

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



JUL 23 1987

Report Nos.: 50-269/87-27, 50-270/87-27, and 50-287/87-27

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: July 6-10, 1987

Inspector: James L. Kreh      21 July 1987  
J. L. Kreh      Date Signed

Approved by: Thomas R. Decker      21 July 1987  
T. R. Decker, Chief      Date Signed  
Emergency Preparedness Section  
Division of Radiation Safety and Safeguards

SUMMARY

Scope: This routine, unannounced inspection involved review and evaluation of the licensee's emergency preparedness program.

Results: No violations or deviations were identified.

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## REPORT DETAILS

## 1. Persons Contacted

## Licensee Employees

- \*M. S. Tuckman, Station Manager
- \*R. L. Sweigart, Superintendent - Operations
  - C. L. Harlin, Compliance Engineer
- \*C. C. Jennings, Station Emergency Planner
- \*D. L. Davidson, Compliance Specialist
- \*F. E. Owens, Shift Supervisor
  - D. L. Gordon, Shift Supervisor
  - T. E. Kelley, Safety Associate
  - T. N. Glenn, I&E Support Engineer
  - E. Merritt, Associate I&E Engineer

Other licensee employees contacted included technicians, operators, and office personnel.

## NRC Resident Inspectors

- \*J. C. Bryant
- P. H. Skinner
- \*L. Wert

\*Attended exit interview

## 2. Exit Interview

The inspection scope and findings were summarized on July 10, 1987, with those persons indicated in Paragraph 1 above. The inspector described the areas inspected and discussed the inspection findings. The licensee did not identify as proprietary any of the material provided to or reviewed by the inspector during this inspection.

## 3. Licensee Action on Previous Enforcement Matters

This subject was not addressed in the inspection.

## 4. 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 (August 1985), 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 (EPIPs). The inspector verified that the Station Manager approved all revisions to the Emergency Plan and EPIPs, and that all such changes were submitted to the NRC within 30 days of the effective date, as required. Current controlled copies of those documents were observed to be available in the Control Room, with applicable EPIPs located in the Technical Support Center (TSC) and Operational Support Center (OSC).

No violations or deviations were identified.

5. 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 Room, TSC, and OSC. The licensee had completed physical arrangements for an alternate OSC to be available in Room A121 of the Administration Building; this change was to be appropriately factored into the Emergency Plan and EPIPs during the next revision cycle. No other significant changes in emergency response facilities were made since the last inspection, according to observations by the inspector and statements by licensee representatives.

The OSC emergency supply cabinets, located in the Unit 3 Control Room area, were inspected and found to be complete and well organized. Maintenance of emergency equipment and supplies was performed in accordance with Procedure HP/O/B/1009/01.

The inspector reviewed the status of design and construction of the permanent Crisis Management Center (CMC) for the Oconee Nuclear Station. The licensee planned to construct the new CMC in Clemson, South Carolina, approximately 10 miles from the station. The CMC was designed as a dedicated facility of about 10,000 square feet, and was expected to be completed in mid-1988. Construction had not yet begun at the time of the inspection.

No violations or deviations were identified.

6. 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 organization or assignment of responsibility for the station and corporate emergency planning staffs since the last inspection. The inspector's discussion with licensee personnel disclosed the appointment of a new director of the South Carolina Emergency Preparedness Division. No other major changes in the organization and staffing of the offsite support agencies had occurred since the last inspection.

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 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 March 23, 1987, and June 18, 1987. Estimated TSC augmentation times met the commitments specified in Figure B-5 of the Emergency Plan.

No violations or deviations were identified.

#### 7. 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 O 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 inspector reviewed the Emergency Response Training Manual, approved by the Station Manager on November 26, 1986. This document specified that training records were to be maintained by Production Training Services and were to be fully audited annually by the Station Emergency Planner to verify currency of training for all station personnel assigned to the emergency response organization.

Records of training for selected members (both licensed and nonlicensed) 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.

8. Independent Reviews/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 weaknesses identified during exercises and drills.

Records of emergency preparedness program audits were reviewed. The records showed that an independent audit of the program was conducted by the licensee's Quality Assurance Department from December 8, 1986, to March 2, 1987, and was documented in Audit Report No. NP-86-23(CM). This audit fulfilled the 12-month frequency requirement for such audits. The audit records showed that the State and local government interfaces were evaluated, and that findings concerning the interfaces were made available to State and local government authorities. 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 tracking system called the Oconee Nuclear Station Commitment Index as a management tool in following up on actions taken in deficient areas.

No violations or deviations were identified.

9. Inspector Follow-up (92701)

(Closed) Inspector Follow-up Item 50-269/86-12-01: Training in health physics practices and radiological contamination control for the Medical Emergency Response Team (MERT). The licensee's corrective action for this finding from the April 1986 exercise involved intensive retraining of MERT personnel on all shifts. During the period June-November 1986, eleven medical drills were conducted. All were documented in detail, including objectives, scenario, and critique findings. On January 20, 1987, two persons were injured and slightly contaminated while working in the Unit 3 reactor vessel cavity during a refueling outage. The licensee declared a

Notification of Unusual Event and transported the personnel to Oconee Memorial Hospital for treatment. The critique of this event found the response by health physics personnel and the MERT to be "very efficient and effective."

10. NRC Bulletins (92702)

The inspector reviewed the licensee's implementation of the requirements of Bulletin No. 79-18, "Audibility Problems Encountered on Evacuation of Personnel from High-Noise Areas." In response to this Bulletin, the licensee completed a Nuclear Station Modification (NSM-1407) on April 25, 1980. Licensee records showed that 16 site assembly drills were conducted since June 1984, with no indication of recurring problems related to audibility of evacuation alarms in any area of the station.

11. NRC Information Notices (92717)

The following Information Notices (INs) were discussed with licensee representatives to ensure that receipt, management review, and appropriate corrective action had occurred.

- a. IN 85-80 (Timely Declaration of an Emergency Class, Implementation of an Emergency Plan, and Emergency Notifications): The licensee determined that no action was necessary, since all Operations personnel received appropriate training on notification procedures. Consequently, a trained communicator, knowledgeable of station operations, was always available to assist the Shift Supervisor.
- b. IN 86-97 (Emergency Communications System): The Health Physics Network (recently made available at the TSC and the interim CMC) and Emergency Notification System telephones were tested monthly by the licensee.
- c. IN 86-98 (Offsite Medical Services): The inspector reviewed an internal memo dated March 24, 1987, from the licensee's System Emergency Planner in which he stated that he had discussed this IN with North Carolina and South Carolina officials and learned that both states were pursuing changes in their emergency plans and procedures to bring them into conformance with revised Federal guidance regarding arrangements for offsite medical services. The licensee planned to conduct training and drills with two area hospitals with which Oconee Memorial Hospital maintained mutual-aid agreements.