



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

AUG 3 1 1988

Report Nos.: 50-269/88-22, 50-270/88-22, and 50-287/88-22

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 Nuclear Station

Inspection Conducted: August 1-5, 1988

Inspector: James L. Kreh 8-26-88
 J. L. Kreh Date Signed

Approved by: Thomas R. Decker 8-29-88
 T. R. Decker, Section Chief Date Signed
 Emergency Preparedness and Radiological
 Protection Branch
 Division of Radiation Safety and Safeguards

SUMMARY

Scope: This routine, unannounced inspection was conducted in the area of emergency preparedness and included review of the following programmatic elements: (1) Emergency Plan and Implementing Procedures; (2) emergency facilities, equipment, instrumentation, and supplies; (3) organization and management control; (4) training; and (5) independent reviews/audits.

Results: In the areas inspected, violations or deviations were not identified. The findings of this inspection indicated that the licensee was prepared to respond effectively to an emergency at the Oconee Nuclear Station.

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REPORT DETAILS

1. Persons Contacted

Licensee Employees

- S. Baldwin, Nuclear Production Engineer
- *R. Brown, Production Specialist, Emergency Preparedness
- *C. Harlin, Compliance Engineer
- E. Hogan, Environmental Compliance Coordinator
- W. Horton, Shift Supervisor
- *C. Jennings, Station Emergency Planner
- *F. Owens, Shift Supervisor, Regulatory Compliance
- C. Sheridan, Shift Supervisor
- *M. Tuckman, Station Manager
- *C. Yongue, Station Health Physicist

Other licensee employees contacted during this inspection included operators, technicians, and administrative personnel.

NRC Resident Inspectors

- P. Skinner
- *L. Wert

*Attended exit interview

2. Emergency Plan and Implementing Procedures (82701)

Pursuant to 10 CFR 50.47(b)(16), 10 CFR 50.54(q), Appendix E to 10 CFR Part 50, and Section P of the licensee's Emergency Plan, this area was inspected to determine whether significant changes were made in the licensee's emergency preparedness program since the last routine inspection (July 1987), and to assess the impact of any such changes on the overall state of emergency preparedness at the facility.

The inspector reviewed the licensee's program for making changes to the Emergency Plan and the Emergency Plan Implementing Procedures (EIPs). The inspector verified that the Station Manager approved all revisions since July 1987 to the Emergency Plan and EIPs, and that all such changes were submitted to the NRC, as required. Current controlled copies of those documents were observed to be available in the Control Room.

Documentation of the required annual review of the Emergency Plan and EIPs was provided to the inspector. This was a coordinated review which considered the Plan and its implementing procedures as an integral "package". The licensee's review was completed on October 19, 1987.

Through review of Emergency Plan revisions and discussions with licensee representatives, the inspector concluded that no significant programmatic changes were made in the subject area since the July 1987 inspection.

Three emergency declarations were made since the last inspection; each was classified as a Notification of Unusual Event. The dates of these events were March 4, April 18, and May 5, 1988. Review of the licensee's documentation of these occurrences disclosed no significant problems in the implementation of the Emergency Plan.

No violations or deviations were identified.

3. Emergency Facilities, Equipment, Instrumentation, and Supplies (82701)

Pursuant to 10 CFR 50.47(b)(8) and (9), Section IV.E of Appendix E to 10 CFR Part 50, and Section H of the licensee's Emergency Plan, this area was inspected to determine whether the licensee's emergency response facilities and other essential emergency equipment, instrumentation, and supplies were maintained in a state of operational readiness.

The inspector toured the Control Rooms, Technical Support Center (TSC), and Operational Support Center (OSC). Two significant improvements were noted at the OSC. First, a local PA was installed in the staging area for use by the OSC Coordinator in locating personnel for repair missions. Second, permanent shielding was erected in the corner of the OSC Command Room around the vertically oriented recirculation piping from the Spent Fuel Pool. In the past, despite the placement of temporary shielding, radiation levels occasionally in excess of 100 mR/hr at the pipe surfaces resulted in part of the OSC being roped off as a Radiation Area. The permanent shielding was designed to preclude recurrence of this potential impediment to OSC operations.

During April 1988, the licensee's primary meteorological measurement system was moved from the onsite microwave tower located about 850 feet WNW from the station center to a new tower across highway S.C. 130 and about 2400 feet NW from the station center. The immediate reason for this change was the construction of a seven-story office building between the reactor buildings and the microwave tower. In addition, the current meteorological system, unlike its predecessor, was designed in accordance with the criteria of (proposed) Regulatory Guide 1.23, "Meteorological Programs in Support of Nuclear Power Plants," dated September 1980. At the time of the inspection, the licensee was in the process of revising procedure RP/O/B/1000/12 (Determination of Protective Action Guides by Control Room Personnel or Emergency Coordinator During a Radiological Accident) in order to incorporate technical changes associated with the new meteorological system, including the capability of indicating Class G atmospheric stability. An internal letter dated April 25, 1988, from the Station Emergency Planner to Operations, specified the use of default values for meteorological parameters until RP/O/B/1000/12 could be appropriately revised. (The upgraded meteorological system was calibrated and fully operational as of April 23, 1988.) The Station Emergency

Planner informed the inspector by telephone on August 11, 1988, that the revised version of RP/O/B/1000/12 had been issued that day. Appropriate changes to the computerized version of this procedure were being developed.

