



**Entergy Nuclear Northeast
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JAFP-16-0028
February 26, 2016

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

Subject: Sixth 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)

James A. FitzPatrick Nuclear Power Plant
Docket No. 50-333
License No. DPR-059

- Reference:**
1. NRC Order Number, EA-12-051, Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation, ML12056A044, dated March 12, 2012
 2. NRC Interim Staff Guidance, Compliance with Order EA-12-051, Reliable Spent Fuel Pool Instrumentation, JLD-ISG-2012-03, dated August 29, 2012
 3. Industry Guidance for Compliance with NRC Order EA-12-051, To Modify Licenses with Regard to Reliable Spent Fuel Pool Instrumentation, NEI 12-02, Revision 1, dated August 24, 2012
 4. Entergy to NRC, Initial Status Report in Response to March 12, 2012 Commission Order Modifying Licenses with Regard to Requirements for Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051), JAFP-12-0125, dated October 29, 2012
 5. Entergy to NRC, James A. FitzPatrick 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), JAFP-13-0023, dated February 28, 2013
 6. Entergy to NRC, JAFP-15-0133, Notification of Permanent Cessation of Power Operations, dated November 18, 2015

Dear Sir or Madam:

On March 12, 2012, the Nuclear Regulatory Commission (“NRC” or “Commission”) issued an order [Reference 1] to James A. FitzPatrick Nuclear Power Plant (JAF). Reference 1 was immediately effective and directed JAF to install reliable spent fuel pool level instrumentation. Specific requirements are outlined in Attachment 2 of Reference 1.

Reference 1 required submission of an initial status report 60 days following issuance of the final interim staff guidance (Reference 2) and an overall integrated plan pursuant to Section IV, Condition C.2. Reference 2 endorsed industry guidance document NEI 12-02 Revision 1 [Reference 3] with clarifications and exceptions identified in Reference 2. Reference 4 provided the JAF initial status report regarding spent fuel pool instrumentation. Reference 5 provided the JAF overall integrated plan.

Reference 1 requires submission of a status report at six-month intervals following submittal of the overall integrated plan. Reference 3 provides direction regarding the content of the status reports. The purpose of this letter is to provide the sixth 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.

Reference 6 notified the NRC that Entergy had decided to permanently cease power operations of JAF in late 2016 or early 2017. This status report reflects that decision. Entergy is evaluating its responses to Reference 1 in order to determine the appropriate actions in alignment with the decision to permanently cease power operations. The immediate impact to the six-month update report is to suspend all scheduled actions to allow the evaluation of what specific activities related to spent fuel pool instrumentation will be required. This is reflected in the milestone schedule by revising dates by inserting "to be determined" (TBD).

This letter contains no new regulatory commitments. If you have any questions regarding this report, please contact Chris M. Adner, Regulatory Assurance Manager, at 315-349-6766.

I declare under penalty of perjury that the foregoing is true and correct. Executed on 26th day of February, 2016.

Sincerely,



Brian R. Sullivan
Site Vice President

BRS/CMA/mh

Attachment: James A. FitzPatrick Nuclear Power Plant's (JAF's) Sixth 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: Director, Office of Nuclear Reactor Regulation
NRC Region I Administrator
NRC Resident Inspector
NRC Senior Project Manager, Mr. Douglas Pickett
NYSPSC, Ms. Bridget Frymire
NYSERDA President, Mr. John B. Rhodes

JAFP-16-0028

Attachment

**James A. FitzPatrick Nuclear Power Plant's (JAF's) Sixth 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**

(4 Pages)

James A. FitzPatrick Nuclear Power Plant's (JAF's) Sixth 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

James A. FitzPatrick Nuclear Power Plant (JAF) developed an Overall Integrated Plan (Reference 1 in Section 8), documenting the requirements to install reliable spent fuel pool level instrumentation (SFPI), in response to Reference 2. 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 July 31, 2015, and are current as of January 31, 2016:

- Fifth Six-Month Status Report – August 2015 (JAFP-15-0105).
- Modification Evaluation Milestone has been completed.
- Design Engineering Milestone has been completed.

