

Lewis Sumner
Vice President
Hatch Project Support

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

Tel 205.992.7279
Fax 205.992.0341

January 28, 2000

Docket Nos. 50-321
50-366



Energy to Serve Your WorldSM

HL-5885

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

Edwin I. Hatch Nuclear Plant
FSAR and FHA Amendments

Ladies and Gentlemen:

In accordance with the provisions of 10 CFR 50.71, Southern Nuclear Operating Company (SNC) hereby submits 1 signed original and 10 copies of this amendment to the Final Safety Analysis Reports (FSARs) (Revision 18A) and the Fire Hazards Analysis and Fire Protection Program (FHA) (Revision 15A) for Plant Hatch Units 1 and 2.

Enclosed FSAR amendment 18A primarily consists of changes to improve the accuracy, completeness, and quality of the FSARs consistent with the requirements of 10 CFR 50.71. These changes were prepared as part of the ongoing Plant Hatch FSAR upgrade program.

In accordance with NEI 98-03 Revision 1, section A6, SNC hereby reports the following substantial information removed from the Unit 1 and Unit 2 FSARs in amendment 18A:

- Unit 1 FSAR Chapter 3, Reactor, and Unit 2 FSAR Chapter 4, Reactor, have been combined, with redundant and obsolete information removed. As such, Unit 1 FSAR Chapter 3 is deleted in its entirety, and the combined information concerning fuel design, reactivity control systems, and reactor internals is contained in Unit 2 FSAR Chapter 4. This change is consistent with the virtually identical system designs, and similar nuclear and thermal-hydraulic characteristics of the two units.
- The technical information in Unit 1 FSAR section 2.3, Meteorology, and Appendix E, Off-Gas Release Rate Limit Calculations, has been consolidated into Unit 2 FSAR section 2.3, Meteorology, and Chapter 11, Radioactive Waste Management, with redundant and obsolete information removed. This change is consistent with the common applicability to both Unit 1 and 2 of site meteorological information and the common methodology used to estimate releases of radioactive gaseous effluents during normal plant operation.
- The technical information in Unit 1 FSAR Appendix M, Reactor Vessel Overpressure Protection, has been consolidated into Unit 2 Supplement 5A, Summary Technical Report of Reactor Vessel Overpressure Protection, with redundant and obsolete information removed. This change is consistent with the similarity of the initial overpressure analysis for the two units.

A053
1/10

U.S. Nuclear Regulatory Commission

Page 2

January 28, 2000

- Unit 1 FSAR Appendix L, Failure-to-Scram Analysis, has been deleted in its entirety as obsolete information. The anticipated transient without scram (ATWS) event is addressed for both units in Unit 2 FSAR Chapter 15, Accident Analysis.
- Unit 1 FSAR Appendix Q, Recirculation Pump Overspeed Analysis, has been deleted in its entirety as obsolete information.

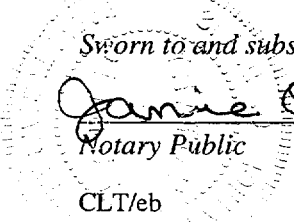
In accordance with 10 CFR 50.71(e), Mr. H. L. Sumner, Jr. states he is a Vice President of Southern Nuclear Operating Company and is authorized to execute this oath on behalf of Southern Nuclear Operating Company, and to the best of his knowledge and belief, the information contained in the enclosed FSAR and FHA amendments accurately presents changes made since the previous submittal, necessary to reflect information and analyses submitted to the Commission or prepared pursuant to Commission requirements.

Respectfully submitted,



H. L. Sumner, Jr.

Sworn to and subscribed before me this 28th day of January 2000.



Jamie O. Davis
Notary Public

My commission expires: _____

MY COMMISSION EXPIRES SEPTEMBER 17, 2000

CLT/eb

Enclosures:

1. Plant Hatch Unit 1 FSAR Amendment 18A
2. Plant Hatch Unit 2 FSAR Amendment 18A
3. Plant Hatch Units 1 and 2 FHA Amendment 15A

cc: Southern Nuclear Operating Company (w/o enclosures)
Mr. P. H. Wells, Nuclear Plant General Manager
SNC Document Management (R-Type A02.001)

U. S. Nuclear Regulatory Commission, Washington, D. C.
Mr. L. N. Olshan, Licensing Project Manager - Hatch

U. S. Nuclear Regulatory Commission, Region II
Mr. L. A. Reyes, Regional Administrator
Mr. J. T. Munday, Senior Resident Inspector - Hatch

State of Georgia (w/o enclosures)
Mr. L.C. Barrett, Commissioner - Department of Natural Resources