

Charles R. Pierce
Regulatory Affairs Director

Southern Nuclear
Operating Company, Inc.
40 Inverness Center Parkway
Post Office Box 1295
Birmingham, AL 35242

Tel 205.992.7872
Fax 205.992.7601



August 27, 2015

Docket Nos.: 50-321
50-366

NL-15-1154

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

Edwin I. Hatch Nuclear Plant – Units 1 and 2
Fifth Six-Month Status Report of the Implementation of the
Requirements of the Commission Order with Regard to
Reliable Spent Fuel Pool Instrumentation (EA-12-051)

References:

1. NRC Order Number EA-12-051, Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation, dated March 12, 2012.
2. NRC Interim Staff Guidance JLD-ISG-2012-03, Compliance with Order EA-12-051, Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation, Revision 0, dated August 29, 2012.
3. 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.
4. Edwin I. Hatch Nuclear Plant – Units 1 and 2 Initial Status Report in Response to Commission Order with Regard to Reliable Spent Fuel Pool Instrumentation (EA-12-51), dated October 23, 2012.
5. Edwin I. Hatch Nuclear Plant – Units 1 and 2 Overall Integrated Plan in Response to Commission Order with Regard to Reliable Spent Fuel Pool Instrumentation (EA-12-051), dated February 27, 2013.
6. Interim Staff Evaluation and Request for Additional Information – Hatch Nuclear Plant, Units 1 and 2 (HNP) Regarding Overall Integrated Plan (OIP) for Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051) (TAC Nos. MF0721 and MF0722), dated October 28, 2013.

Ladies and Gentlemen:

On March 12, 2012, the Nuclear Regulatory Commission (NRC) issued an order (Reference 1) to Southern Nuclear Operating Company. Reference 1 was immediately effective and directs the Edwin I. Hatch Nuclear Plant – Units 1 and 2 (HNP) to install reliable spent fuel pool instrumentation. Specific requirements are outlined in Attachment 2 of Reference 1.

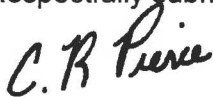
Reference 1 required submission of an initial status report 60 days following issuance of the final interim staff guidance (Reference 2) and an overall integrated plan pursuant to Section IV, Condition C.1.a of Reference 1. Reference 2 endorses industry guidance document NEI 12-02, Revision 1, (Reference 3) with clarifications and exceptions identified in Reference 2. Reference 4 provided the HNP initial status report regarding spent fuel pool instrumentation strategies. Reference 5 provided the HNP original 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 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 enclosed 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 NRC commitments. If you have any questions, please contact John Giddens at 205.992.7924.

Mr. C. R. Pierce states he is the Regulatory Affairs Director for Southern Nuclear Operating Company, is authorized to execute this oath on behalf of Southern Nuclear Operating Company and, to the best of his knowledge and belief, the facts set forth in this letter are true.

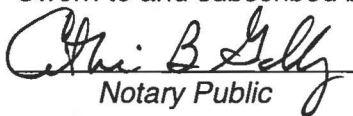
Respectfully submitted,



C. R. Pierce
Regulatory Affairs Director

CRP/JMG/GLS

Sworn to and subscribed before me this 27th day of August, 2015.



Cathi B. Gilly
Notary Public

My commission expires: 12-2018

Enclosure: Edwin I. Hatch Nuclear Plant - Units 1 and 2 Fifth Six-Month Status Report Regarding Reliable Spent Fuel Pool Instrumentation (EA-12-051)



cc: Southern Nuclear Operating Company
Mr. S. E. Kuczynski, Chairman, President & CEO
Mr. D. G. Bost, Executive Vice President & Chief Nuclear Officer
Mr. D. R. Vineyard, Vice President – Hatch
Mr. M. D. Meier, Vice President – Regulatory Affairs
Mr. D. R. Madison, Vice President – Fleet Operations
Mr. B. J. Adams, Vice President – Engineering
Mr. G. L. Johnson, Regulatory Affairs Manager – Hatch
RTYPE: CHA02.004

U. S. Nuclear Regulatory Commission
Mr. W. M. Dean, Director of the Office of Nuclear Reactor Regulations
Mr. V. M. McCree, Regional Administrator
Mr. L. D. Wert, Regional Administrator (Acting)
Mr. R. E. Martin, NRR Senior Project Manager – Hatch
Mr. D. H. Hardage, Senior Resident Inspector – Hatch
Mr. B. A. Purnell, NRR/JLD/PMB
Mr. S. R. Jones, NRR/DSS/SBPB

State of Georgia
Mr. J. H. Turner, Director – Environmental Protection Division

**Edwin I. Hatch Nuclear Plant – Units 1 and 2
Fifth Six-Month Status Report of the Implementation of the
Requirements of the Commission Order with Regard to
Reliable Spent Fuel Pool Instrumentation (EA-12-051)**

Enclosure

**Edwin I. Hatch Nuclear Plant – Units 1 and 2
Fifth Six-Month Status Report Regarding
Reliable Spent Fuel Pool Instrumentation (EA-12-051)**

