



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

Report Nos. 50-413/80-31 and 50-414/80-31

Licensee: Duke Power Company
422 South Church Street
Charlotte, NC 28242

Facility Name: Catawba Nuclear Station Units 1 & 2

Docket Nos. 50-413 and 50-414

License Nos. CPPR-116 and CPPR-117

Inspection at Catawba site near Rock Hill, South Carolina

Inspector: John K. Ranch for
G. F. Maxwell

11-4-80
Date Signed

Approved by: John K. Ranch for
J. Bryant, Section Chief, RC&ES Branch

11-4-80
Date Signed

SUMMARY

Inspection on October 6-10, 1980

Areas Inspected

This routine resident, unannounced inspection involved 32 inspector-hours on site in the areas of followup inspection of previously identified items, installation of electrical penetrations, electrical cables and supports and equipment storage.

Results

Of the four areas inspected, no items of noncompliance or deviations were identified.

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DETAILS

1. Persons Contacted

Licensee Employees

*D. G. Beam, Project Manager
*D. L. Freeze, Project Engineer
*S. W. Dressler, Senior Construction Engineer
*R. A. Morgan, Senior QA Engineer
*J. C. Shropshire, QA Engineer
*H. D. Mason, QA Engineer

Other licensee employees contacted included eight construction craftsmen, three technicians, and ten office personnel.

*Attended exit interview

2. Exit interview

The inspection scope and findings were summarized on October 10, 1980 with those persons indicated in Paragraph 1 above.

3. Licensee Action on Previous Inspection Findings

- a. (Open) Deficiency 413, 414/80-16-01, Failure to correctly translate codes and standards into specifications, drawings, procedures or instructions. Observed that the specific revised electrical drawing mentioned in DPC letter to RII (dated September 9, 1980) has not been received by site construction personnel. Observed a letter which was distributed to design and construction giving clarification on the use of special welding abbreviations, such as; B. S., F. S., and N. S. The inspector met with the DPC senior engineer concerning the contents of the DPC letter to RII dated September 9, 1980. The inspector explained that there are numerous electrical drawings which still contain the incorrect weld symbol denoted in the aforementioned DPC letter. The inspector was informed by the DPC senior engineer that a supplemental response will be sent to RII giving a more realistic date by which site electrical cable tray support drawings will be revised to correct incorrect weld symbols. This item remains open.
- b. (Closed) Infraction 413/80-14-01, Failure to install pipe support in accordance with design drawings and construction procedures. Observed that the steel wedge has been removed from the bearing bushing on pipe hanger numbered 1-A KC-4308. Observed that an inspection checklist has been developed for use with QA procedure M-15. The checklist has a specific inspection point requiring inspection for freedom of movement on applicable supports; as indicated in DPC letter to RII dated August 25, 1980. This item is closed.

4. Unresolved Items

No unresolved items were identified during this inspection.

5. Electrical Penetrations - Units 1 & 2

a. Observed an electrical train A control and instrumentation penetration being installed in Unit 1 containment at elevation 585', 30 degrees 30 minutes. During the installation the following were observed:

- (1) The "O" rings were carefully installed in accordance with the applicable specification (CNS-1390.01-00-0073).
- (2) The mechanical fasteners were of the proper type and were torqued in accordance with specification requirements.
- (3) The installed penetration (serial number 9631G) was first protected with tape across the top and then a leak test performed.
- (4) Responsible QC personnel were present during the installation and recorded inspection results in accordance with DPC QA procedure M-41B on a form (serial number 13).

b. Inspected the electrical tool issue area and observed that the special electrical termination tools have been purchased for use during the termination phase of the installations of the various electrical penetrations. The type tools are listed in the penetration supplier's instruction manual CNM-1361-00-11 section 3.3.

In the areas inspected no items of noncompliance or deviation were observed.

6. Electrical Cables and Supports - Units 1 & 2

a. Observed the installation of control cable 1*ATC 760. The responsible electrical QC inspectors were present during the installation; further observed:

- (1) Awareness of applicable procedural requirements.
- (2) Cable was checked for size, type, color coding, routing and reel number identification.
- (3) Workers sealed the ends of the electrical cables with a sealing tape.
- (4) The cable was identified with a temporary identification card.

b. Observed the installed condition of power cables numbered 1*EPL 506 and 1*EPL 514. Both cables were found to be the proper type, correctly routed and identified with the correct type identifiers; which were color coded white and yellow respectively.

- c. Selected six construction drawings which were being used by workers to install electrical cable tray supports and two electrical specifications which were being used to install electrical penetrations; the documents were found to be the most current revisions.
- d. Witnessed responsible electrical QC inspection personnel conducting an installation inspection of electrical cable tray supports which have been installed in Unit 2 accumulator room numbered 2A, a room located inside the reactor containment building. As a result of the RII inspectors observations and the DPC inspectors observations several unsatisfactory conditions were identified, i.e.: many of the hanger anchor bolts were not perpendicular, anchor bolts and their nuts displayed indications that they had been struck numerous times by a heavy object and several of the anchor bolts were found to be torqued to incorrect values. Observed that the responsible QC inspector promptly identified the above concerns on a nonconformance report numbered 9723, dated October 7, 1980. The inspector has no further questions about this matter at this time.

In the areas inspected no items of noncompliance or deviations were identified.

7. Other Areas Inspected

- a. Observed the stored condition of both reactor vessels, both of the reactor vessel closure heads and Unit 1 steam generators.
- b. Observed that the routine inspections of the above items are being conducted and documented by the responsible QC inspection group in accordance with the respective maintenance card (P3A) requirements.

In the areas inspected no items of noncompliance or deviation were identified.