

Georgia Power Company  
40 Inverness Center Parkway  
Post Office Box 1295  
Birmingham, Alabama 35201  
Telephone (205) 877-7279

J. T. Beckham, Jr.  
Vice President - Nuclear  
Hatch Project

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Docket No. 50-321

HL-5278

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

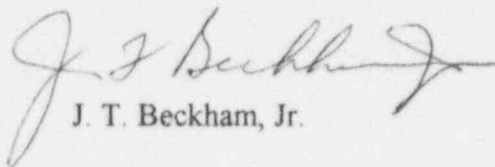
Edwin I. Hatch Nuclear Plant - Unit 1  
Post Accident Monitoring Instrumentation Report  
Position Indicating Light on Main Steam Isolation Valve  
Inoperable for Greater Than 30 Days

Gentlemen:

In accordance with the requirements of Plant Hatch Unit 1 Technical Specifications 3.3.3.1, Required Action B.1, Georgia Power Company is submitting the following post accident monitoring instrumentation report regarding a failed Main Steam Isolation Valve position indicating light.

Please contact this office if you have any questions.

Sincerely,



J. T. Beckham, Jr.

OCV/eb

Enclosure

cc: Georgia Power Company  
Mr. H. L. Sumner, Nuclear Plant General Manager  
NORMS

U.S. Nuclear Regulatory Commission, Washington, D.C.  
Mr. K. Jabbour, Licensing Project Manager - Hatch

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

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## Enclosure

### Edwin I. Hatch Nuclear Plant - Unit 1 Post Accident Monitoring Instrumentation Report Position Indication Light on Main Steamline Isolation Valve Inoperable for Greater than Thirty Days

#### A. REQUIREMENT FOR REPORT

This report is required by Unit 1 Technical Specifications Limiting Condition for Operation 3.3.3.1, Required Action B.1. This required action must be entered if the plant has less than the required number of operable post accident instrumentation channels for a period greater than 30 days. When 30 days have elapsed, the required action indicates that a report be submitted to the Nuclear Regulatory Commission within the following 14 days per Unit 1 Technical Specifications section 5.6.6 and 10 CFR 50.4. In this event, the position indication light for inboard main steamline isolation valve (MSIV) 1B21-F022D, required by Unit 1 Technical Specifications, Table 3.3.3.1-1, item 6, was inoperable for a period greater than 30 days.

#### B. DESCRIPTION OF EVENT

On 12/03/96, Unit 1 was in the Run mode at a power level of 2558 CMWT (100 percent rated thermal power). At that time, 30 days had elapsed since the position indication light for MSIV 1B21-F022D had been declared inoperable. It was declared inoperable because its red open indication remained illuminated even when the valve was closed.

#### C. CAUSE OF EVENT

This event appears to be the result of a limit switch that is out of proper adjustment for power conditions. The event was discovered during the plant response to a 10 CFR 21 notification concerning solenoid-operated pneumatic valves which are used on the Unit 1 MSIVs. The solenoid valve is one of two pneumatic valves on each MSIV which control closing and opening of the MSIVs. Since the solenoid valve problem manifests itself at the elevated temperatures experienced at power in the form of lengthened closing times on affected MSIVs, the plant tested for the presence of the problem by timing each MSIV during its closure stroke. The test required use of position indication lights to mark the completion of the close stroke. During this testing, three of the eight MSIVs required some degree of adjustment in the limit switches controlling the position lights to get the red "open" lights to extinguish when the MSIVs closed. Two of these occurred on outboard valves which are accessible during power operation. These were adjusted and the indication problem no longer occurs. Subsequent tests using repaired position indication lights showed that the MSIVs closed in the required band of three to five seconds. However, one of the position indication lights needing adjustment was on 1B21-F022D which is an inboard valve (i.e.,

located inside the primary containment) and thus is not accessible during power operation. Hence, the position indication light could not be adjusted so as to be usable in testing this MSIV.

Plant operators observed the rate of decrease in steam flow on each main steamline as each MSIV was closed during testing, including the line which had the MSIV with the inoperable position indication light. No difference was observed in the time required to achieve indication of zero steam flow between the lines with operable position indication and the one line which had inoperable position indication. Based on these observations, therefore, it was concluded that the MSIV with the inoperable position indication light was actually going closed in the required time and the primary containment isolation function was operable. This led to the further conclusion that the condition referenced in the 10 CFR 21 notification concerning the solenoid valve does not exist at Plant Hatch.

#### D. PLANT RESPONSE TO THIS EVENT

1. Preplanned Alternate Method: The subject position indication light has no automatic safety function and serves no purpose other than to provide operators with an indication whether the MSIV is open. The purpose of the MSIV, in turn, is to shut off its respective main steam line, thereby isolating its primary containment penetration. As explained above, testing of this MSIV showed it is operable with respect to its PCIV function. However, should conditions arise requiring a Group 1 primary containment isolation, the redundant MSIV in the same penetration will provide additional assurance that the affected primary containment penetration is isolated as required. The position indication light on the outboard MSIV in this same penetration is operable. In addition, plant operators are trained to confirm proper penetration isolation by verifying closure of the redundant valve and by using other indications such as zero steam flow.
2. Schedule for Restoring Instrumentation to Operable Status: This position indicating light will be adjusted and restored to operable status during the next outage of sufficient duration. Currently this is forecasted to be the next Unit 1 refueling outage, scheduled to begin in October 1997 and to be completed in November 1997.