



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION II  
101 MARIETTA STREET, N.W.  
ATLANTA, GEORGIA 30303

Report No.: 50-400/84-15

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 Dates: April 20 - May 20, 1984

Inspection at Harris site near Raleigh, North Carolina

Inspectors: *G. F. Maxwell* *6/4/84*  
G. F. Maxwell Date Signed

*R. L. Prevatte* *6/4/84*  
R. L. Prevatte Date Signed

Approved by: *Paul R. Bemis* *6/4/84*  
Paul R. Bemis, Section Chief Date Signed  
Division of Reactor Projects

SUMMARY

Areas Inspected

This routine, announced inspection involved 116 inspector-hours on site in the areas of licensee action on previous findings; bulletins and circulars; independent inspection; electrical; welding; preoperational test program; and other activities.

Results: Of the seven areas inspected, no violations or deviations were identified.

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## REPORT DETAILS

### 1. Persons Contacted

R. A. Watson, Vice President, Harris Nuclear Project  
\*R. M. Parsons, Project General Manager  
J. L. Willis, Plant General Manager  
\*P. Foscolo, Assistant Project General Manager  
\*N. J. Chiangi, Manager, QA/QC Harris Plant  
\*L. I. Loflin, Manager, Harris Plant Engineering Support  
B. Van Metre, Manager, Harris Plant Maintenance  
C. S. Hinnant, Manager, Startup  
J. M. Collins, Manager, Operations  
\*G. L. Forehand, Director QA/QC  
C. S. Bohanan, HPOS Director of Regulatory Compliance  
\*M. D. Vernon, Superintendent QC  
D. A. McGraw, Superintendent QA  
\*M. Thompson, Jr., Senior Resident Engineer  
W. M. Langlois, CI Unit Supervisor

Other licensee employees contacted included 22 construction craftsmen, seven technicians, 11 operators, 15 engineers, three security force members, and 18 office personnel.

#### Other Organizations

\*W. D. Goodman, Project Manager, Daniel Construction Company

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on May 21, 1984, with those persons indicated in paragraph 1 above. At no time during this inspection period was written material provided to CP&L by the resident inspectors.

### 3. Licensee Action on Previous Inspection Findings

(Closed) Violation 83-33-01, Inadequate Corrective Action on DDR 1916. The above DDR had been closed without identifying all corrective actions. This was because the licensee had failed to identify that inadequate inspection procedures and documentation existed to support acceptable installation of electrical penetrations.

The licensee has revised the installation procedure, WP-137, and the inspection procedure, TP-28, for the installation of electrical penetrations. Discrepancy Report DR-E-320 was issued to identify, track, and

resolve this problem. The resolution of this DR provided acceptance criteria for the penetrations inspected prior to issuance of the revised procedures. New inspection exhibits have been completed on all previously inspected penetrations; all work was found acceptable. A review of DDRs written within the last six months prior to this violation revealed no additional concerns of this nature. An ongoing review of DDRs and NCRs by the resident inspectors indicates that this may be an isolated incident. Based upon the above and satisfactory closure of DR-E-320, this item is closed.

#### 4. Unresolved Items

Unresolved items were not identified during this inspection.

#### 5. Bulletins, Circulars, and Notices (92703B)

- a. (Open) IE Bulletin 84-02, "Failure of General Electric Type HFA Relays in Use in Class 1E Safety Systems." The inspectors were informed at the outset by CP&L that this Bulletin is probably not applicable at the Harris site. However, research has not yet been completed by CP&L Design Engineering to determine if this Bulletin is applicable. This item will remain open pending receipt by Region II of CP&L's response to this Bulletin.
- b. (Closed) Information Notice 83-70, "Vibration Induced Valve Failures." The inspectors evaluated the proposed plans which CP&L has made to address the concerns identified in the Notice. Even though the plant does not utilize Anchor-Darling motor-operated globe valves, CP&L plans to monitor the type of globe valves which will be utilized at the Harris plant. CP&L plans to monitor its globe valves, manufactured by Walworth, through its Trend Analysis Program. This item is closed.
- c. (Closed) Information Notice 84-03, "Compliance with Conditions of License and Notification of Disability by Licensed Operators." CP&L routed a memorandum to all of its employees holding an NRC RO and SRO license which addresses the concerns identified in the Notice. The applicable site Training Manual Instruction (TI 902) has been drafted to include provisions to make the ROs and SROs cognizant of their responsibilities as it relates to reporting physical disabilities which they may have. This item is closed.
- d. (Open) Information Notice 84-29, "General Electric Magne-Blast Circuit Breaker." CP&L has not yet completed its reviews for applicability of this Notice to the Harris site. This item remains open.

