



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

Report Nos.: 50-413/85-31 and 50-414/85-25

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

Docket Nos.: 50-413 and 50-414

License Nos.: NPF-35 and CPPR-117

Facility Name: Catawba

Inspection Conducted: June 26 - July 26, 1985

Inspectors:

HC Dance /fn
P. K. Van Doorn

8/1/85
Date Signed

HC Dance /fn
P. H. Skinner

8/1/85
Date Signed

Approved by:

HC Dance
H. C. Dance, Section Chief
Division of Reactor Projects

8/1/85
Date Signed

SUMMARY

Scope: This routine, unannounced inspection entailed 152 inspector-hours on site in the areas of site tours (Units 1 and 2); followup of licensee identified items (Units 1 and 2); review of proposed Technical Specifications (Unit 2); fuel receipt and storage (Unit 2); instrumentation (cables and terminations) - observation of work (Unit 2); comparison of as-built plant to FSAR description (Unit 2); review of HVAC sealants (Units 1 and 2); maintenance observations (Unit 1); surveillance observations (Unit 1); review of nonroutine events (Unit 1); plant operations review (Unit 1); and followup of previous identified inspection findings (Unit 1).

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

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REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *J. W. Hampton, Station Manager
- *E. M. Couch, Project Manager
- W. Allgood, Completion Engineer Electrical
- H. L. Atkins, QA Engineering Supervisor
- H. B. Barron, Operations Superintendent
- S. G. Benesole, QA Engineer Hangers
- B. F. Caldwell, Station Services Superintendent
- *J. W. Cox, Superintendent Technical Services
- T. E. Crawford, Operations Engineer
- L. R. Davison, Project QA Manager
- J. R. Ferguson, Assistant Operating Engineer
- *C. L. Hartzell, Licensing and Projects Engineer
- G. D. Houser, QA Hangers Supervisor
- *R. A. Jones, Test Engineer
- C. S. Kelly, Instrumentation/Electrical Technical Support
- J. A. Kinard, Technical Support Hangers
- *P. G. LeRoy, Licensing Engineer
- C. E. Muse, Operating Engineer
- *T. D. Miles, Construction Engineer, Electrical
- G. T. Smith, Maintenance Superintendent
- D. Tower, Operating Engineer
- J. E. Whichard, Supervisor Electrical Technical Support
- P. M. White, HVAC Design Engineer
- E. G. Williams, Project QA Technician

Other licensee employees contacted included construction craftsmen, technicians, operators, mechanics, security force members, and office personnel.

*Attended exit interview.

2. Exit Interview

The inspection scope and findings were summarized on July 26, 1985, with those persons indicated in paragraph 1 above. The unresolved item described in paragraph 8 was discussed in detail. The licensee acknowledged the findings and had no dissenting comments. The licensee did not identify as proprietary any of the materials provided to or reviewed by the inspectors during this inspection.

A copy of "Results of Regional Survey of Plant-Specific Information Relating to the Potential For Uncontrolled Radiation Exposures in PWR Reactor Cavities", was given to the licensee at an exit interview on July 19, 1985. This is an information document which has been forwarded to the Public Document Room.

3. Licensee Action on Previous Enforcement Matters

- a. (Closed) Violation 413/85-14-02: Failure to Adequately Review the Result of Data Obtained on Instrument Procedure IP/0/A/3710/08. The response to this item was submitted on June 28, 1985. The inspector reviewed this response and verified implementation of corrective actions and considers licensee action to be acceptable.
- b. (Closed) Violation 413/85-14-03: Failure to Meet Technical Specification 3.0.4 Requirements For RHR While In Mode 5. The response to this item was submitted on June 28, 1985. The inspector reviewed this response and verified implementation of corrective actions and considers licensee action to be acceptable.
- c. (Closed) Unresolved Item 414/85-21-01: Verification of Adequate Control of Hanger Installation. The licensee has evaluated each of the previously identified discrepancies and has shown each case to be technically insignificant.

The inspector previously reviewed these evaluations and considered them to be adequate. However, the inspector questioned whether the licensee had an adequate program to identify and correct hanger discrepancies caused after final QC inspection is complete. This damage can and does occasionally occur when personnel use these hangers to gain access to various components. The inspector reviewed the licensee walkdown program described by Construction Procedure No. 864 and considers this program generally acceptable. The inspector questioned whether painters had received any special training to prevent damage as much as possible to hangers and to report damage if it does occur since painters do much of their work after final walkdowns are completed. The licensee indicated that previous training had been done but an additional training session would be conducted to reinforce this training. This training was accomplished on July 12, 1985 and was witnessed by the inspector.

