UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA STREET, N.W.
ATLANTA, GEORGIA 30323

Report No.: 50-321/85-37

Licensee: Georgia Power Company
P. O. Box 4545
Atlanta, GA 30302

Docket No.: 50-321 License No.: DPR-57

Facility Name: Hatch Unit 1

Inspection Conducted: December 26-27, 1985

Inspector: J N Gibbons 1/15/86
T. D. Gibbons Date Signed

Approved by: J E Conlon 1-15-86
T. E. Conlon, Section Chief Date Signed
Engineering Branch
Division of Reactor Safety

SUMMARY

Scope: This routine, unannounced inspection involved 13 inspector-hours on site in the areas of review of the immediate actions taken by the licensee after the flooding of the southeast diagional room of reactor building.

Results: No violations or deviations were identified.

REPORT DETAILS

1. Persons Contacted

   Licensee Employees

   *T. Greene, Deputy General Manager
   *G. A. Goode, Superintendent, Engineering
   *T. A. Seitz, Manager, Maintenance
   *R. D. Baker, Nuclear Licensing Manager
   *P. E. Fornel, QA Site Manager

   NRC Resident Inspector

   *P. Holmes-Ray, Senior Resident Inspector

   *Attended exit interview

2. Exit Interview

   The inspection scope and findings were summarized on December 27, 1985, with those persons indicated in paragraph 1 above. The inspector described the areas inspected and discussed in detail the inspection findings. The licensee did not identify as proprietary any of the materials provided to or reviewed by the inspector during this inspection.

3. Licensee Action on Previous Enforcement Matters

   This subject was not addressed in the inspection.

4. Unresolved Items

   Unresolved items were not identified during the inspection.

5. Inspector Dispatched to the Site

   The inspector was dispatched to Plant Hatch Unit 1 to examine the actions taken after the flooding incident on December 21, 1985. The inspector did not examine the cause of the incident as it was examined by other Region II inspectors. The inspector was to evaluate the actions taken to prevent further damage and the plans for restoration of electrical equipment.

6. Actions Taken After Flooding Incident

   The inspector examined the electrical maintenance work orders (MWOs) which were issued to take immediate action to prevent further damage. The major items which were flooded consisted of three large 4160 volt motors, seven motor operators for valves and various small motors, junction boxes and solenoids.

a. The three large motors are listed below with the MWO.

MPL #		MWO
E21-C001A	Core Spray (CS) Pump Motor A	1-85-7735
E11-C002A	Residual Heat Removal (RHR) Pump Motor A	1-85-7736
E11-C002C	RHR Pump Motor C	1-85-7737

The procedure used is a ONE-TIME-USE-ONLY Special Instruction number 51SP-12-21-85-1-A titled "Special Instruction for Detection of Water Damage to RHR A&C and CS A Pump Motors Following Flooding of SE Diagional". This procedure has been approved by the plant manager and the plant review board. The procedure covers the cleaning, drying, and meggering of the motors. The motors are dried using a welding machine to provide full load current through the winding at a low voltage. The motor is meggered every four hours and readings recorded. The licensee has established 16 Megohms as a minimum acceptable value. The oil system has been flushed and refilled with new oil for all three motors. When the motor exceeds the 16 Megohms criteria, the motor will be visually inspected. Then a MWO for restoring the motor will be issued. The restoration will be completed in accordance with the manufacturer's recommendations and tested to assure that they are still acceptable.

b. The limitorque operators and small motors are being evaluated by "Special Instruction for Detection of Water Damage to Limitorque Actuator Motors Following Flooding of the SE Diagional" Procedure 51SP-12-21-85-1-B. The motors were removed to the hot machine shop and baked in ovens. The limitorque operators gear case were inspected for water in the grease and in the limit switch compartments.

The inspector reviewed the MWOs for the following Limitorque operators which were being dried out. The inspector also reviewed the MWO for four small motors which had not been completed.

ID Number	MWO	Equipment
E21-F031A	1-85-7740	Core Spray "A" Pump Min. Flow Valve
E21-C002A	1-85-7741	Core Spray Jockey Pump Motor
E11-F006C	1-85-7732	RHR "C" Shutdown Cooling Suction Valve
E11-F004C	1-85-7731	RHR "C" Pump Suction Valve
E11-F004A	1-85-7734	RHR "A" Pump Suction Valve
E11-F007A	1-85-7730	RHR "A" Min. Flow Valve

E11-F006A	1-85-7738	RHR "A" Shutdown Cooling Suction Valve
E21-C002B	1-85-7746	Core Spray Jockey Pump
E41-C002-2	1-85-7728	High Pressure Coolant Injection (HPCI) Vacuum Pump
E41-C002-1	1-85-7727	Condensate Pump (HPCI)

c. The inspector reviewed the MWOs for the cleaning and drying of junction boxes on two levels which were being prepared for work. The following MWOs were reviewed.

ID Number	MWO	Equipment
R33	1-85-7799	Junction boxes - 102' Elev.
R33	1-85-7800	Junction boxes - 87 ' Elev.

d. Instrumentation

The licensee instrumentation group issued MWOs to inspect for water damage and to perform the actions necessary for preventing further damage. The licensee has identified 16 instruments with obvious damage and 20 additional instruments that will require evaluation prior to restoration.

e. Summary

The licensee has taken the immediate actions necessary to prevent further damage. The licensee is contacting the vendors to establish the necessary rework to correct and restore the equipment. The licensee will assure that the environmental qualifications are maintained. Testing of the restored equipment will be performed prior to return to service.