Supplemental Inspection Report 05000416/2019040 and Assessment Follow-up Letter, dated November 26, 2019 (ADAMS Accession No. ML19330G192), in which Grand Gulf Nuclear Station was transitioned to the Licensee Response Column (Column 1) of the ROP Action Matrix as of the date of the letter.

The enclosed inspection plan lists the inspections scheduled through December 31, 2021. 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 is pursuing potential changes to the ROP, including changes to engineering inspections (SECY-18-0113, "Recommendations for Modifying the Reactor Oversight Process Engineering Inspections"), and other changes to the baseline inspection program described in SECY-19-0067, "Recommendations for Enhancing the Reactor Oversight Process." Should

these changes to the ROP be implemented, the engineering and other region-based inspections are subject to change in scope, as well as schedule. 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.

On March 12, 2018, the NRC issued a Confirmatory Order (ADAMS Accession No. ML18072A191) (EA-17-132 and EA-17-153) to the Entergy fleet that included Grand Gulf Nuclear Station. On January 27, 2020, the NRC initiated a Confirmatory Order follow-up inspection at Entergy Corporate Headquarters in Jackson, MS, of the Confirmatory Order actions required to be completed by the end of calendar year 2019, in accordance with Inspection Procedure 92702, "Followup on Traditional Enforcement Actions Including Violations, Deviations, Confirmatory Action Letters, Confirmatory Orders, And Alternative Dispute Resolution Confirmatory Orders." The results of this inspection, which are currently being evaluated, will be documented in NRC Inspection Report 05000416/2020011. The NRC plans to conduct future follow-up inspections of the remaining open Confirmatory Order actions required to be completed by Entergy. The NRC will coordinate with Entergy to schedule these inspection activities.

From December 2016 through August 2019, the NRC issued 11 Severity Level IV traditional enforcement violations to Grand Gulf Nuclear Station associated with impeding the regulatory process. In February 2020, the NRC conducted an inspection in accordance with 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. The results of this inspection, which are currently being evaluated, will be documented in NRC Inspection Report 05000416/2020014.

Additionally, during this period the NRC will schedule an additional inspection per a revised version of Temporary Instruction (TI) 2515/194, "Inspection of the Licensee's Implementation of Industry Initiative Associated with the Open Phase Condition Design Vulnerability in Electrical Power Systems (NRC Bulletin 2012-01)" for any sites who elect to implement the guidance of the Industry Initiative on Open Phase Condition, Revision 3 (ML19163A176), which included an option for relying on annunciation and operator manual actions instead of automatic protective features to isolate a power supply affected by an open phase condition. Licensees will be individually notified when the NRC schedules these inspections.

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 Mr. 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. 05000416
License No. NPF-29

Enclosure:
Inspection Plan

cc w/ encl: Distribution via LISTSERV

IP 22 Inspection Activity Plan Report

07200050 - Grand Gulf (ISFSI)

01/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
Grand Gulf Loading Inspection (one week in month)						2
1	08/01/2019	01/31/2020	IP 60855	001001	Operation Of An ISFSI	
1	08/01/2019	01/31/2020	IP 60857	001004	Review of 10 CFR 72.48 Evaluations	

IP 22 Inspection Activity Plan Report

Grand Gulf

01/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
GG ENTERGY CO FOLLOWUP - 2						2
1	12/01/2019	03/31/2020	IP 92702 CONF	001581	Enforcement Related Order Follow-Up-Only	
GG 2020 INITIAL EXAM 1						4
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)	
Biennial PI&R Inspection						4
1	01/13/2020	01/17/2020	IP 71152B	000747	Problem Identification and Resolution	
1	01/27/2020	01/30/2020	IP 71152B	000747	Problem Identification and Resolution	
Grand Gulf IP92723 TE Follow-Up						2
1	02/03/2020	02/07/2020	IP 92723	000914	Follow Up Inspection for Three or More Severity Level IV Traditional Enforcement Violations in the S	
Inservice Inspection RF22 - GG						1
1	03/02/2020	03/06/2020	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
RS12PI Radiation Safety						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	
Security Access Control .02						1
1	06/15/2020	06/19/2020	IP 71130.02	000734	Access Control	
1	06/15/2020	06/19/2020	IP 71151	001338	Performance Indicator Verification	
Security Equipment Maint and Security Training .04/07						2
1	07/20/2020	07/24/2020	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1	07/20/2020	07/24/2020	IP 71130.07	000739	Security Training	
Fire Protection Inspection - GG						3
1	08/10/2020	08/14/2020	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
1	08/24/2020	08/28/2020	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
GG 2020 INITIAL EXAM 2						4
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)	

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

01/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
Grand Gulf 1 - Design Bases Assurance Inspection (Teams)						5
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)	
EP Program Inspection						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	
RS5678 Radiation Safety PS Team						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	
MC&A - Material Control & Accounting						1
1	11/16/2020	11/20/2020	IP 71130.11	000742	Material Control and Accounting (MC&A)	
RP 2,4						2
1	02/15/2021	02/19/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	02/15/2021	02/19/2021	IP 71124.04	000728	Occupational Dose Assessment	
Security FFD .08						1
1	02/22/2021	02/26/2021	IP 71130.08	000740	Fitness For Duty Program	
EP Exercise and PI Inspection						4
1	03/15/2021	03/19/2021	IP 71114.01	000716	Exercise Evaluation	
1	03/15/2021	03/19/2021	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1	03/15/2021	03/19/2021	IP 71151	001397	Performance Indicator Verification	
FORCE-ON-FORCE PLANNING AND EXERCISE WEEKS - GG						6
1	04/12/2021	04/16/2021	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1	05/03/2021	05/07/2021	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	

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Grand Gulf

01/01/2020 - 12/31/2021

Unit	Start	End	Activity	CAC	Title	Staff Count
RP 1,3,PI						2
1	04/19/2021	04/23/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	04/19/2021	04/23/2021	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
50.59 Inspection 17T - Grand Gulf						3
1	05/17/2021	05/21/2021	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
Security Access Authorization .01 and Access Control .02 w/PIV						2
1	05/17/2021	05/21/2021	IP 71130.01	000733	Access Authorization	
1	05/17/2021	05/21/2021	IP 71130.02	000734	Access Control	
1	05/17/2021	05/21/2021	IP 71151	001338	Performance Indicator Verification	
Heat Sink Performance 07T - Grand Gulf						2
1	07/12/2021	07/16/2021	IP 71111.07T	000700	Heat Sink Performance	
GG 2021 BRQ						2
1	08/15/2021	08/21/2021	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
GG 2021 INITIAL EXAM						5
1	08/22/2021	08/28/2021	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	09/26/2021	10/02/2021	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	