



UNITED STATES
 NUCLEAR REGULATORY COMMISSION
 REGION II
 101 MARIETTA ST., N.W., SUITE 3100
 ATLANTA, GEORGIA 30303

Report Nos. 50-400/81-12, 50-401/81-12, 50-402/81-12 and 50-403/81-12

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

Facility Name: Shearon Harris

Docket Nos. 50-400, 50-401, 50-402 and 50-403

License Nos. CPPR-158, CPPR-159, CPPR-160 and CPPR-161

Inspection at Harris site near Raleigh, North Carolina

Inspector: C. Julian for 7/1/81
 G. F. Maxwell, Senior Resident Inspector Date Signed

Approved by: C. Julian 7/1/81
 C. A. Julian, Acting Section Chief, Division of Date Signed
 Resident and Reactor Project Inspection

SUMMARY

Inspection on May 20 - June 20, 1981

Areas Inspected

This routine, inspection involved 87 resident inspector-hours onsite in the areas of followup on previously identified items; equipment handling and storage, Units 1-4; concrete and soil, Units 1-4 and welding, Units 1-2.

Results

Of the four areas inspected, no violations or deviations were identified.

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REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *S. D. Smith, Vice President, Construction
- *R. M. Parsons, Site Manager
- *N. J. Chiangi, Manager Engineering and Construction QA/QC
- *G. L. Forehand, Director QA/QC
- *A. M. Lucas, Senior Resident Engineer
- *B. Seyler, Principal Civil Engineer
- *D. C. Whitehead, Senior QA/QC Specialist
- *L. E. James, Principal QA Engineer
- *E. L. Betz, Project QA Specialist
- *R. Hanford, Principal Engineer - Welding
- *T. J. Wait, QA/QC Specialist

Other licensee employees contacted included 30 construction craftsmen, 10 technicians and 15 office personnel.

Other Organizations

- *W. D. Goodman, Daniel Construction Company Project Manager
- *J. Kirk, Daniel Construction Company Assistant Project Manager

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on May 29 and June 19, 1981, with those persons indicated in paragraph 1 above.

3. Licensee Action on Previous Inspection Findings

- a. (Closed) Deficiency 400/80-17-01; 401, 402, 403/80-15-01: "Failure to minimize onsite road dust generated by routine construction activities and vehicular traffic." CP&L letter of response dated October 23, 1980, and RII letter to CP&L dated October 28, 1980, and results of telephone conversation on October 17, 1980, and subsequent observations by the onsite USNRC resident inspector reveals that sufficient corrective action has been taken to provide the necessary water for minimizing onsite road dust. This item is closed.
- b. (Closed) Infraction 400/80-22-01: "Failure to correctly translate and implement codes and standards for special processes." CP&L letters of response dated December 9, 1980, and subsequent evaluations of the responses reveal that sufficient corrective action has been taken to provide adequate control of the installation and inspection of pipe hangers as they relate to the above listed infraction. This item is

closed; however, during subsequent RII inspections the implementation of CP&L's corrective action to avoid further noncompliances will be closely monitored.

4. Unresolved Items

Unresolved items are matters about which more information is required to determine whether they are acceptable or may involve violations or deviations. New unresolved items identified during this inspection are discussed in paragraph 7.d.

5. Equipment Handling and Storage Units 1-4

- a. The inspector observed the stored condition of the reactor vessel for Units 1 - 4, the steam generators for Units 1-2 and the Unit 1 pressurizer.
- b. The inspector observed portions of the receipt inspection, storage and the rigging for off-loading of emergency diesel generator engine serial number 740462643.

In the areas inspected, no violations or deviations were identified.

6. Concrete and Soil, Units 1-4

- a. The inspector observed portions of concrete placements being made in: Unit 1 containment building (pour numbered 1CBXW240001); reactor auxiliary common building, (pour numbered 2RASL236009).

The concrete forms were tight, clean and level. Activities pertaining to delivery time, free fall, consolidation and testing conformed to specification requirements, concrete placement activities were continuously monitored by inspection personnel.

- b. The inspector toured the storage areas for the concrete batch plant cement and aggregate stock piles. The inspector questioned the cleanliness of the number four stone; CP&L QA personnel ran an information only wash test (ASTM C-117) on the aggregate in question. The results of the test indicated that the aggregate did not contain excessive clay or other aggregate particles.
- c. The inspector toured the concrete test lab and observed the stored condition of the concrete test cylinders in the curing room. A set of cylinders was randomly selected by the inspector (from pour number 2RASL236009); the documentation for the cylinders showed the correct identification and revealed acceptable compressive strength test results.
- d. The inspector observed soil backfill operations and the test results for the soil being placed onto the service water piping located North-West of Unit 2 containment (N2310-2355/W1755-1820).

- e. The inspector observed the in-process structural inspections of the main and west auxiliary dams, spillways, piezometers, settlement monuments and dam outlet channel. The inspections were conducted by the design engineer (EBASCO) and CP&L representatives for compliance with Regulatory Guide 1.127 and EBASCO specification CAR-SH-CH-24.

In the areas inspected, no violations or deviations were identified.

7. Welding - Units 1 and 2

- a. The inspector observed the inspections and the as found conditions for the following weld joints:
 - (1) 1-SW-521-FW-1776 (observed fit-up)
 - (2) 5-FP-101-SW-1 (observed final visual)
 - (3) 1-BR-136-FW-486 (observed purge)
 - (4) 2-SC-1-FW-16 (observed final visual)
 - (5) 2-SC-1-FW-12 (observed final visual)
- b. The inspector participated in a site inspection conducted by another RII inspector; the inspection involved: observation of in-process ASME Section III, Class two and three welds; observation of class 1E cable tray supports and observation of as found condition of structural welds. The results of the inspection are documented in RII reports numbered 50-400, 401, 402, 403/81-11.
- c. The inspector selected ten controlled documents which were being utilized by craft personnel for the installation of electrical class 1E raceway supports. The documents were found to be of the most current revisions and contained sufficient details required to conduct the installations.
- d. The inspector observed the as found condition of stud welds which were installed for the purpose of fastening class 1E conduit pull boxes into their support brackets (boxes numbered B 1415SB, B1414SB, B1397SB and B1537SB). The inspector questioned site CP&L engineering and inspection personnel concerning the type fasteners to be utilized to fasten the conduit pull boxes to the installed studs. As a result; the inspector was not shown nor could site CP&L personnel provide the design information (drawing or specification) to be followed in selecting and installing the fasteners (nuts) for Class 1E seismic I mounted conduit pull boxes. This is an unresolved item (50-400/81-12-01).

In the areas inspected, no violations or deviations were identified.

