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

Edwin I. Hatch Nuclear Plant Units 1 and 2  
Report of Changes to Emergency Plan and Summary of 50.54(q) Analysis

Ladies and Gentlemen:

In accordance with 10 CFR 50.54(q)(5) and 10 CFR 72.44(f), Southern Nuclear Operating Company (SNC) hereby submits descriptions of changes to the emergency plan and a summary of the analysis demonstrating that the changes do not reduce the effectiveness of the plan. The emergency plan continues to meet the requirements in 10 CFR 50 Appendix E and the planning standards of 10 CFR 50.47(b). A description of the changes and a summary of the 50.54(q) analysis is enclosed.

This letter contains no NRC commitments. If you have any questions, please contact Ken McElroy at (205) 992-7369.

Respectfully submitted,

J. J. Hutto  
Regulatory Affairs Director

jjh/efb/cbg

Enclosure:

1. Description of Emergency Plan Changes and Summary of 50.54(q) Analysis

cc: NRC Regional Administrator, Region II  
NRC NRR Project Manager – Hatch  
NRC Senior Resident Inspector – Hatch  
Georgia - State Director of Environmental Protection Division  
SNC Records RTYPE: CHA02.004

**Edwin I. Hatch Nuclear Plant Units 1 and 2**  
**Report of Changes to Emergency Plan and Summary of 50.54(q) Analysis**

**Enclosure 1**

**Description of Emergency Plan Changes and Summary of 50.54(q) Analysis**

Description of Emergency Plan Changes and Summary of 50.54(q) Analysis

On October 10, 2017, Edwin I. Hatch Nuclear Plant (HNP) implemented the Emergency Action Level (EAL) scheme based on NEI 99-01 Revision 6 (Rev 6) that was approved by the NRC in a Safety Evaluation (SE) on March 16, 2017. At the time of approval, HNP had not yet implemented modifications, including instruments related to EAL readings, resulting from HNP's response to the Diverse and Flexible Coping (FLEX) strategies deployed in response to the NRC's Fukushima task force recommendations. However, the Rev 6 EAL scheme was approved with placeholders for the FLEX instrument readings in EALs RG2, RS2, and RA2 to be inserted later. Under this 50.54(q) emergency plan change, the actual instrument readings were inserted.

In addition, basis information was updated for Fuel Clad Barrier Potential Loss and RCS Barrier Loss for RPV Water Level 2.A. The basis information was added at the request of SNC Operations to aid operators with specific directions on restoring water level. This information is consistent with other BWR plants as determined by benchmarking and meets the intent of the NRC SE for Rev 6. The information only clarifies the existing basis information and does not change the EALs.

Basis information was also updated for Containment Barrier Loss for Primary Containment Isolation Failure 3.A. The basis information was added at the request of SNC Operations to clarify that a release path through the air volume of the wetwell is a direct release path; and that a release path through the water volume of the wetwell is not a direct release path. This clarification is also consistent with other BWR plants as determined by benchmarking and meets the intent of the NRC SE for Rev 6. The information only clarifies the existing basis information and does not change the EALs.

These changes were evaluated in accordance with 10 CFR 50.54(q)(3), and SNC determined that the changes do not reduce the effectiveness of the HNP emergency plan. The HNP emergency plan continues to meet the requirements in 10 CFR 50 Appendix E and the planning standards of 10 CFR 50.47(b).