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

SEP 1 0 1984

Report No.: 50-413/84-90

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

Docket No.: 50-413 License No.: NPF-24

Facility Name: Catawba 1

Inspection Conducted: September 5-7, 1984

Inspector: D M Montgomery for 9-17-84
G. L. Troup Date Signed

Approved by: D. M. Montgomery 9-17-84
D. M. Montgomery, Section Chief Date Signed
Emergency Preparedness and Radiological
Protection Branch
Division of Radiation Safety and Safeguards

SUMMARY

Scope: This routine, unannounced inspection involved 18 inspector-hours on site in the areas of radioactive waste systems, preoperational testing, process and effluent monitors, and followup on previously identified items.

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

REPORT DETAILS

1. Licensee Employees Contacted

*J. H. Hampton, Station Manager
*C. L. Hartzell, Licensing and Projects Engineer
*W. P. Deal, Station Health Physicist
A. J. Duckworth, Radwaste Coordinator
G. T. Mode, Health Physics Support Functions Coordinator
D. R. Rogers, Maintenance Engineer (I&E)
W. G. Reburn, I&E Supervisor
F. L. Wilson, Health Physics Supervisor
C. V. Wray, Health Physics Supervisor
*P. G. Leroy, Licensing Engineer
J. M. Stackley, I&E Support Engineer
A. P. Jackson, Staff Chemist
G. L. Courtney, Associate Health Physicist
P. N. McNamara, Assistant Health Physicist

Other licensee employees contacted included two technicians.

Other Organization

T. J. Keene, Station Health Physicist, McGuire

NRC Resident Inspectors

*P. K. VanDoorn, Senior Resident Inspector (Construction)
*P. H. Skinner, Senior Resident Inspector (Operations)

*Attended exit interview

2. Exit Interview

The inspection scope and findings were summarized on September 7, 1984, with those persons indicated in paragraph 1 above. Findings were acknowledged by licensee management representatives, who took no exceptions.

3. Licensee Action on Previous Enforcement Matters

Not inspected.

4. Review of Inspector Followup Items

a. (Closed) IFI 83-38-06, Installation of Respirator Cleaning Equipment. A commercial respirator cleaning and sanitizing unit has been installed in the respiratory protection room. Procedure HP/0/B/1005/09 has been issued for the operation of the system.

b. (Closed) IFI 84-22-03, Relocate Waste Discharge Valve 1-W-124. The relocation of the waste discharge valve to prevent the release of out-of-specification waste has been completed. The temporary drain valve has been removed.

c. (Open) IFI 84-22-04, Relocate Reactor Coolant Monitor 1-EMF-48. Work to relocate the monitor or shield the monitor and sample lines to reduce exposures of personnel in the sample room is incomplete.

d. (Closed) IFI 84-22-05, Ventilation for the Post-Accident Liquid Sample Cabinet. Ventilation ducts have been installed to provide controlled vents for both the Post-Accident Liquid Sample and the Post-Accident Containment Air Sample cabinets.

e. (Open) IFI 84-47-01, Relocate Area Radiation Monitor 1-EMF-14. The monitor has not been relocated to its specified location in the Hot Chemistry Laboratory.

f. (Closed) IFI 84-50-01, Installation of Containment Atmosphere Monitors. Work to reroute the sample lines for the monitors has been completed. This item is discussed in paragraph 5.

5. Installation of Containment Atmosphere Monitors

a. This was originally discussed in Region II Report No. 50-413/84-50 and dealt with potentially high sample line losses due to the size and the number of bends in the sample line. During preoperational testing of the monitors, it was determined that the design basis flow of 6 cfm could not be obtained through the sample lines.

b. Plant modification CN-10152 was issued and implemented to increase the size of the inlet and outlet sample tubing from 1/2" to 3/4", and the run straightened to remove expansion loops, sharp bends, etc. Additionally, an engineering evaluation be Design Engineering determined that the sampler flow rate could be reduced to 4 cfm while meeting the monitor sensitivities specified in FSAR Table 11.5.1-2 and with no significant change in line deposition of the lower flow rate.

c. The inspector reviewed the completed modification package and determined that the flow switch has been set for the new flow rate, the monitor setpoints had been reset for the lower flow rate, a local leak rate test had been conducted where the new sample line penetrated the containment and the work had been signed off as complete.

d. Procedure HP/O/B/1000/10, Determination of Radiation Monitor Setpoints, change 2, recalculated the setpoints for the containment monitors. A licensee representative informed the inspector that procedure IP/O/B/3314/15, Radiation Monitoring System (EMF), Particulate, Iodine, and Gas Monitoring, was currently being revised and would include the new flow rates and low flow alarm setpoints.

e. The inspector informed license management that IFI 84-50-01 was closed.

6. Preoperational Test Results

a. The inspector reviewed five completed test procedures. The review included verification of proper review and approval of changes; identification and correction of deficiencies; completed results and retest, as appropriate, following deficiency correction or modification. The completed tests were reviewed to verify that they have been reviewed and approved in accordance with FSAR Section 14.2.5. No violations or deviations were identified.

b. Test Procedures reviewed were:

(1) TP/0/B/1450/03, Technical Support Center Ventilation System Functional Test

(2) TP/1/B/1200/27, Post-Accident Containment Air Sampling System Test

(3) TP/1/B/1450/03, Containment Purge Ventilation System Functional Test

(4) TP/1/A/1450/04, VA Filtered Exhaust and ASP Ventilation System Functional Test

(5) TP/1/A/1450/06, Annulus Ventilation System Functional Test

7. Post-Accident Sampling Systems

The containment atmosphere post-accident sampling system has been completed and the preoperational test satisfactorily completed. The post-accident liquid sampling system is not complete. A licensee representative informed the inspector that major modifications are necessary for the system to meet the performance requirements of NUREG-0737, Section II.B.3. These changes are being developed by a working group, as the same system is installed at other licensee facilities. Completion of these modifications and demonstration of system operability are required prior to exceeding 5% rated power, in accordance with the proposed license conditions for a low power license as attached to NPF-24.