

Charles R. Pierce
Regulatory Affairs Director

Southern Nuclear
Operating Company, Inc.
40 Inverness Center Parkway
Post Office Box 1295
Birmingham, AL 35201

Tel 205.992.7872
Fax 205.992.7601



A SOUTHERN COMPANY

August 27, 2015

Docket Nos.: 50-321
50-366

NL-15-1157

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
Mitigation Strategies for Beyond-Design-Basis External Events (EA-12-049)

References:

1. NRC Order Number EA-12-049, Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events, dated March 12, 2012.
2. NRC Interim Staff Guidance JLD-ISG-2012-01, Compliance with Order EA-12-049, Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events, Revision 0, dated August 29, 2012.
3. NEI 12-06, Diverse and Flexible Coping Strategies (FLEX) Implementation Guide, Revision 0, dated August 2012.
4. Edwin I. Hatch Nuclear Plant - Units 1 and 2 Overall Integrated Plan in Response to Commission Order with Regard to Mitigation Strategies for Beyond-Design-Basis External Events (EA-12-049), dated February 27, 2013.
5. Edwin I. Hatch Nuclear Plant- Units 1 and 2 Third Six-Month Status Report of the Implementation of the Requirements of the Commission Order with Regard to Mitigation Strategies for Beyond-Design-Basis External Events (EA-12-049) dated August 26, 2014, including Enclosure 2 – Hatch Units 1&2 Mitigation Strategies (FLEX) Overall Integrated Implementation Plan (OIP), Revision 4.

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 develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities in the event of a beyond-design-basis external event. 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 12-06 (Reference 3) with clarifications and exceptions identified in Reference 2. Reference 4 provided the initial HNP overall integrated plan (OIP). A revised OIP was submitted with the fall 2014 six-month update (Reference 5).

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.

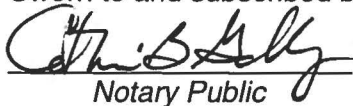
Respectfully submitted,



C. R. Pierce
Regulatory Affairs Director

CRP/JMG/GLS

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


Notary Public

My commission expires: 1-2-2018

Enclosure: Edwin I. Hatch Nuclear Plant - Units 1 and 2 Fifth Six-Month Status Report Regarding Mitigation Strategies for Beyond-Design-Basis External Events (EA-12-049)



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. Meiers, Vice President – Regulatory Affairs
Mr. B. J. Adams, Vice President – Engineering
Mr. D. R. Madison, Vice President – Fleet Operations
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. E. E. Bowman, NRR/JLD/TSD

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
Mitigation Strategies for Beyond-Design-Basis External Events (EA-12-049)**

Enclosure

**Edwin I. Hatch Nuclear Plant – Units 1 and 2
Fifth Six-Month Status Report Regarding Mitigation Strategies for
Beyond-Design-Basis External Events (EA-12-049)**

**Edwin I. Hatch Nuclear Plant – Units 1 and 2
 Fifth Six-Month Status Report Regarding Mitigation Strategies for
Beyond-Design-Basis External Events (EA-12-049)**

1 Introduction

Edwin I. Hatch Nuclear Plant - Units 1 and 2 developed an Overall Integrated Plan (OIP) (Reference 1 of this enclosure), documenting the diverse and flexible strategies (FLEX), in response to Reference 2. Reference 5 of this enclosure provided a revised OIP in fall 2014. This enclosure 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 FLEX implementation have been completed since the previous 6-month update, and are current as of June 30, 2015:

- Unit 2 Implementation Outage
- Develop Modifications – Unit 2

3 Milestone Schedule Status

The following provides an update to Attachment 2 of the Overall Integrated Plan (Reference 5). 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
Initiate Phase 2 Equipment Procurement	Jun 2014	Complete	N/A
Submit 6 Month Status Report	Aug 2014	Complete	N/A
Perform Staffing Analysis (Phase 2)	Oct 2014	Complete	N/A
Submit 6 Month Status Report	Feb 2015	Complete	N/A
Unit 2 Implementation Outage **	Mar 2015	Complete	N/A
Develop Modifications – Unit 2	Apr 2015	In Progress	Nov 2015
Develop Strategies (Hatch Response Plan)	Jun 2015	In Progress	Dec 2015
Submit 6 Month Status Report	Aug 2015	Complete	N/A
Develop Modifications – Unit 1	Aug 2015	In Progress	Oct 2015
Develop Operational Procedure Changes	Sep 2015	In Progress	Nov 2015
Create Maintenance Procedures	Nov 2015	In Progress	
Develop Training Material	Nov 2015	In Progress	
Submit 6 Month Status Report	Feb 2016	Not Started	
Phase 2 Equipment Procurement	Mar 2016	In Progress	
Unit 1 Implementation Outage *	Mar 2016	Not Started	
Issue FSGs	Apr 2016	Not Started	Mar 2016
Implement Training	Apr 2016	In Progress	Mar 2016
Unit 1 Walk-throughs or Demonstrations	Apr 2016	Not Started	Mar 2016
Submit 6 Month Status Report	Aug 2016	Not Started	

Enclosure to NL-15-1157
 Fifth Six-Month Status Report of FLEX Implementation

Milestone	Target Completion Date	Activity Status	Revised Target Completion Date
Unit 2 Walk-throughs or Demonstrations	Dec 2016	Not Started	
Unit 2 Implement Non-Outage Mods **	Dec 2016	In Progress	
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 5).

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

Edwin I. Hatch Nuclear Plant - Units 1 and 2 expect 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

The following tables provide a summary and status of any open items documented in the Overall Integrated Plan.

Overall Integrated Plan Open Item	Status
1. Structure, content and details of the Hatch Response Plan will be determined.	SAFER Team developing Hatch Response Plan

Interim Staff Evaluation Open Items	Status
ISE was issued on February 27, 2014 (ML13364A202) with no Open Items.	N/A

7 Potential Staff Evaluation Impacts

The NRC issued an Interim Staff Evaluation (ISE) for HNP (Reference 3) with no Open Items. The ISE states that, "the NRC concludes that the licensee has provided sufficient information to determine that there is reasonable assurance that the plan, when properly implemented, will meet the requirements of Order EA-12-049 at the Edwin I. Hatch Nuclear Plant, Units 1 and 2."

8 References

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

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 Requirements for Mitigation Strategies for Beyond-Design-Basis External Events (Order Number EA-12-049), dated February 27, 2013.
2. NRC Order Number EA-12-049, Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events, dated March 12, 2012.
3. Edwin I Hatch Nuclear Plant, Units 1 and 2 – Interim Staff Evaluation Related to Overall Integrated Plan in Response to Order EA-12-049 (Mitigation Strategies) (TAC NOS. MF0712 and MF0713).
4. Edwin I. Hatch Nuclear Plant - Units 1 and 2 Response to Request for Information Pursuant to Title 10 CFR 50.54(f) Regarding Recommendations 2.1, 2.3, and 9.3, of the NTTF Review of Insights from the Fukushima Daiichi Accident, dated March 12, 2012, providing the Hatch Phase 2 On-Shift Staffing Analysis report sent October 9, 2014.
5. Edwin I. Hatch Nuclear Plant- Units 1 and 2 Third Six-Month Status Report of the Implementation of the Requirements of the Commission Order with Regard to Mitigation Strategies for Beyond-Design-Basis External Events (EA-12-049) dated August 26, 2014, including Enclosure 2 – Hatch Units 1 & 2 Mitigation Strategies (FLEX) Overall Integrated Implementation Plan (OIP), Revision 4.