3. Milestone Schedule Status

The following provides an update to the milestone schedule to support the Overall Integrated Plan. This section provides the activity status of each item, and the expected completion date noting any change. 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
Submit 60 Day Status Report	October 2012	Complete	
Submit Overall Integrated Plan	February 2013	Complete	
Submit 6 Month Updates:			
Update 1	August 2013	Complete	
Update 2	February 2014	Complete	
Update 3	August 2014	Complete	
Update 4	February 2015	Complete	
Update 5	August 2015	Complete	
Update 6	February 2016	In progress	
Update 7	August 2016	Not Started	
Modifications:			
Modifications Evaluation	September 2015	Complete	

James A. FitzPatrick Nuclear Power Plant's (JAF's) Sixth 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

Milestone	Target Completion Date*	Activity Status	Revised Target Completion Date
Design Engineering	September 2015	Complete	
Implementation Outage	Fall of 2016	Not Started	TBD**
Procedures:			
Create Procedures	Fall of 2016	In Progress	TBD**
Training:			
Develop Training Plan	Fall of 2016	Not Started	TBD**
Training Complete	Fall of 2016	Not Started	TBD**
SFP LI Implementation	Fall of 2016	Not Started	TBD**
Full Site SFPI Implementation	Fall of 2016	Not Started	TBD**
Submit Completion Report	December 2016	Not Started	TBD**
Respond to ISE RAIs received December 12, 2013 (Reference 3)	March 31, 2016	Complete	
Respond to RAIs received August 29, 2013	October 3, 2013	Complete	

*Target Completion Date is the last submitted date from either the overall integrated plan or previous six-month update.

**These milestones are being reassessed and revised target completion dates will be determined and included in a future six-month update (see Section 4).

4. Changes to Compliance Method

On November 18, 2015, Entergy notified the NRC that it had decided to permanently cease power operations of JAF in late 2016 or early 2017. Entergy is evaluating its responses to Reference 2 in order to determine the appropriate actions in alignment with the decision to permanently cease power operations.

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

JAF will submit a plan that resolves any issues relative to order implementation up to the rescinding of the order by the NRC based on JAF 10 CFR 50.82 defueled certification letter. This plan may include a relief/relaxation request.

James A. FitzPatrick Nuclear Power Plant's (JAF's) Sixth 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

6. Open Items from Overall Integrated Plan and Interim Staff Evaluation

FitzPatrick has received an Interim Staff Evaluation that includes 18 RAIs. Responses to the RAIs are due by March 31, 2016. The following table provides a status of the RAIs.

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

7. Potential Interim Staff Evaluation Impacts

Entergy is currently evaluating its responses to Reference 2 in order to determine the appropriate actions in alignment with the decision to permanently cease power operations (Reference 10). Therefore, Entergy has not yet identified any additional potential impacts to the Interim Staff Evaluation since the previous six month status report (Reference 9).

James A. FitzPatrick Nuclear Power Plant's (JAF's) Sixth 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

8. References

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

1. James A. FitzPatrick 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), JAFP-13-0023, dated February 28, 2013 (ML13063A267).
2. Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation, EA-12-051, dated March 12, 2012 (ML12056A044).
3. James A. FitzPatrick Nuclear Power Plant – Interim Staff Evaluation and Request for Additional Information, Regarding the Overall Integrated Plan for Implementation of Order EA-12-051, Reliable Spent Fuel Pool Instrumentation (TAC No. MF1076), dated December 12, 2013 (ML13338A645).
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. James A. FitzPatrick Nuclear Power Plant - Request for Additional Information Regarding Overall Integrated Plan for Reliable Spent Fuel Pool Instrumentation (Order EA-12-051) (TAC No. MF1076), dated August 29, 2013 (ML13226A534).
6. Response to Request for Additional Information for the Overall Integrated Plan for the Commission Order Modifying Licenses with Regard to Requirements for Reliable Spent Fuel Pool Instrumentation, JAFP-13-0132, dated October 3, 2013.
7. Fourth 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), JAFP-15-0027, dated February 27, 2015 (ML15058A607).
8. Industry Guidance for Compliance with NRC Order EA-12-051, To Modify Licenses with Regard to Reliable Spent Fuel Pool Instrumentation, NEI 12-02, Revision 1, dated August 24, 2012 (ML12240A307)
9. James A. FitzPatrick letter to NRC, 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), dated August 28, 2015 (JAFP-15-0105) (ML15240A377)
10. Entergy to NRC, JAFP-15-0133, Notification of Permanent Cessation of Power Operations, dated November 18, 2015