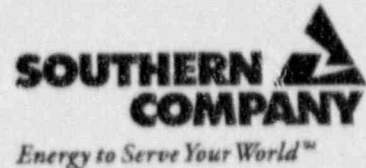


Lewis Sumner
Vice President
Hatch Project Support

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August 8, 1997

Docket Nos. 50-321
50-366

HL-5413

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

Edwin I. Hatch Nuclear Plant
Request for License Amendment
Extended Power Uprate Operation

Gentlemen:

In accordance with the provisions of 10 CFR 50.90, Southern Nuclear Operating Company (SNC) hereby requests changes to Operating License Nos. DPR-57 and NFP-5, and Appendices A thereto for the Edwin I. Hatch Nuclear Plant Units 1 and 2, respectively. The proposed changes allow Plant Hatch to operate at an uprated power level of 2763 MWt which represents a power level increase of 8%.

This proposal is very similar in format and content to the Plant Hatch 5% power uprate proposal which was reviewed and approved by the NRC by letter dated August 31, 1995 (Ref. 1). The 5% power uprate was implemented following the Unit 2 Fall 1995 outage and the Unit 1 Spring 1996 outage. Both units have operated well at the 2558 MWt power level.

Enclosure 1 contains a detailed description of the specific proposed changes necessary for extended power uprate operation and the technical bases for the changes. Enclosure 2 provides information supporting the determination that the proposed changes do not involve a significant hazards consideration.

In accordance with the NRC's position on extended power uprate (Ref. 3) and in compliance with the requirements of 10 CFR 51.41, Enclosure 3 provides detailed information concerning the environmental effects of Plant Hatch extended power uprate and demonstrates that the proposed action has no individual or cumulative adverse effect upon the human environment. This information is provided to aid the Commission in complying with section 102(2) of the National Environmental Policy Act.

Change: LTR ENCL
PDR 1 w/o
pnp



AP01

Enclosure 4 provides the page change instructions and the proposed revised Technical Specifications and Operating License pages. The corresponding marked-up Technical Specifications and Operating License pages follow Enclosure 4. Several of the Technical Specifications pages for Unit 1 reflect an approved but not implemented amendment and a proposed amendment. As indicated on the page change instructions, some of the revised Technical Specifications pages reflect the revisions approved by the NRC in Amendment 205, Power Range Neutron Monitor Retrofit, which will be issued prior to the Unit 1 Fall 1997 Outage. Also, the current P/T limit figures and the proposed P/T limit figures provided by letter dated April 29, 1997, are included in the marked-up Technical Specifications pages. The proposed figures will likely be approved and issued prior to approval and issuance of the extended power uprate proposed changes. For information purposes only, the appropriate revised Bases pages and corresponding marked-up pages are also included.

Enclosure 5 provides a summary of the expected plant modifications resulting from implementation of extended power uprate at Plant Hatch. This summary of relatively minor design changes shows extended power uprate does not involve a material alteration to the plant (i.e., no construction permit is required).

The safety analysis report, NEDC-32749P, "Extended Power Uprate Implementation for Edwin I. Hatch Nuclear Plant Units 1 and 2," prepared by General Electric Nuclear Energy (GENE), Bechtel, and Southern Company to support this license amendment request is provided in Enclosure 6. The analysis and evaluations were completed using the guidelines in GENE Topical Report (LTR) NEDC-32424P (Ref. 2), which received NRC approval by letter dated February 8, 1996 (Ref. 3). Enclosure 7 provides GE's affidavit for NEDC-32749P. Generic evaluations performed in support of extended power uprate are addressed in GENE LTR NEDC-32523P (Ref. 4), which is currently under NRC review.

By letter dated April 25, 1997, SNC provided the NRC an implementation schedule for power uprate and a technical justification supporting a 13-month NRC review schedule (Ref. 5). The Fall 1998 Unit 2 outage is scheduled to begin September 6, 1998. SNC requests approval of the proposed changes for both Units 1 and 2 by September 1, 1998. The proposed Unit 2 license amendment should become effective upon startup in Cycle 15. Plant Hatch Unit 1 is scheduled to implement power uprate modifications during the Spring 1999 outage. Therefore, the proposed Unit 1 license amendment should become effective upon startup in Cycle 19.

By letters dated April 17, 1997 (Ref. 6) and May 30, 1997 (Ref. 7), SNC provided the NRC supporting documentation relative to extended power uprate. Reference 6 provided information on a revised radiological dose analysis for the design basis loss-of-coolant accident (LOCA). Reference 7 provided a revised SAFER/GESTR-LOCA analysis which

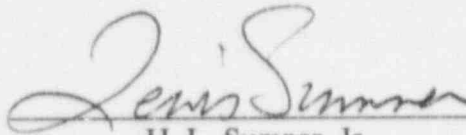
demonstrated conformance to the emergency core cooling system acceptance criteria specified in 10 CFR 50.46.

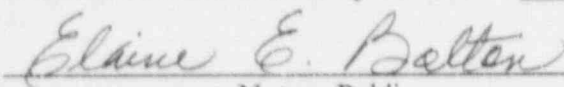
In accordance with the requirements of 10 CFR 50.91, a copy of this letter and all applicable enclosures will be sent to the designated State official of the Environmental Protection Division of the Georgia Department of Natural Resources.

Mr. H. L. Sumner, Jr. states he is 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 facts set forth in this letter are true.

Southern Nuclear Operating Company

By:


H. L. Sumner, Jr.

Sworn to and subscribed before me this 8th day of August 1997.

Notary Public

Commission Expiration Date: 8-3-1999

GKM/eb

References:

1. NRC letter, from K. N. Jabbour to J. T. Beckham, Jr., "Issuance of Amendments - Edwin I. Hatch Nuclear Plant Units 1 and 2," TAC Nos. M91077 and M91078, dated August 31, 1995.
2. NEDC-32424P, "Generic Guidelines for General Electric Boiling Water Reactor Extended Power Uprate," February 1995.
3. NRC letter from D. M. Crutchfield to G. L. Sozzi (GE), "Staff Position Concerning GE BWR Extended Power Uprate Program," TAC No. M91680, dated February 8, 1996.

References: (Continued)

4. NEDC-32523P, "Generic Evaluations for General Electric Boiling Water Reactor Extended Power Uprate," Supplement 1, Volumes 1 and 2, March 1996 and June 1996.
5. SNC letter HL-5354 from H. L. Sumner, Jr. to NRC, "Review Schedule for Plant Hatch Extended Power Uprate," dated April 25, 1997.
6. SNC letter HL-5356 from H. L. Sumner, Jr. to NRC, "Revised Post-LOCA Doses," dated April 17, 1997.
7. SNC letter HL-5366 from H. L. Sumner, Jr. to NRC, "Request to Revise Technical Specifications - Changing Power Supply to LPCI Valve Load Centers," dated May 30, 1997.

Enclosures:

1. Bases for Change Request
2. 10 CFR 50.92 Evaluation
3. Environmental Assessment
4. Page Change Instructions
5. Summary of Plant Modifications for Extended Power Uprate Implementation
6. GENE LTR NEDC-32749P, "Extended Power Uprate Safety Analysis Report for Edwin I. Hatch Plant Units 1 and 2," July 1997.
7. GE Affidavit for NEDC-32749P

cc: Southern Nuclear Operating Company
Mr. P. H. Wells, Nuclear Plant General Manager
NORMS

U.S. Nuclear Regulatory Commission, Washington, D.C.
Mr. N. B. Le, Project Manager - Hatch

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

State of Georgia
Mr. J. D. Tanner, Commissioner - Department of Natural Resources