4. Unresolved Items*

New unresolved items are identified in paragraph 8.

5. Independent Inspection Effort (92706) (Units 1 and 2)

The inspectors conducted tours of various plant areas. During these tours, various plant conditions and activities were observed to determine that they were being performed in accordance with applicable requirements and procedures. No significant problems were identified during these tours and the various evolutions observed were being performed in accordance with applicable procedures.

*An Unresolved Item is a matter about which more information is required to determine whether it is acceptable or may involve a violation or deviation.

6. Technical Specification Review (71301) (Unit 2)

The inspector reviewed the licensee proposed Technical Specifications to determine if comments needed to be forwarded to the NRC:NRR reviewers. Verbal comments were forwarded. The NRC reviewers met with licensee and Region II representatives at the site to acquire additional information relative to proposed changes.

No violations or deviations were identified.

7. Fuel Receipt and Storage (60501B) (Unit 2)

The inspector observed receipt in progress for the first three fuel shipments to verify that the licensee was meeting requirements of approved procedures and Materials License SNM-1949. Attributes considered in this review included personnel training, housekeeping/cleanliness control, health physics controls, security, receiving inspection (assemblies N23, N26, N27 and N56) and documentation.

During this inspection the licensee informed the inspector that radiation monitors required by licensee submittal of June 20, 1984, page 7 were not operable. The licensee took compensatory action of placing two portable monitors in the fuel receipt area. This was documented in licensee memorandum Cox/Canady dated July 12, 1985. The inspector discussed this compensatory measure with the NRC safeguard representative who indicated this was technically acceptable action.

No violations or deviations were identified.

8. Instrumentation (Cables and Terminations) - Observation of Work (52063C) (Unit 2)

The inspector observed selected cables to determine if installation was in accordance with appropriate and approved procedures and specifications. This review included observation of routing, supports, protection, separation, identification of cables and raceways, raceway loading, and terminations. Cables observed were 2CA 845 (Auxiliary Feedwater Discharge Pressure), 2FW564 (RWST Level), 2NS 580 (Containment Pressure), 2CF513 (Steam Generator Narrow Range Level), 2NS551 (Containment Pressure) and 2NS604 (Containment Isolation).

The inspector questioned the licensee relative to separation of Cable No. 2FW564 from heat tracing cable inside the instrument electrical box. The licensee indicated that an apparent discrepancy from specifications existed and wrote Nonconforming Item Report No. 19773. The licensee was requested to evaluate this item for significance and generic implications. This is Unresolved Item 414/85-25-01: Evaluation of Instrumentation Cable Separation Problem.

No violations or deviations were identified.

9. Comparison of As-built Plant to FSAR Description (37301) (Unit 2)

The inspector performed a walkdown inspection of the Auxiliary Feedwater System to determine if piping, valves, and instrumentation (including electrical control and logic) installation was in accordance with current flow diagrams and FSAR descriptions. System portions shown on Drawing Nos. CN 2592-1.0, CN 2592-1.1, CNEE 0215-01.33, CNEE 0247-02.01, 02, 03, 04,05, and CNEE 0247-04.17, 18, 19, 20, and 21 were observed.

The inspector reviewed electrical control and instrumentation logic only for the Chemical and Volume Control System to verify that this system met the FSAR description.

No violations or deviations were identified.

10. Review of HVAC Duct Sealants (50100) (Units 1 and 2)

The inspector requested the licensee to provide assurance that sealant materials used in HVAC duct joints is environmentally qualified. The licensee informed the inspector that three types of sealants are used. These are Tremco Type 440, Epichlorohydrin Gaskets Stock No. R473E and R475E by Rubatex Corp., and Dow Corning Silastic 732 RTV. The inspector reviewed licensee documentation of environmental evaluation of these materials and considers licensee evaluation of these materials to be adequate.

No violations or deviations were identified.

11. Maintenance Observation (62703) (Unit 1)

Station maintenance activities of selected systems and components were observed/reviewed to ascertain that they were conducted in accordance with the requirements. The inspector verified licensee conformance to the requirements in the following areas of inspection: (1) that the activities were accomplished using approved procedures, and functional testing and/or calibrations were performed prior to returning components or systems to service; (2) quality control records were maintained; (3) that the activities performed were accomplished by qualified personnel; and (4) parts and materials used were properly certified. Work requests were reviewed to determine status of outstanding jobs and to assure that priority is assigned to safety-related equipment maintenance which may effect system performance.

