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USNRC REGION II
ATLANTA, GEORGIA

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J. T. Beckham, Jr.
Vice President and General Manager
Nuclear Generation



Georgia Power

the southern electric system

NED-83-330

June 2, 1983

U. S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region II - Suite 2900
101 Marietta Street, NW
Atlanta, Georgia 30303

REFERENCE:
I&E HQ: ELJ
50-321/50-366
I&E Bulletin
81-03

ATTENTION: Mr. James P. O'Reilly

GENTLEMEN:

Mr. E. L. Jordan's (Director, Division of Engineering and Quality Assurance, Office of Inspection and Enforcement) letter dated December 10, 1982, requested Georgia Power Company to provide information which was not included in our initial response to I&E Bulletin 81-03. Our letter dated January 18, 1983, requested an extension for our response until the Unit 2 refueling outage. We hereby submit the following information in response to that request.

As was indicated in our letter dated May 22, 1981, Corbicula Sp. (Asiatic clam) has been found previously in the Altamaha River. River water is used at Plant Edwin I. Hatch for service water and circulating water systems. The fire protection system uses water from a deep well and is, therefore, not susceptible to clam infiltration. The Mytilus Sp. (Mussel) is a salt water species and is not present in the Altamaha River in the vicinity of Plant Hatch.

During the recent refueling outage, a visual inspection was performed for a representative sample of the Unit 2 piping and systems which contain service or circulating water. The scope of this inspection included the following: all condenser water boxes (4), main turbine oil coolers, main generator hydrogen coolers, Alterex cooler, generator stator water coolers, turbine hydraulic control system coolers and the Residual Heat Removal Heat Exchangers. A small amount of silt and organic detritus was found, but there was no evidence of clam infestation. We were unable to visually inspect the drywell fans chiller cooling coils due to their physical configuration. However, correct flow rates through the system were verified.

Adult clams, if present would be stopped by screens at the intake structure. Due to the small size of clam larvae, the potential for intrusion is a constant possibility. Larvae are controlled by chlorination of the service water and circulating water systems. The service water systems usually attain about a 0.3 ppm chlorine residual. Circulating water systems are presently chlorinated up to three times a day for approximately

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thirty minutes each time and usually attain a maximum residual of 0.2 ppm chlorine. The backup to chlorination is mechanical cleaning methods. Physical means of detection include periodic inspections and routine dismantling for maintenance and repairs. If any organisms or organic fouling are present, appropriate action will be taken. The existing program appears to be effective in detecting any biological fouling and its use will be continued.

Instrumentation to measure differential pressure (dP) and differential temperature (dT) exists on all of the systems noted above except the drywell fan chiller cooling coil. The main condenser water boxes' dP is normally displayed in the Control Room. Measurements of dP and dT across the other systems are taken routinely. At the time of operation prior to the current outage the measured differentials were noted to be normal for all systems.

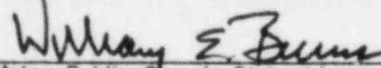
If you have any questions in this regard, please contact this office.

J. T. Beckham, Jr. states that he is Vice President of Georgia Power Company and is authorized to execute this oath on behalf of Georgia Power Company, and that to the best of his knowledge and belief the facts set forth in this letter are true.

GEORGIA POWER COMPANY

By: 
J. T. Beckham, Jr.

Sworn to and subscribed before me this 2nd day of June, 1983.


Notary Public, Georgia, State at Large
My Commission Expires Aug. 26, 1986

Notary Public

CT/mb

Enclosure

xc: H. C. Nix, Jr.

Senior Resident Inspector

J. F. Stolz - Nuclear Reactor Regulation, ORB-4, NRC, Washington, DC
Director, Office of Inspection and Enforcement, NRC, Washington, DC