



50-424/425

UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

December 14, 1999

Mr. J. B. Beasley, Jr.  
Vice President  
Southern Nuclear Operating  
Company, Inc.  
Post Office Box 1295  
Birmingham, Alabama 35201-1295

SUBJECT: VOGTLE ELECTRIC GENERATING PLANT, UNITS 1 AND 2 RE: RESPONSE  
TO GENERIC LETTER 96-06, "ASSURANCE OF EQUIPMENT OPERABILITY  
AND CONTAINMENT INTEGRITY DURING DESIGN BASIS ACCIDENT  
CONDITIONS" (TAC NOS. M96881 AND M96882)

Dear Mr. Beasley

By letters dated January 27, 1997, and August 30, 1999, Southern Nuclear Operating Company, formerly Georgia Power Company (licensee), submitted its response to Generic Letter GL 96-06, "Assurance of Equipment Operability and Containment Integrity During Design Basis Accident Conditions." The following evaluation addresses the issue of thermally-induced pressurization of piping runs penetrating the containment. The water hammer and two phase flow issues will be addressed in separate correspondence.

In its submittal of January 27, 1997, the licensee identified 15 penetrations as vulnerable to a water solid volume that may be subjected to an increase in pressure due to heating of trapped fluid. The licensee implemented controls to assure that two of the lines are only isolated while the fluid is hot during normal operation. For the remaining 13 lines, the licensee determined that the affected penetrations are operable based on piping plastic deformation and potential leakage through packing/valve seating surfaces. For its long-term corrective actions, the licensee committed to install any required modifications to the system or implement changes to system operations during the refueling outages of Units 1 and 2 in fall 1997, and spring 1998, respectively.

In response to the staff's request for additional information of July 27, 1999, the licensee, in its submittal of August 30, 1999, provided applicable design criteria for the piping and valves on four of the penetrations including the pressure at which each valve was determined to lift off its seat or leak, and the maximum calculated stress in the affected piping. For the remaining nine penetrations, the licensee stated that it had installed pressure relief valves on four penetrations, and revised operating procedures for five penetrations to drain any fluid from the piping prior to returning the unit to operation, thus, ensuring that thermally-induced overpressurization will not occur under accident conditions. The staff finds your evaluation reasonable and acceptable.

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The staff concludes that the licensee's evaluation and corrective action provide an acceptable resolution for the issue of thermally-induced pressurization of piping runs penetrating the containment.

Sincerely,

Original signed by:

Ramin Assa, Project Manager, Section 1  
Project Directorate II  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket Nos. 50-424 and 50-425

cc: See next page

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The staff concludes that the licensee's evaluation and corrective action provide an acceptable resolution for the issue of thermally-induced pressurization of piping runs penetrating the containment.

Sincerely,

A handwritten signature in black ink, appearing to read "Ramin Assa". The signature is fluid and cursive, with a long horizontal stroke extending to the left.

Ramin Assa, Project Manager, Section 1  
Project Directorate II  
Division of Licensing Project Management  
Office of Nuclear Reactor Regulation

Docket Nos. 50-424 and 50-425

cc: See next page

Vogtle Electric Generating Plant

cc:

Mr. J. A. Bailey  
Manager, Licensing  
Southern Nuclear Operating  
Company, Inc.  
P. O. Box 1295  
Birmingham, Alabama 35201-1295

Mr. J. Gasser  
General Manager, Vogtle Electric  
Generating Plant  
Southern Nuclear Operating  
Company, Inc.  
P. O. Box 1600  
Waynesboro, Georgia 30830

Office of Planning and Budget  
Room 615B  
270 Washington Street, SW.  
Atlanta, Georgia 30334

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

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

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

Attorney General  
Law Department  
132 Judicial Building  
Atlanta, Georgia 30334

Mr. R. D. Barker  
Program Manager  
Fossil & 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

Arthur H. Domby, Esquire  
Troutman Sanders  
NationsBank Plaza  
600 Peachtree Street, NE.  
Suite 5200  
Atlanta, Georgia 30308-2216

Resident Inspector  
Vogtle Plant  
8805 River Road  
Waynesboro, Georgia 30830

Office of the County Commissioner  
Burke County Commission  
Waynesboro, Georgia 30830