



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

March 1, 2018

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 05000416/2017006)

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, 2017, through December 31, 2017. 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 a parallel PI inspection finding having low-to-moderate safety significance (i.e., White) in the Initiating Events Cornerstone, which was effective as of the first quarter of 2017. This finding was discussed in NRC Inspection Report 05000416/2017013 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML17342B130), dated December 6, 2017, in which the NRC concluded that the station's actions in response to a White Unplanned Scrams per 7000 Critical Hours PI, which you reported for the third and fourth quarters of 2016, did not meet the objectives of Inspection Procedure 95001, "Supplemental Inspection Response to Action Matrix Column 2 Inputs."

Therefore, in addition to ROP baseline inspections, the NRC plans to conduct an additional supplemental inspection in accordance with Inspection Procedure 95001 to review your station's actions to address the weaknesses described in the above inspection report as they relate to the inspection objectives. The objectives of this 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.

Additionally, the NRC issued an assessment follow-up letter dated June 28, 2017, in which we indicated our intent to conduct a supplemental inspection in accordance with Inspection Procedure 95001 in response to a White PI for Unplanned Power Changes per 7000 Critical Hours, which you reported in May 2017. You subsequently retracted from this PI data a power change event that had been previously included in the data submitted for the third quarter of 2016. As a result, this PI remained Green; therefore, the NRC does not plan to conduct the supplemental inspection as previously indicated.

The enclosed inspection plan lists the inspections scheduled through December 31, 2019. 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. 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.

As reflected in the enclosed inspection plan, the Problem Identification and Resolution baseline inspection for the 2018-19 biennial inspection cycle has been scheduled for the fourth quarter of 2018. The scheduling of this inspection was informed by the results of the previous inspection documented in NRC Inspection Report 05000416/2017011 (ADAMS Accession No. ML 18043B137) dated February 12, 2018.

Additionally, from January 1 to December 31, 2016, the NRC issued three Severity Level IV traditional enforcement violations associated with impeding the regulatory process. Additionally, from January 1 to December 31, 2017, the NRC issued five 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. These inspections 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 the

NRC's document system Agencywide Documents Access and Management 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/**

Troy Pruett, Director  
Division of Reactor Projects

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

Enclosure:  
Inspection Plan

# IP 22 Inspection Activity Plan Report

## Grand Gulf

01/01/2018 - 12/31/2019

| Unit   | Start      | End        | Activity     | CAC    | Title  | Staff Count |
|--|------------|------------|--------------|--------|--|-------------|
| <b>EP PERFORMANCE INDICATOR VERIFICATION</b>       |            |            |              |        |  | 2           |
| 1  | 10/27/2017 | 01/06/2018 | IP 71151     | 001397 | Performance Indicator Verification                   |             |
| <b>SECURITY SOLO INSPECTION</b>                    |            |            |              |        |  | 1           |
| 1  | 02/05/2018 | 02/09/2018 | IP 71130.02  | 000734 | Access Control                                       |             |
| 1  | 02/05/2018 | 02/09/2018 | IP 71151     | 001338 | Performance Indicator Verification                   |             |
| <b>INSERVICE INSPECTION R21</b>                    |            |            |              |        |  | 1           |
| 1  | 04/23/2018 | 04/27/2018 | IP 71111.08G | 000701 | Inservice Inspection Activities - BWR                |             |
| <b>RAD SAFETY RFO 1,2</b>                          |            |            |              |        |  | 2           |
| 1  | 04/23/2018 | 04/27/2018 | IP 71124.01  | 000725 | Radiological Hazard Assessment and Exposure Controls |             |
| 1  | 04/23/2018 | 04/27/2018 | IP 71124.02  | 000726 | Occupational ALARA Planning and Controls             |             |
| 1  | 04/23/2018 | 04/27/2018 | IP 71151     | 000746 | Performance Indicator Verification                   |             |
| <b>FORCE-ON-FORCE PLANNING &amp; EXERCISE WEEK</b> |            |            |              |        |  | 7           |
| 1  | 07/23/2018 | 07/27/2018 | IP 71130.03  | 000735 | Contingency Response - Force-On-Force Testing        |             |
| 1  | 08/13/2018 | 08/17/2018 | IP 71130.03  | 000735 | Contingency Response - Force-On-Force Testing        |             |
| <b>SECURITY TEAM INSPECTION</b>                    |            |            |              |        |  | 2           |
| 1  | 10/15/2018 | 10/19/2018 | IP 71130.04  | 000736 | Equipment Performance, Testing, and Maintenance      |             |
| 1  | 10/15/2018 | 10/19/2018 | IP 71130.07  | 000739 | Security Training                                    |             |
| <b>BIENNIAL PI&amp;R INSPECTION</b>                |            |            |              |        |  | 4           |
| 1  | 10/22/2018 | 10/26/2018 | IP 71152B    | 000747 | Problem Identification and Resolution                |             |
| 1  | 11/05/2018 | 11/09/2018 | IP 71152B    | 000747 | Problem Identification and Resolution                |             |
| <b>EP PROGRAM INSPECTION</b>                       |            |            |              |        |  | 1           |
| 1  | 11/05/2018 | 11/09/2018 | IP 71114.02  | 000717 | Alert and Notification System Testing                |             |

