



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

Report Nos.: 50-269/84-22, 50-270/84-21, and 50-287/84-23

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

Docket Nos.: 50-269, 50-270, and 50-287

License Nos.: DPR-38, DPR-47, and DPR-55

Facility Name: Oconee 1, 2, and 3

Inspection Date: July 11 - August 10, 1984

Inspection at Oconee site near Seneca, South Carolina

Inspectors: C. W. Burger, Jr.
J. Bryant

8/30/84
Date Signed

C. W. Burger, Jr.
K. Sasser

8/30/84
Date Signed

Accompanying Personnel: L. King

Approved by: V. Brownlee
V. Brownlee, Chief
Reactor Projects Section 2A
Division of Reactor Projects

8/31/84
Date Signed

SUMMARY

Scope: This routine, announced inspection involved 227 (resident) inspector-hours on site in the areas of operations, surveillance, maintenance, station modifications, and previously identified items.

Results: Of the five areas inspected, no items of noncompliance or deviations were identified.

REPORT DETAILS

1. Persons Contacted

Licensee Employees

*M. S. Tuckman, Station Manager
*R. Bond, Compliance Engineer
*T. Matthews, Compliance Engineer

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

*Attended exit interview.

2. Exit Interview

The inspection scope and findings were summarized on August 14, 1984, with those persons indicated in paragraph 1 above.

3. Licensee Action on Previous Inspection Findings

- a. (Closed) URI 50-269, 270, 287/81-12-01: Fire Brigade Portable Radio System. The fire brigade still uses the operations radio system; however, this system has been upgraded and uses an antenna system which has given very satisfactory performance. The Fire Brigade has one dedicated radio; Operations has four, one of which normally accompanies the fire brigade. Additionally, all shift personnel have beepers and can be given messages. Procedurally, a security man is assigned to respond to all fire alarms; this adds another radio system.
- b. (Closed) Violation 50-269, 270, 287/81-12-02: Storage of Combustible Materials in Purge Exhaust Equipment Room. The licensee provided a satisfactory response on August 10, 1981. The purge fan rooms have been inspected on numerous occasions by the resident inspectors with no repeat of the violation.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Plant Operations

The inspectors reviewed plant operations throughout the reporting period to verify conformance with regulatory requirements, Technical Specifications (TS), and administrative controls. Control room logs, shift turnover records, and equipment removal and restoration records were reviewed routinely. Interviews were conducted with plant operations, maintenance, chemistry, health physics, and performance personnel.

Activities within the control rooms were monitored on an almost daily basis. Inspections were conducted on day and on night shifts, during week days and on weekends. Some inspections were made during shift change in order to evaluate shift turnover performance. Actions observed were conducted as required by Section 3.18 of the station directives. The complement of licensed personnel on each shift inspected met or exceeded the requirements of TS. Operators were responsive to plant annunciator alarms and appeared to be cognizant of plant conditions.

Plant tours were taken throughout the reporting period on a routine basis. The areas toured included the following:

Turbine Building
Auxiliary Building
Units 1, 2, and 3 Electrical Equipment Rooms
Units 1, 2, and 3 Cable Spreading Rooms
Station Yard Zone Within the Protected Area

During the plant tours, ongoing activities, housekeeping, security, equipment status, and radiation control practices were observed.

Units 1, 2, and 3 operated at essentially full power throughout the report period July 11 - August 10. No major difficulties were experienced.

Unit 3 steam generator leakage has continued at about the same rate given in the July report and is currently calculated at 0.03 gpm, though offgas activity has increased to 52,000 cpm. There still is no planned date for shutdown since it is unlikely that the leak locations could be identified after cooldown. The licensee has stated that the plant will be shutdown when leakage has increased to 0.1 to 0.2 gpm.

6. Surveillance Testing

The surveillance tests listed below were reviewed and/or witnessed by the inspectors to verify procedural and performance adequacy.

The completed tests were examined for necessary test prerequisites, instructions, acceptance criteria, technical content, authorization to begin work, data collection, independent verification where required, handling of deficiencies noted, and review of completed work.

