



Entergy Operations, Inc.
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Grand Gulf Nuclear Station
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GNRO-2015/00050

August 28, 2015

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

SUBJECT: Entergy's Fifth Six-Month Status Report in Response to March 12, 2012 Commission Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051)
Grand Gulf Nuclear Station, Unit 1
Docket No. 50-416
License No. NPF-29

- REFERENCES:
1. NRC Order Number EA-12-051, *Order to Modify Licenses with Regard to Reliable Spent Fuel Pool (SFP) Instrumentation*, dated March 12, 2012 (ML12054A682)
 2. Entergy Letter to NRC, *Overall Integrated Plan in Response to March 12, 2012, Commission Order Modifying License with Regard to Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051)*, dated February 26, 2013 (GNRO-2013/00016, ML13064A417)
 3. Entergy Letter to NRC, *Entergy's First Six-Month Status Report in Response to March 12, 2012 Commission Order Modifying License with Regard to Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051)*, dated August 28, 2013 (GNRO-2013/00061)
 4. Entergy Letter to NRC, *Entergy's Second Six-Month Status Report in Response to March 12, 2012 Commission Order Modifying License with Regard to Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051)*, dated February 28, 2014 (GNRO-2014/00013)
 5. Entergy Letter to NRC, *Entergy's Third Six-Month Status Report in Response to March 12, 2012 Commission Order Modifying License with Regard to Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051)*, dated August 27, 2014 (GNRO-2014/00055)

6. *Entergy Letter to NRC, Entergy's Fourth Six-Month Status Report in Response to March 12, 2012 Commission Order Modifying License with Regard to Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051), dated February 18, 2015 (GNRO-2015/00005)*

Dear Sir or Madam:

On March 12, 2012, the U.S. Nuclear Regulatory Commission (NRC) issued an order (Reference 1) to Entergy Operations, Inc. (Entergy). Reference 1 was immediately effective and directs Entergy to install reliable spent fuel pool level instrumentation.

Reference 1 requires submission of a status report at six-month intervals following submittal of the overall integrated plan (Reference 2). The purpose of this letter is to provide the fifth six-month status report pursuant to Section IV, Condition C.2, of Reference 1, that delineates progress made in implementing the requirements of Reference 1. The attached report provides an update of milestone accomplishments since the last status report, including any changes to the compliance method, schedule, or need for relief and the basis, if any.

This letter contains no new regulatory commitments. Should you have any questions regarding this submittal, please contact Mr. James J. Nadeau, Regulatory Assurance Manager, at (601) 437-2103.

I declare under penalty of perjury that the foregoing is true and correct; executed on August 28, 2015.

Sincerely,



KJM/ras

Attachment: Grand Gulf Nuclear Station's Fifth Six Month Status Report for the Implementation of Order EA-12-051, Order Modifying Licenses with Regard to Requirements for Reliable Spent Fuel Pool Instrumentation

cc: U. S. Nuclear Regulatory Commission
ATTN: Kriss Kennedy
Deputy Regional Administrator, Region IV
1600 East Lamar Boulevard
Arlington, TX 76011-4511

U. S. Nuclear Regulatory Commission
Attn: Director, Office of Nuclear Reactor Regulation
Washington, DC 20555-0001

cc: U. S. Nuclear Regulatory Commission
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U. S. Nuclear Regulatory Commission
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Washington, DC 20555-0001

U. S. Nuclear Regulatory Commission
ATTN: Mr. Alan Wang, NRR/DORL
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NRC Senior Resident Inspector
Grand Gulf Nuclear Station
Port Gibson, MS 39150

Attachment to GNRO-2015/00050

**Grand Gulf Nuclear Station's Fifth Six Month Status Report for the Implementation
of Order EA-12-051, Order Modifying Licenses with Regard to Requirements for
Reliable Spent Fuel Pool Instrumentation**

1 Introduction

Grand Gulf Nuclear Station (GGNS) developed an Overall Integrated Plan (OIP - Reference 1 in Section 8), documenting the requirements to install reliable spent fuel pool level instrumentation (SFPI), in response to Reference 2 of section 8. This attachment provides an update of milestone accomplishments since the last status report, including any changes to the compliance method, schedule, or need for relief/relaxation and the basis, if any.