**Edwin I. Hatch Nuclear Plant – Units 1 and 2
 Fifth Six-Month Status Report Regarding
Reliable Spent Fuel Pool Instrumentation (EA-12-051)**

1 Introduction

Edwin I. Hatch Nuclear Plant Units 1 and 2 developed an Overall Integrated Plan (Reference 1 of this enclosure), documenting the requirements to install reliable spent fuel pool instrumentation (SFPI), in response to Reference 2. This attachment provides an update of milestone accomplishments since submittal of 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

In addition to the submittal of status reports, the following milestone(s) directly related to SFP instrumentation implementation have been completed since the previous 6-month update, and are current as of June 30, 2015:

- Receipt of Unit 1 SFP Instrument Channel
- Receipt of Unit 2 SFP Instrument Channel
- Unit 2 1st RFO

3 Milestone Schedule Status

The table 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	Oct 2012	Complete	N/A
Submit Overall Integrated Plan	Feb 2013	Complete	N/A
Submit 6 Month Status Report	Aug 2013	Complete	N/A
Submit 6 Month Status Report	Feb 2014	Complete	N/A
Unit 1 1st RFO	Mar 2014	Complete	N/A
Develop Modifications Unit 1	Mar 2015	In Progress	Aug 2015
Submit 6 Month Status Report	Aug 2014	Complete	N/A
Submit 6 Month Status Report	Feb 2015	Complete	N/A
Unit 2 1st RFO	Mar 2015	Complete	N/A
Develop Modifications Unit 2	Apr 2015	In Progress	Nov 2015
Receipt of Unit 1 SFP Instrument Channel	Jun 2015	Complete	N/A
Submit 6 Month Status Report	Aug 2015	Complete	N/A
Complete Functional Test of Unit 1 SFP Instruments	3Q 2015	Not Started	4Q 2015
Receipt of Unit 2 SFP Instrument Channel	Nov 2015	Complete	N/A
Submit 6 Month Status Report	Feb 2016	Not Started	
Unit 1 Implementation Complete (2nd RFO)*	Mar 2016	Not Started	
Submit 6 Month Status Report	Aug 2016	Not Started	
Complete Functional Test of Unit 2 SFP Instruments	4Q 2016	Not Started	
Unit 2 Implementation Complete**	Dec 2016	Not Started	
Submit Completion Report	Dec 2016	Not Started	Feb 2017

*Full compliance after second listed refueling outage

** Full compliance by 12/31/2016 since second refueling outage is after 12/31/2016

4 Changes to Compliance Method

There are no changes to the compliance method as documented in the Overall Integrated Plan (Reference 1 of this enclosure).

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

Edwin I. Hatch Nuclear Plant Units 1 and 2 expects to comply with the order implementation date and no relief/relaxation is required at this time.

6 Open Items from Interim Staff Evaluation

The NRC has reviewed the Hatch Overall Integrated Plan for compliance with Order EA-12-051 and issued an Interim Staff Evaluation (ISE) (Reference 5) providing concurrence with the approach described in the Overall Integrated Plan. In the ISE, the NRC identified areas where additional information is required for its determination regarding the compliance with the Order. Accordingly, the additional information was provided in Enclosure 2 of Reference 6.

Although not identified by Reference 5 as an open item, SNC stated its intent in Reference 4 to provide: (1) a clearly labeled sketch depicting the elevation view of the proposed typical mounting arrangements for the portions of instrument channel equipment (e.g., fixed level sensors and/or stilling wells, and mounting brackets), (2) datum values representing Level 1, Level 2, and Level 3 as well as the top of the fuel racks, and (3) the portion of the level sensor measurement range that is sensitive to measurement of the fuel pool level, with respect to the Level 1, Level 2, and Level 3 datum points. This information was provided in Enclosure 3 of Reference 6.

7 Potential Interim Staff 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. Edwin I. Hatch Nuclear Plant Units 1 and 2 Overall Integrated Plan in Response to March 12, 2012 Commission Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051),” dated February 27, 2013.
2. NRC Order Number EA-12-051, “Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation,” dated March 12, 2012.
3. Edwin I. Hatch Nuclear Plant, Units 1 and 2 – Request for Additional Information Regarding Overall Integrated Plan for Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051) (TAC Nos. MF0721 and MF0722), dated August 1, 2013.
4. Edwin I. Hatch Nuclear Plant - Units 1 and 2 Southern Nuclear Operating Company Response to the Request for Additional Information Regarding Overall Integrated Plan for Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051), dated August 29, 2013.
5. Interim Staff Evaluation and Request for Additional Information – Hatch Nuclear Plant, Units 1 and 2 (HNP) Regarding Overall Integrated Plan (OIP) for Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051) (TAC Nos. MF0721 and MF0722), dated October 28, 2013.
6. Edwin I. Hatch Nuclear Plant – Units 1 and 2 Fourth Six-Month Status Report of the Implementation of the Requirements of the Commission Order with Regard to Reliable Spent Fuel Pool Instrumentation (EA-12-051) including an enclosure with the response to Reference 5 Request for Additional Information, dated February 26, 2015.