The inspector reviewed the status of Oconee's permanent Crisis Management Center on Isaqueena Trail in Clemson, South Carolina. The facility was in a very early stage of construction; completion and turnover were expected to occur in mid-1989.

The inspector reviewed documentation of monthly emergency communications tests and equipment checks (performed in accordance with procedures PT/O/B/2000/02 and HP/O/B/1009/01, respectively) for the period July 1987 to May 1988. The records indicated that problems detected during the performance of these procedures were corrected expeditiously.

No violations or deviations were identified.

4. Organization and Management Control (82701)

Pursuant to 10 CFR 50.47(b)(1) and (16), Section IV.A of Appendix E to 10 CFR Part 50, and Section B of the licensee's Emergency Plan, this area was inspected to determine the effects of any changes in the licensee's emergency organization and/or management control systems on the emergency preparedness program, and to verify that any such changes were properly factored into the Emergency Plan and EPIPs.

The organization and management of the emergency preparedness program were reviewed. The inspection verified that there were no significant changes in the assignment of responsibility for the station and corporate emergency planning staffs since the last inspection. A program improvement occurred in March 1988, with the appointment of a full-time assistant to the Station Emergency Planner.

Personnel changes in certain station management positions resulted in the reassignment of several key positions involving primaries as well as alternates in the emergency response organization. Review of training records of such personnel confirmed that training requirements for their new positions in the emergency organization were completed prior to assignment to those positions.

Availability of off-shift personnel to staff the TSC and OSC following an emergency declaration was tested and verified by means of quarterly call-back drills in which the licensee's call-tree system was activated and personnel were contacted by telephone or pager. The inspector reviewed documentation for drills conducted on January 12, May 5, and July 28, 1988. Estimated augmentation times met the commitments specified in Figure B-5 of the Emergency Plan.

No violations or deviations were identified.

5. Training (82701)

Pursuant to 10 CFR 50.47(b)(2) and (15), Section IV.F of Appendix E to 10 CFR Part 50, and Section 0 of the licensee's Emergency Plan, this area was inspected to determine whether the licensee's key emergency response personnel were properly trained and understood their emergency responsibilities.

The licensee's Emergency Response Training Manual required an annual audit by the Station Emergency Planner to determine currency of specified training for all members of the emergency response organization. The inspector reviewed documentation of the 1988 audit, conducted during July. Several persons whose training was not current, or who had been assigned without benefit of the appropriate training, were removed from the emergency response organization.

Records of training for selected members of the emergency organization were reviewed. The training records revealed that those personnel, including some designated as alternates in the emergency organization, were provided with appropriate training, and that the type, amount, and frequency of training were consistent with requirements.

The inspector conducted a walk-through with a Shift Supervisor on duty in the Control Room. This individual was given various hypothetical sets of emergency conditions and plant data and was asked in each case to talk through the response he would provide as Emergency Coordinator if such an emergency actually existed. The individual exhibited considerable familiarity with emergency procedures and equipment. No problems were observed in the areas of emergency classification, protective action decision-making, and notification.

No violations or deviations were identified.

6. Independent Review/Audits (82701)

Pursuant to 10 CFR 50.47(b)(14) and 10 CFR 50.54(t), this area was inspected to determine whether the licensee had performed an independent review or audit of the emergency preparedness program, and whether the licensee had a corrective action system for deficiencies and weakness identified during exercise and drills.

Records of emergency preparedness program audits showed that an independent audit was conducted by the licensee's Quality Assurance Department from December 7, 1987 to April 27, 1988, and was documented in Audit Report No. NP-87-23 (CM), dated May 27, 1988. This audit fulfilled the 12-month frequency requirement for such audits. The audit records showed that the State and local government interfaces were evaluated. Audit findings and recommendations were presented to station and corporate management.

Licensee documentation showed that required critiques were held following periodic drills as well as the annual exercise. The records showed that deficiencies were discussed in the critiques, and recommendations for corrective action were made.

The licensee's program for follow-up action on audit, drill, and exercise findings was reviewed. Inspection of licensee records indicated that corrective action was taken on identified problems, as appropriate. The licensee had established a system called the Oconee Nuclear Station Commitment Index as a management tool for tracking actions taken to correct deficiencies.

No violations or deviations were identified.

7. NRC Information Notices (92717)

The inspector determined that NRC Information Notice No. 87-54, "Emergency Response Exercises," was received by the licensee, reviewed for applicability, and distributed to cognizant personnel. The licensee had already implemented the concepts presented in this Information Notice and therefore no action was necessary.

8. Exit Interview

The inspection scope and results were summarized on August 5, 1988, with those persons indicated in Paragraph 1. Although proprietary information was reviewed during this inspection, none is contained in this report.