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February 26, 2014

Docket Nos.: 50-321  
50-366

NL-14-0184

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

Edwin I. Hatch Nuclear Plant – Units 1 and 2  
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-12-051), 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.

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 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 second 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.

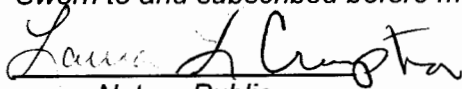
Respectfully submitted,



C. R. Pierce  
Regulatory Affairs Director

CRP/JMG/GS

Sworn to and subscribed before me this 26 day of February, 2014.



Laura L. Crisp  
Notary Public

My commission expires: 10/8/2017

Enclosures: Edwin I. Hatch Nuclear Plant - Units 1 and 2  
Second 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)

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. B. L. Ivey, Vice President – Regulatory Affairs  
Mr. D. R. Madison, Vice President – Fleet Operations  
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Mr. E. Leeds, Director of the Office of Nuclear Reactor Regulations

Mr. V. M. McCree, Regional Administrator

Mr. R. E. Martin, NRR Senior Project Manager – Hatch

Mr. E. D. Morris, 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, Environmental Director Protection Division

**Edwin I. Hatch Nuclear Plant – Units 1 and 2  
Second 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  
Second 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)**

**Edwin I. Hatch Nuclear Plant – Units 1 and 2  
 Second 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)**

**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 (SFP) instrumentation, 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 development of the Overall Integrated Plan (Reference 1 of this enclosure), and are current as of December 31, 2013:

- None

**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 (see Sec. 2)	N/A
Unit 1 1st RFO	Mar 2014	Not Started	
Develop Modifications Unit 1	Jun 2014	Not Started	
Submit 6 Month Status Report	Aug 2014	Not Started	
Submit 6 Month Status Report	Feb 2015	Not Started	
Receipt of Unit 1 SFP Instrument Channel	Feb 2015	Not Started	
Unit 2 1st RFO	Mar 2015	Not Started	
Develop Modifications Unit 2	Apr 2015	Not Started	
Submit 6 Month Status Report	Aug 2015	Not Started	
Complete Functional Test of Unit 1 SFP Instruments	3Q 2015	Not Started	
Receipt of Unit 2 SFP Instrument Channel	Nov 2015	Not Started	
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	

Enclosure to NL-14-0184  
Second Six-Month Status Report of SFPI OIP Implementation

Unit 2 Implementation Complete**	Dec 2016	Not Started	
Submit Completion Report	Dec 2016	Not Started	

\*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**

As discussed with the NRC staff, the Interim Staff Evaluation (ISE) Open Items for SFP Instrumentation are the only remaining issues to date and, therefore, supersede the RAI response from August 29, 2013. The NRC provided fifteen (15) requests for additional information (RAIs) by letter on October 28, 2013. These RAIs will be addressed by separate letter before September 30, 2015.

#### **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. “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.