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

PLANT HATCH - UNIT 2  
NRC DOCKET 50-366  
OPERATING LICENSE NPF-5  
SPECIAL REPORT 2-92-005  
BATTERY POWERED EMERGENCY LIGHTING UNIT  
INOPERABLE FOR A PERIOD GREATER THAN 72 HOURS

Gentlemen:

In accordance with the requirements of the Unit 2 Technical Specification and Fire Hazards Analysis, Georgia Power Company is submitting the enclosed Special Report concerning an event where a battery powered lighting unit was inoperable for a period greater than 72 hours.

Sincerely,

J. T. Beckham, Jr.

JKB/cr

Enclosure

cc: Georgia Power Company  
Mr. H. L. Sumner, General Manager - Nuclear Plant  
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. L. D. Wert, Senior Resident Inspector - Hatch

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## ENCLOSURE

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### A. REQUIREMENT FOR REPORT

This report is required by Unit 2 Technical Specifications section 6.9.2. This section of the Technical Specifications states that Special Reports for fire protection equipment operating and surveillance requirements shall be submitted as required by the Fire Hazards Analysis (FHA) and its Appendix B requirements.

Appendix B, section 1.9.1 of the FHA states that emergency lighting equipment must be operable at all times. The Action Statement states that in the event a battery powered emergency lighting unit is inoperable for greater than 72 hours, a Special Report must be prepared and submitted to the Commission within 30 days. In the event described in this report, a battery powered emergency lighting unit was inoperable for greater than 72 hours.

### B. UNIT STATUS AT TIME OF EVENT

On 11/5/92, Unit 2 was in cold shutdown near the end of the tenth refueling outage.

### C. DESCRIPTION OF EVENT

On 11/2/92, non-licensed maintenance personnel were performing surveillance procedure 42SV-FPX-003-0S, "Emergency Lighting Surveillance." The procedure provides guidelines for the inspection and functional testing of the remote shutdown path emergency lighting units which implement the requirements of the fire protection equipment operating and surveillance requirements of FHA Appendix B, Sections 2.9.1.a and 2.9.1.b. This is accomplished by performing a monthly inspection of the physical condition of indicating lamps, battery electrolyte level, etc. An 8 hour battery discharge test is conducted on about one-twelfth of the lighting units approximately every 31 days, such that all the lighting units are tested at least once per year. During performance of the monthly operability test on lighting unit 2R42-E113, the light failed to illuminate. Deficiency Card (DC) 2-92-3687 was written to document the failure of the subject light and to initiate corrective actions. Limiting Condition for Operation (LCO) 2-92-905 was initiated 11/2/92 at 1229 CST to track corrective actions. However, the light could not be restored to operable status within the 72 hour period allowed by FHA Appendix B, Section 1.9.1. Therefore, DC 2-92-3748 was

## ENCLOSURE (Continued)

### Special Report 2-92-005 BATTERY POWERED EMERGENCY LIGHTING UNIT INOPERABLE FOR A PERIOD GREATER THAN 72 HOURS

written to document the fact that lighting unit 2R42-E113 remained inoperable for greater than 72 hours. Following the completion of repairs on the failed light and the satisfactory completion of testing per the procedure, the light was restored to operable status on 11/6/92 at 0110 CST and LCO 2-92-905 was terminated.

#### D. CAUSE OF EVENT

The cause of this event was the failure of battery powered emergency lighting unit 2R42-E113 to pass a regularly scheduled surveillance. Efforts were made to repair and restore the affected light to an operable status within the 72 hour period, and pursuant to this, a new emergency lighting unit was installed. However, the new unit is required to be charged, functionally tested by a discharge test, and recharged after the test. Due to the time involved in effecting repairs (i.e., 24 hours for charging of the new battery unit, 8 hours of conducting a battery discharge test, 24 hours for post test recharging and some amount of time required for parts check out and repair), the subject light was restored to operable status approximately 12 hours after the required 72 hours had elapsed.

#### E. ANALYSIS OF EVENT

The battery-powered emergency lighting units are designed to provide illumination for certain areas and for pieces of equipment in the event of a fire concurrent with a loss of offsite power (LOSP). During a LOSP, the automatic load shedding function of the emergency diesel generators will disconnect power to various areas of normal plant lighting, thereby tripping the emergency lights. Lighting unit 2R42-E113 is used to illuminate the Reactor Building West Torus area below the 130' elevation.

In the event that the normal lights for the affected area are extinguished and the emergency lighting units fail to operate, plant operators can use flashlights for any required emergency operations. Procedure 34GO-OPS-030-2S, "Daily Inside Rounds" requires plant operators to carry flashlights with them during their daily rounds. Also, flashlights are available continually in the maintenance tool storage area for use during emergencies. Based on the above analysis, it is concluded that this event had no adverse impact on nuclear safety.

ENCLOSURE (Continued)

Special Report 2-92-005  
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F. CORRECTIVE ACTIONS

Battery-powered emergency lighting unit 2R42-E113 was replaced with a new unit under MWO 2-92-5693 and verified operable by performing an 8-hour battery discharge test in accordance with the requirements of the FHA Appendix B, section 2.9.1.b.