No violations or deviations were identified.

12. Surveillance Observation (61726) (Unit 1)

During the inspection period, the inspector verified plant operations were in compliance with various Technical Specifications requirements. Typical of these requirements were confirmation of compliance with the Technical Specifications for reactor coolant chemistry, refueling water tank, emergency power systems, safety injection, emergency safeguards systems, control room

ventilation, and direct current (DC) electrical power sources. The inspector verified that surveillance testing was performed in accordance with the approved written procedures, test instrumentation was calibrated, limiting conditions for operation were met, appropriate removal and restoration of the affected equipment was accomplished, test results met requirements and were reviewed by personnel other than the individual directing the test, and that any deficiencies identified during the testing were properly reviewed and resolved by appropriate management personnel.

Typical of the surveillance items that were witnessed in part or in full were various calibrations of portions of the nuclear instrumentation and radiation monitoring systems.

No violations or deviations were identified.

13. Review Of Licensee Nonroutine Event Reports (92700) (Unit 1)

The below listed Licensee Event Reports (LER) were reviewed to determine if the information provided met NRC requirements. The determination included: adequacy of description, verification of compliance with Technical Specifications and regulatory requirements, corrective action taken, existence of potential generic problems, reporting requirements satisfied, and the relative safety significance of each event. Additional inplant reviews and discussion with plant personnel, as appropriate, were conducted for those reports indicated by an asterisk (*). The following LERs are closed.

*LER 85-01	Auto Start CA Motor Driven Pumps
*LER 85-08	Reactor Trip Due to Low-Low Steam Generator Level
LER 85-13 R1	Firestop Seals on Conduit Not Installed
LER 85-14	Stainless Steel Valves Installed with Carbon Steel Filler Material
*LER 85-17	Turbine Driven CA Pump Auto Start
*LER 85-27 R1	Auto Start of 1B D/G Due To Light Socket Failure
*LER 85-30	Swapover of RN Suction to Standby Service Water Pond Due to Breaker Trip
*LER 85-31	Spurious Swapover of RN Suction to Standby Service Water Pond
*LER 85-32	Swapover of RN Suction to Standby Service Water Pond Due to Personnel Error
*LER 85-33	Reversed Operation of Steam Generator Level Circuitry Caused ESF Actuation

- LER 85-34 Diesel Generators Startup Due to Distribution System Disturbance
- *LER 85-36 Incorrect Calibration of UHI Level Instrumentation

No violations or deviations were identified.

14. Plant Operations Review (Unit 1) (71707 and 71710)

The inspectors reviewed plant operations throughout the reporting period to verify conformance with regulatory requirements, Technical Specifications, and administrative controls. Control room logs, danger tag logs, Technical Specification Action Item Log, and the removal and restoration log were routinely reviewed. Shift turnovers were observed to verify that they were conducted in accordance with approved procedures.

The inspectors also verified by observation and interviews, that measures taken to assure physical protection of the facility met current requirements. Areas inspected included the security organization, the establishment and maintenance of gates, doors, and isolation zones in the proper condition, that access control and badging were proper, and procedures followed.

In addition to the areas discussed above, the areas toured were observed for fire prevention and protection activities. These included such things as combustible material control, fire protection systems and materials, and fire protection associated with maintenance and construction activities.

No violations or deviations were identified.

15. Previously Identified Inspector Findings (92701) (Unit 2)

(Closed) Inspector Followup Item 414/85-19-01: Volume Control Tank Radiographs Sensitivity. This item involved a request for further review to be conducted by the licensee Level III inspector relative to the subject radiographs. The licensee conducted this review including utilization of an image enhancer. The licensee concluded that the films were acceptable. The NRC inspector reviewed selected films for welds Nos. 151, 152, 154, 165, 169, 170, 195 and 196. The inspector also reviewed selected films for welds Nos. 151, 152, 154, 165 and 170 on the Image Enhancer.

Two penetrations were used for these radiographs and adequate sensitivity only exists for one penetrameter in some cases. These film, however, meet codes requirements since only one penetrameter is required as long as density variation requirements are met. Density variation was met. Although sensitivity is borderline acceptable in some cases, these films are considered adequate and this item is therefore closed.

16. Licensee Identified Items 50.55(e) (99020) (Unit 2)

(Closed) CDR 414/85-01: Control Rod Drive Mechanism Breach Screw Manufacturing Error. A report for this item was submitted on February 20, 1985. The inspector reviewed this report and verified implementation of corrective actions identified in the report and considers licensee actions to be acceptable.