May 9, 1997

Mr. H. L. Sumner, Jr.
Vice President
Southern Nuclear Operating
Company, Inc.
P. O. Box 1295
Birmingham, Alabama 35201-1295

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION ON THE SPENT FUEL POOL REGULATORY ANALYSIS - EDWIN I. HATCH NUCLEAR PLANT, UNITS 1 AND 2 (TAC NOS. M98303 AND M98304)

Dear Mr. Sumner:

As a followup to our meeting with your staff at the Hatch site on April 9 and 10, 1997, we find that additional information, in response to the comments outlined in the enclosure, is needed to enable the NRC staff to complete its review of the spent fuel pool regulatory analysis for the Hatch Units 1 and 2.

We request that you provide the additional information within 30 days from the date of this letter. If you have any questions, please contact me at (301) 415-1496.

Sincerely,

ORIGINAL SIGNED BY:

Kahtan N. Jabbour, Senior Project Manager
Project Directorate II-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket Nos. 50-321 and 50-366

Enclosure: As stated

cc w/encl: See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

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Edwin I. Hatch Nuclear Plant
Units 1 and 2

cc:
Mr. Ernest L. Blake, Jr.
Shaw, Pittman, Potts and Trowbridge
2300 N Street, NW.
Washington, DC 20037

Mr. D. M. Crowe
Manager, Licensing
Southern Nuclear Operating
Company, Inc.
P. O. Box 1295
Birmingham, Alabama 35201-1295

Resident Inspector
U.S. Nuclear Regulatory Commission
11030 Hatch Parkway North
Baxley, Georgia 31513

Regional Administrator, Region II
U.S. Nuclear Regulatory Commission
Atlanta Federal Center
61 Forsyth Street, S.W., Suite 23T85
Atlanta, Georgia 30303

Mr. Charles H. Badger
Office of Planning and Budget
Room 610
270 Washington Street, SW.
Atlanta, Georgia 30334

Harold Reheis, Director
Department of Natural Resources
205 Butler Street, SE., Suite 1252
Atlanta, Georgia 30334

Steven M. Jackson
Senior Engineer - Power Supply
Municipal Electric Authority
of Georgia
1470 Riveredge Parkway, NW
Atlanta, Georgia 30328-4684

Mr. Thomas P. Mozingo
Program Manager
Nuclear Operations
Oglethorpe Power Corporation
2100 East Exchange Place
P. O. Box 1349
Tucker, Georgia 30085-1349

Charles A. Patrizia, Esquire
Paul, Hastings, Janofsky & Walker
10th Floor
1299 Pennsylvania Avenue
Washington, DC 20004-9500

Chairman
Appling County Commissioners
County Courthouse
Baxley, Georgia 31513

Mr. W. G. Harriston, III
President and Chief Executive
Officer
Southern Nuclear Operating
Company, Inc.
P. O. Box 1295
Birmingham, Alabama 35201-1295

Mr. J. D. Woodard
Executive Vice President
Southern Nuclear Operating
Company, Inc.
P. O. Box 1295
Birmingham, Alabama 35201-1295

Mr. P. W. Wells
General Manager, Edwin I. Hatch
Nuclear Plant
Southern Nuclear Operating
Company, Inc.
11030 Hatch Parkway North
Baxley, Georgia 31513

REQUEST FOR ADDITIONAL INFORMATION

EDWIN I. HATCH NUCLEAR PLANT, UNITS 1 AND 2

DOCKET NOS. 50-321 AND 50-366

(1) For those components in the Unit 1 Reactor Building (RB), does your Environmental Qualification (EQ) list (Central File) include mild environment safety-related equipment? If not, it is conceivable that safety-related equipment designated "mild" and located in the Unit 1 RB could be exposed to an environment that exceeds their design due to a sustained pool boil. This equipment may have been overlooked because they were not identified using the search criteria you described (i.e., if they were mild environment equipment, they may not be on you EQ list).

(2) What is the function of the DP switch(es) 1(2)T46-DPT-N005A(&D) (other than to provide indication to the control room recorders)? If the switch were to fail, would their failure affect other adjacent safety-related equipment (electrically)? Is adequate fault protection provided on the equipment's power supply circuit in the event of an electrical failure?

(3) Will the spent fuel pool (SFP) boiling produce high radiation levels on the refueling floor (RF) before significant inventory boil-off? If so, what is the expected source of high radiation levels on the RF during a boiling event (prior to any significant lowering of pool level), and what radiation levels do you expect at various points during a pool boiling event (in mr/hr)?

(4) Standby gas treatment system equipment may be required to transport hot, humid RF vapor during a pool boiling event. Provide a discussion of the performance of the standby gas treatment system (SGTS) under boiling spent fuel pool conditions. Include the length of time the system could be expected to function assuming that the recovery of spent fuel cooling systems are uncertain (i.e., extended feed and boil cooling).

(5) Provide a discussion of the capability of the building drain collection system(s) under SFP boiling conditions. For ease of analysis and conservatism, assume that 100 percent of boil-off condenses on the RB walls and is directed to the floor drainage system. Where does this drainage system collect? What is the capacity of the sump, pump, and the processing system? Does the pump have a safety-related power supply? If the pump were to fail (or be overwhelmed), is there any safety-related equipment in the vicinity that may experience flooding? How long would it take to threaten this equipment?

Enclosure