



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION IV
1600 E. LAMAR BLVD
ARLINGTON, TX 76011-4511

September 1, 2015

Kevin Mulligan
Site Vice President Operations
Entergy Operations, Inc.
Grand Gulf Nuclear Station
P.O. Box 756
Port Gibson, MS 39150

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR GRAND GULF NUCLEAR
STATION (REPORT 05000416/2015005)

Dear Mr. Mulligan:

On August 13, 2015, the Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of the Grand Gulf Nuclear Station. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2014 through June 30, 2015. 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 determined that overall, the Grand Gulf Nuclear Station operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at the Grand Gulf Nuclear Station during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through June 30, 2017. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the second half of the inspection plan are tentative and may be revised at the end-of-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. 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 security-related inspections, which will be sent via separate, non-publicly available correspondence.

In response to the accident at Fukushima, the Commission issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," which requires licensees to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities following a beyond-design-basis external event. Additionally, the Commission issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation," which requires licensees to have a reliable means of remotely monitoring

wide-range Spent Fuel Pool levels to support effective prioritization of event mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these Orders. This audit includes an onsite component in order for the NRC to evaluate licensee plans for complying with the Orders, as described in site-specific submittals, and to receive and review information relative to associated open items. This onsite activity will occur in the months prior to a declaration of compliance for the first unit at each site, and will aid staff in development of an ultimate Safety Evaluation for the site. The date for the onsite component at your site is being coordinated with your staff. A site-specific audit plan for the visit will be provided in advance to allow sufficient time for preparations.

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 Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at (817) 200-1144 with any questions you have regarding this letter.

Sincerely,

/RA/

Greg Warnick, Branch Chief
Project Branch C
Division of Reactor Projects

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

Enclosure:
Grand Gulf Nuclear Station
Inspection/Activity Plan

wide-range Spent Fuel Pool levels to support effective prioritization of event mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these Orders. This audit includes an onsite component in order for the NRC to evaluate licensee plans for complying with the Orders, as described in site-specific submittals, and to receive and review information relative to associated open items. This onsite activity will occur in the months prior to a declaration of compliance for the first unit at each site, and will aid staff in development of an ultimate Safety Evaluation for the site. The date for the onsite component at your site is being coordinated with your staff. A site-specific audit plan for the visit will be provided in advance to allow sufficient time for preparations.

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 Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at (817) 200-1144 with any questions you have regarding this letter..

Sincerely,

/RA/

Greg Warnick, Branch Chief
Project Branch C
Division of Reactor Projects

Docket Nos. 50-416

License Nos. NPF-29

Enclosure:
Grand Gulf Nuclear Station
Inspection/Activity Plan

Distribution: See next page

ADAMS Accession Number: ML15243A563

<input checked="" type="checkbox"/> SUNSI Review By: RVA	ADAMS: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Sensitive <input checked="" type="checkbox"/> Non-Sensitive	<input type="checkbox"/> Non-Publicly Available <input checked="" type="checkbox"/> Publicly Available
OFFICE	RIV/DRP C/BC	RIV/DRS/DIR	RIV/DRP/DIR
NAME	GWarnick	AVegel	TPruett
SIGNATURE	/RA/	/RA/	/RA/
DATE	08/25/15	08/26/15	08/27/15

OFFICIAL RECORD COPY

Letter to Kevin Mulligan from Greg Warnick, dated September 1, 2015

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR GRAND GULF NUCLEAR
STATION (REPORT 05000416/2015005)

DISTRIBUTION:

Regional Administrator (Marc.Dapas@nrc.gov)
Deputy Regional Administrator (Kriss.Kennedy@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 (Alley.Farrell@nrc.gov)
Branch Chief, DRP (Greg.Warnick@nrc.gov)
Senior Project Engineer, DRP (Ray.Azua@nrc.gov)
Project Engineer, DRP (Paul.Nizov@nrc.gov)
Project Engineer, DRP (Michael.Stafford@nrc.gov)
Public Affairs Officer (Victor.Dricks@nrc.gov)
Public Affairs Officer (Lara.Uselding@nrc.gov)
RIV State Liaison Officer (Bill.Maier@nrc.gov)
Project Manager (Alan.Wang@nrc.gov)
Director, DIRS, NRR (Scott.Morris@nrc.gov)
Deputy Director, DIRS, NRR (Allen.Howe@nrc.gov)
Director, DORL, NRR (Anne.Boland@nrc.gov)
Deputy Director, DORL, NRR (George.Wilson@nrc.gov)
Chief, PLB IV, DORL, NRR (Meena.Khanna@nrc.gov)
Director, NSIR/DPR (Robert.Lewis@nrc.gov)
ACES (R4Enforcement.Resource@nrc.gov)
RITS Coordinator (Marisa.Herrera@nrc.gov)
Regional Counsel (Karla.Fuller@nrc.gov)
Technical Support Assistant (Loretta.Williams@nrc.gov)
Congressional Affairs Officer (Jenny.Weil@nrc.gov)
RIV Congressional Affairs Officer (Angel.Moreno@nrc.gov)
RIV/ETA: OEDO (Cindy.Rosales-Cooper@nrc.gov))
ROPassessment Resource@nrc.gov
ROPreports@nrc.gov
OEMailResource@nrc.gov