#### 6. Independent Inspection (71302)

The inspectors conducted tours of the various plant areas. During the tours, various plant conditions were evaluated to determine if they were being performed in accordance with applicable requirements and procedures.

The activities which were evaluated included: hot work (welding, burning, cutting, etc.); accessible fire protection equipment; housekeeping; equipment preservation (protected from climatic conditions); review of the clearance log; logs being kept by start-up personnel; and security of areas requiring access control.

No violations or deviations were identified in the areas inspected.

7. Electrical (51053C and 51063C)

The inspectors observed the installation activities associated with five Class 1E cables with the following numbers: 10410C-SB, 12264E-SB, 11921D-SA, 11730D-SB, and 10201D-SB. The observations related to cable pulling and various termination activities. The following were evaluated during the observations:

- a. The latest pull cards and procedures were in use.
- b. The size and type cable were correct.
- c. The cable identification (cable number and color code) was correct.
- d. The correct pulling tension was applied.
- e. The correct bending radius was applied.
- f. The cable routing was correct.
- g. The cables were protected from damage.
- h. Qualified electrical inspection personnel were monitoring the installation activities.

No violations or deviations were noted in the areas inspected.

8. Welding and NDE (55083C)

- a. The inspector examined the following welding activities on safety-related piping to determine whether applicable specifications and procedures were being met:
  - (1) Piping weld joint C1-236-1-CS-484-FW 1973 (observed in-process welding).
  - (2) Piping weld joint C1-221-1-RH-46-FW 195 (observed in-process welding).

- b. The above observations included examination to determine if:
- (1) Welding identification and location were as specified.
  - (2) Welding procedure specification assignment was in accordance with applicable code requirements.
  - (3) Welding techniques and sequences were specified and adhered to.
  - (4) Alignment of parts was as specified.
  - (5) Welding equipment was in good working order.
  - (6) Welding personnel were qualified.
  - (7) Welding procedure specifications adhered to the requirements of ASME Section IX.
  - (8) Welding inspection personnel are following the requirements of the inspection procedures.

No violations or deviations were noted in the areas inspected.

9. Preoperational Test Program Implementation (70302)

During the week of April 23, 1984, the inspectors observed portions of the ongoing tests being conducted on the emergency screenwash system. Those activities which were evaluated included preparation for testing the system and the hydrostatic testing of the piping associated with emergency screenwash pump 1A-SA. The tests related to the turnover are identified as RFT 4115.C01.

The test logs, records, and drawings were evaluated and test personnel were interviewed. During the evaluation and interviews the following points were considered: test procedures current; knowledge of test personnel; methods to change a test procedure during the conduct of testing; and methods to coordinate the conduct of testing.

No violations or deviations were identified in the areas inspected.

10 Other Areas (92706B)

- a. The resident inspectors, Region II Chief Projects and Resident Programs Section, for Harris, NRC counselors, and CP&L lawyers met with intervenor groups on April 30, 1984, in Durham, North Carolina to discuss environmental hearing issues.
- b. The resident inspectors attended the ASLB preliminary environmental hearing in Raleigh, North Carolina on May 1 and May 2, 1984.

- c. The senior resident inspector for construction conducted inspections at the H. B. Robinson Plant during the week of April 23-27, 1984.
- d. The senior resident inspector for operations conducted inspections at the Watts Bar Plant during the week of May 14-18, 1984.
- e. During this reporting period, one Region II inspector visited the site; his findings are documented in a separate Region II report.
- f. A NRR reviewer from the Human Factors Branch visited the site on May 18, 1984, to look at the control room and main control board.