UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA STREET, N.W.
ATLANTA, GEORGIA 30303

Report No.: 50-400/84-32

Licensee: Carolina Power and Light Company
411 Fayetteville Street
Raleigh, NC 27602

Docket No.: 50-400 License No.: CPPR-158

Facility Name: Harris 1

Inspection Conducted: August 28-31, 1984

Inspector: M D Hunt 9/12/84
M. D. Hunt Date Signed

Approved by: T E Conlon 9/12/84
T. E. Conlon, Section Chief Date Signed
Engineering Branch
Division of Reactor Safety

SUMMARY

Scope: This routine, unannounced inspection involved 24 inspector-hours on site in the areas of 125VDC Battery System, Equipment Turnover Procedures, an Unresolved Item, and an Inspector Followup Item.

Results: No violations or deviations were identified.

REPORT DETAILS

1. Licensee Employees Contacted

*R. M. Parson, Project General Manager, Completion Assurance
*G. L. Forehand, Director QA/QC
*B. Langlois, CI Units Supervisor
*D. McGaw, Superintendent QA
*G. M. Simpson, Principal Construction Specialist
*P. Foscolo, Assistant General Project Manager
*L. Ketchum, Elect./Inst. CI Supervisor
*C. E. Ross, QA Supervisor
*H. F. Wagner, QA/QC Specialist
*M. Wallace, Construction Specialist
P. Hadel, Sr., Specialist, Maintenance
T. Halker, Electrical Foreman

Other Organization

*G. F. Cole, Vice President Daniel Construction Co. (DCC)
*C. C. Wagner, Project General Manager, DCC

NRC Resident Inspectors

*R. Prevatte
G. Maxwell

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on August 31, 1984, with those persons indicated in paragraph 1 above. The licensee acknowledged the inspection findings and took no exceptions.

3. Licensee Action on Previous Enforcement Matters

(Closed) Unresolved Item 400/84-01-01, Determine That The Number Change For Cable Reel #050-02/2A Was An Isolated Instance. The licensee issued Nonconforming Report (NCR) No. 84-023 to document that a Permanent Equipment Transfer (PET) was not issued to cover the change in reel numbers. Technical Procedure No. 07, Control, Recording and Handling of Equipment Transfer, was revised to reinforce the use of PET to document cable reel number changes. This item is closed.

(Open) Unresolved Item 400/84-29-01, Review the Duties of Construction Inspection Unit and the Electrical Engineering Group. Further discussions were held with the licensee regarding the responsibilities of the various units in regard to the modification of the Engineered Safeguards Feature (ESF) sequencing panels. In view of the fact that the licensee has elected

to make the modifications on site rather than return the panels to the manufacturer, certain acceptance criteria should be established. The licensee advised the inspector that the new and additional components that will be installed in these panels were purchased from the panel manufacturer. However, the modification activities and finished product should at least meet, if not exceed, the original specifications and manufacturer's QA program requirements. These panel modifications will be examined further during subsequent inspections.

4. Electrical (Components and Systems II)

Observation of Work and Work Activities (51054B)
Review of Quality Records (51056B)

The inspector examined portions of the Class IE 125VDC battery system. The following components were inspected:

1A-SA	Battery
1A-SB	Battery
1A-SA	Battery Charger
1B-SA	Battery Charger
1B-SA	Battery Charger
1B-SB	Battery Charger
1A-SA	125VDC Distribution Panel
1B-SB	125VDC Distribution Panel

This equipment was in operation. The inspector was advised that the equipment had been Released for Testing (RFT) approximately 18 months prior to this inspection.

During the inspection of the batteries, it was noted that the battery racks had a nonconforming condition which was identified by NCR 84-106 (Battery SA) and NCR 84-240 (Battery SB). The racks had been inspected and accepted by the Construction Inspection group. However, a followup inspection revealed that some of the braces were not properly installed. The NCRs are being evaluated to determine the extent of the problem and the reportability under 10 CFR 50.55(e).

During a review of the installation and inspection records, the inspector noted that the receiving inspection report for battery chargers 1A-SA, 1A-SB, 1B-SA and 1B-SB had not been closed due to the lack of seismic certification. This fact was documented in accordance with receiving inspection procedure #QA-7. These chargers were then released for installation, per a Conditional Release Request (Procedure QC-2), for landing, setting, grouting and electrical terminations. The inspector inquired as to the extent of the conditional release and did it include testing and operation. The inspector was informed that the test and startup supervisor makes an evaluation to determine if the equipment released on a conditional release can be tested and operated. There does not appear to be a clear cut

method for controlling the extent of operation of equipment that is conditionally released for installation. This item will be examined further during subsequent inspections and is identified as an Inspector Followup Item 400/84-32-01, Review the Procedures for Control of Turnover of Equipment and Associated Deficiencies.

The inspector reviewed copies of the preventative maintenance records performed under Procedure PM-E0024, Stationary Battery Bank Preventative Maintenance. The acceptable criteria for the specific gravity, cell temperature, and voltage were contained in the procedure to enable the inspection maintenance personnel to accept or reject the condition of the batteries as well as determining what maintenance is required. With a few minor exceptions, the procedure was found adequate.

Within the areas examined no violations or deviations were identified.

5. Inspector Followup Items (IFI)

(Closed) IFI 400/83-17-03, Control of Drawings. This IFI was written due to a concern regarding the quantity of Field Change Requests (FCR), Design Change Requests (DCN), and Permanent Waivers (PW) that had been issued against cable tray support drawings. As a result of this item, a daily report listing the number of FCRs, DCNs, and PWs closed out each day is now generated and forwarded to the Senior Resident Engineer. Further, this item resulted in the 27 support drawing being revised to include a number of outstanding FCRs, DCNs and PWs.