Electronic Distribution via Listserv for Grand Gulf Nuclear Station

Grand Gulf

Inspection / Activity Plan

07/01/2015 - 06/30/2017

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
1	10/26/2015 10/30/2015	EXAM - INITIAL OPERATOR EXAM	INITIAL EXAM GG(1/2015)	4
1	12/07/2015 12/11/2015	X02548 X02548	INITIAL EXAM GG(1/2015)	
1	07/27/2015 08/28/2015	EB1-21T - GG COMPONENT DESIGN BASIS INSPECTION	Component Design Bases Inspection	7
1	08/01/2015 08/30/2015	ISFSI - ROUTINE LOADING INSPECTION (ONE WEEK)	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	1
1	08/10/2015 08/14/2015	INSP - OPERATOR REQUAL INSPECTION	Licensed Operator Requalification Program	3
1	09/21/2015 09/25/2015	TSB 52B - BIENNIAL PI&R INSPECTION	Problem Identification and Resolution	4
1	10/05/2015 10/09/2015	IP 71152B IP 71152B	Problem Identification and Resolution	
1	10/19/2015 10/23/2015	EP-2 - HAB EXERCISE INSPECTION	Emergency Action Level and Emergency Plan Changes	6
1	10/19/2015 10/23/2015	IP 7111404 IP 7111407	Exercise Evaluation - Hostile Action (HA) Event	
1	10/19/2015 10/23/2015	EP-3 - EP PERFORMANCE INDICATORS		2
1	10/19/2015 10/23/2015	IP 71151-EP01 IP 71151-EP02	Drill/Exercise Performance ERO Readiness	
1	10/19/2015 10/23/2015	IP 71151-EP03	Alert & Notification System Reliability	
1	11/16/2015 11/20/2015	RS 12 PI - RADIATION SAFETY		2
1	11/16/2015 11/20/2015	IP 71124.01 IP 71124.02	Radiological Hazard Assessment and Exposure Controls Occupational ALARA Planning and Controls	
1	11/16/2015 11/20/2015	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	11/16/2015 11/20/2015	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
1	02/29/2016 03/04/2016	RS 13 PI - RADIATION SAFETY		2
1	02/29/2016 03/04/2016	IP 71124.01 IP 71124.03	Radiological Hazard Assessment and Exposure Controls In-Plant Airborne Radioactivity Control and Mitigation	
1	02/29/2016 03/04/2016	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	02/29/2016 03/04/2016	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
1	03/02/2016 03/06/2016	71111.08 - INSERVICE INSPECTION		1
1	03/02/2016 03/06/2016	IP 7111108G	Inservice Inspection Activities - BWR	
1	09/19/2016 09/23/2016	EB1-07T - GG HEAT SINK PERFORMANCE INSPECTION	Heat Sink Performance	1

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

Grand Gulf

Inspection / Activity Plan

07/01/2015 - 06/30/2017

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
1	10/17/2016	11/04/2016	EB1-17T	- GG PERM PLANT MODS & 50.59 INSPECTION	3
			IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
1	11/07/2016	11/11/2016	RS 24	- RADIATION SAFETY	2
			IP 71124.02	Occupational ALARA Planning and Controls	
1	11/07/2016	11/11/2016	IP 71124.04	Occupational Dose Assessment	
1	12/05/2016	12/09/2016	EP-1	- EP PERFORMANCE INDICATORS	1
			IP 71151-EP01	Drill/Exercise Performance	
1	12/05/2016	12/09/2016	IP 71151-EP02	ERO Readiness	
1	12/05/2016	12/09/2016	IP 71151-EP03	Alert & Notification System Reliability	
1	12/05/2016	12/09/2016	EP-2	- BIENNIAL EP PROGRAM INSPECTION	1
			IP 7111402	Alert and Notification System Testing	
1	12/05/2016	12/09/2016	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	12/05/2016	12/09/2016	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	12/05/2016	12/09/2016	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	02/13/2017	02/17/2017	RS 12 PI	- RADIATION SAFETY	2
			IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	02/13/2017	02/17/2017	IP 71124.02	Occupational ALARA Planning and Controls	
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	
1	04/17/2017	04/21/2017	EB2-05T	- TRIENNIAL FIRE PROTECTION INSPECTION	4
			IP 7111105T	Fire Protection [Triennial]	
1	05/01/2017	05/05/2017	IP 7111105T	Fire Protection [Triennial]	