2 Milestone Accomplishments

The following milestone(s) have been completed since January 31, 2015 and are current as of July 31, 2015:

None.

3 Milestone Schedule Status

The following provides an update to the schedule identified in Section 2 of the Overall Integrated Plan. It provides the activity status of each item, and whether the expected completion date has changed. The dates are planning dates subject to change as design and implementation details are developed.

Milestone	Target Completion Date	Activity Status	Revised Target Completion Date
Install reliable SFPI	Spring 2016 Refueling Outage	Planned	N/A
Respond to NRC RAIs (received July 30, 2013)	August 29, 2013	Submitted August 29, 2013	N/A
Respond to ISE RAIs (received November 25, 2013)	September 30, 2015	Submitted February 27, 2015	N/A

4 Changes to Compliance Method

There are no additional changes to the compliance method.

5 Need for Relief/Relaxation and Basis for the Relief/Relaxation

GGNS expects to comply with the order implementation date and no relief/relaxation is required at this time.

6 Open Items from Overall Integrated Plan and Interim Staff Evaluation

GGNS has received an Interim Staff Evaluation (ISE) that includes 19 RAIs. The following table provides a status of any RAIs documented in the ISE.

RAI #	Response Status
1	Submitted in Reference 10
2	Submitted in Reference 10
3	Submitted in Reference 10
4	Submitted in Reference 10
5	Submitted in Reference 10
6	Submitted in Reference 10
7	Submitted in Reference 10
8	Submitted in Reference 10
9	Submitted in Reference 10
10	Submitted in Reference 10
11	Submitted in Reference 10
12	Submitted in Reference 10
13	Submitted in Reference 10
14	Submitted in Reference 10
15	Submitted in Reference 10
16	Submitted in Reference 10
17	Submitted in Reference 10
18	Submitted in Reference 10
19	Submitted in Reference 10

7 Potential Interim Evaluation Impacts

There are no potential impacts to the Interim Staff Evaluation identified at this time.

8 References

The following references support the updates to the Overall Integrated Plan described in this Attachment.

1. "Overall Integrated Plan in Response to March 12, 2012, Commission Order Modifying License with Regard to Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051)," dated February 26, 2013 (GNRO-2013/00016, ML13059A316).
2. NRC Order Number EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation," dated March 12, 2012 (ML12054A679).
3. "Grand Gulf Nuclear Station, Unit 1 – Interim Staff Evaluation and Request for Additional Information Regarding Overall Integrated Plan for Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051) (TAC NO. MF0955)," dated November 25, 2013 (ML13316B986).
4. "Summary of the November 26, 2013, Public Meeting to Discuss Industry Responses to Staff Interim Evaluations for Spent Fuel Pool Instrumentation," dated December 26, 2013 (ML13347B030).
5. "Request for Additional Information Regarding Overall Integrated Plan for Reliable Spent Fuel Pool Instrumentation (Order EA-12-051)," dated July 30, 2013 (GNRI-2013/00129).
6. Entergy Letter to NRC, Entergy's First Six-Month Status Report in Response to March 12, 2012 Commission Order Modifying License with Regard to Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051), dated August 28, 2013 (GNRO-2013/00061)
7. Entergy Letter to NRC, Entergy's Second Six-Month Status Report in Response to March 12, 2012 Commission Order Modifying License with Regard to Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051), dated February 28, 2014 (GNRO-2014/00013)
8. Entergy Letter to NRC, Entergy's Third Six-Month Status Report in Response to March 12, 2012 Commission Order Modifying License with Regard to Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051), dated August 27, 2014 (GNRO-2014/00055)
9. NEI 12-02, Industry Guidance for Compliance with NRC Order EA-12-051, "To Modify Licenses with Regard to Reliable Spent Fuel Pool Instrumentation," Revision 1, dated August 2012 (ML12240A307)
10. Entergy Letter to NRC, Entergy's Fourth Six-Month Status Report in Response to March 12, 2012 Commission Order Modifying License with Regard to Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051), dated February 18, 2015 (GNRO-2015/00005)