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

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|---|------------|------------|--------------|--------|---|-------------|
| <b>EP PROGRAM INSPECTION</b>                |            |            |              |        |   | 1           |
| 1   | 11/05/2018 | 11/09/2018 | IP 71114.03  | 000718 | Emergency Response Organization Staffing and Augmentation System  |             |
| 1   | 11/05/2018 | 11/09/2018 | IP 71114.04  | 000719 | Emergency Action Level and Emergency Plan Changes   |             |
| 1   | 11/05/2018 | 11/09/2018 | IP 71114.05  | 000720 | Correction of Emergency Preparedness Weaknesses and Deficiencies  |             |
| 1   | 11/05/2018 | 11/09/2018 | IP 71151     | 001397 | Performance Indicator Verification  |             |
| <b>RAD SAFETY TEAM 5,6,7,8</b>              |            |            |              |        |   | 4           |
| 1   | 11/26/2018 | 11/30/2018 | IP 71124.05  | 000729 | Radiation Monitoring Instrumentation  |             |
| 1   | 11/26/2018 | 11/30/2018 | IP 71124.06  | 000730 | Radioactive Gaseous and Liquid Effluent Treatment   |             |
| 1   | 11/26/2018 | 11/30/2018 | IP 71124.07  | 000731 | Radiological Environmental Monitoring Program   |             |
| 1   | 11/26/2018 | 11/30/2018 | IP 71124.08  | 000732 | Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation   |             |
| <b>GG 50.59 CHANGES, TESTS, EXPERIMENTS</b> |            |            |              |        |   | 3           |
| 1   | 12/10/2018 | 12/14/2018 | IP 71111.17T | 000709 | Evaluations of Changes, Tests, and Experiments  |             |
| <b>SECURITY SOLO INSPECTION</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>TI 2515/194</b>                          |            |            |              |        |   | 2           |
| 1   | 01/14/2019 | 01/18/2019 | 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>RP INSPECTION</b>                        |            |            |              |        |   | 2           |
| 1   | 01/28/2019 | 02/01/2019 | IP 71124.02  | 000726 | Occupational ALARA Planning and Controls  |             |
| 1   | 01/28/2019 | 02/01/2019 | IP 71124.04  | 000729 | Occupational Dose Assessment  |             |

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## Grand Gulf

01/01/2018 - 12/31/2019

| Unit  | Start      | End        | Activity     | CAC    | Title  | Staff Count |
|---|------------|------------|--------------|--------|--|-------------|
| <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   | 04/29/2019 | 05/03/2019 | IP 71130.10P | 000741 | Cyber Security   |             |
| 1   | 05/13/2019 | 05/17/2019 | IP 71130.10P | 000741 | Cyber Security   |             |
| <b>GRAND GULF HEAT SINK INSPECTION</b>      |            |            |              |        |  | 2           |
| 1   | 06/17/2019 | 06/21/2019 | IP 71111.07T | 000700 | Heat Sink Performance -Triennial   |             |
| <b>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 TEAM INSPECTION</b>             |            |            |              |        |  | 2           |
| 1   | 09/30/2019 | 10/04/2019 | IP 71130.05  | 000737 | Protective Strategy Evaluation   |             |
| <b>RP INSPECTION</b>                        |            |            |              |        |  | 3           |
| 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                                 |             |
| 1   | 09/30/2019 | 10/04/2019 | IP 71151     | 000746 | Performance Indicator Verification   |             |

ANNUAL ASSESSMENT LETTER FOR GRAND GULF NUCLEAR STATION  
(REPORT 05000416/2017006) DATED MARCH 1, 2018

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