The tests witnessed, in whole or in part, were inspected to determine that approved procedures were available, test equipment was calibrated, prerequisites were met, tests were conducted according to procedure, test data were acceptable and system restoration was completed.

The following completed surveillances were reviewed:

WR 55535A Calibration of high pressure injection discharge header pressure instrumentation

WR 14477B Calibration of steam generator level instrumentation

WR 57141A Calibration of reactor building spray system flow instrumentation

WR 56268 PM high radiation doors and locks

WR 55611A Calibration of low pressure injection system borated water storage tank temperature instrumentation

WR 55105A Calibration of process radiation monitors

PT/2/A/0202/11 Performance test of Unit 2 HPI Pumps. All surveillances since December 1982.

The following surveillances were witnessed, in whole or in part, and procedures and results reviewed:

TP/2/A/0305/03C Unit 2 on line calibration of RPS Channel C

PT/2/A/0202/11 Performance tests of Unit 2 HPI pumps

The inspectors reviewed procedures prior to and during conduct of the tests. HPI pump A discharge pressure according to the local gage was low and outside acceptance criteria but not so low as to place the plant in an action statement. Remote gages in the control room indicated satisfactory pressure.

The gage was recalibrated and placed back in service the following day. The pressure then read high. The problem appears to be in the gage and maintenance work continues at the end of the report period. The inspectors will continue to follow this work until completed. This is identified as Inspector Followup Item 50-270/84-21-01.

All other aspects of the performance tests were satisfactory. The inspectors reviewed all performance tests on Unit 2 HPI pumps for the past 19 months. All procedures and test results appeared adequate with no deficiencies.

7. Maintenance Activities

Maintenance activities were observed and/or reviewed during the reporting period to verify that work was performed by qualified personnel and that approved procedures in use adequately described work that was not within the skill of the trade. Activities, procedures, and work requests were examined to verify proper authorization to begin work, provisions for fire, cleanli-

ness and exposure control, proper return of equipment to service, and that limiting conditions for operation were met.

The following completed work requests were reviewed:

WR 14190B	Repair boric acid mix tank level gauge
WR 53363C	Repair leak on valve 3HD 228 using vendor injection methods
WR 53362C	Leak repair valve 3FDW-19, body/bonnett leak
WR 56824	PM diaphram valve LWD 668 and replace bonnett assembly

The following maintenance jobs were witnessed, in part, in the field and procedures reviewed in progress:

WR 14/27B	3CB battery charger insufficient output - investigate and repair
WR 96306B	Fabricate and install sprinkler system in reactor building hatch area.

Inspectors toured Unit 1 and 2 cable spreading rooms to inspect GE AK-2 CRD breakers. The licensee's testing of new breaker front frames were witnessed to observe the types of problems being found.

8. Design Changes and Modifications

Reviewed packages of several design changes and modifications to verify that reviews were made of the design according to the requirements of 10 CFR 50.59 and Oconee TS. Nuclear Station Modification packages reviewed included:

- a. ON 2245: Change feedwater pump suction and discharge valves; also change emergency feedwater pump turbine supply and exhaust valves.
- b. ON 2304: Seal drive cable entries to obtain quality connections inside containment.
- c. ON 2260: Replace HP 64 $\frac{1}{2}$ inch Velan needle valve with $\frac{1}{2}$ inch Velan globe valve.
- d. ON 1952: Replace thermal shield bolts with stud and nut arrangement.

It was determined that the changes were reviewed and approved in accordance with Part 50.59 and TS; modifications were tested according to previously established procedures; drawings and/or procedures were changed to reflect the modifications, as needed; QA reviews and QC signoffs were made as applicable; and all necessary reviews and signoffs were made.

Numerous modifications have been installed but all required paperwork needed to completely close out the packages was not available. None of these examined had anything missing which was required for safety. This matter was discussed with the licensee who stated that work to complete the files is in progress.

No violations or deviations were identified.