UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA ST., N.W., SUITE 3100
ATLANTA, GEORGIA 30303

Report No. 50-390/80-17

Licensee: Tennessee Valley Authority
500A Chestnut Street
Chattanooga, TN 37401

Facility Name: Watts Bar Nuclear Plant

Docket No. 50-390

License No. CPPR-91

Inspection at Chattanooga, Tennessee and Spring City, Tennessee

Inspector: G.R. Jenkins for A. L. Cunningham — 6/17/80 Date Signed

Approved by: G.R. Jenkins G. R. Jenkins, Chief, E&SP Section, FF&MS Branch — 6/17/80 Date Signed

SUMMARY

Inspection Dates May 29-30, 1980

Areas Inspected ?

This routine, unannounced inspection involved 16 inspector-hours on site in the areas of nonradiological preoperational monitoring programs; review of operational environmental monitoring program; status review of licensee's environmental protection program.

Results

Of the three areas inspected, no items of noncompliance or deviations were identified.

8007290 404

DETAILS

1. Persons Contacted

*R. H. Shell, Supervisor, Environmental Planning Section, Regulatory Staff
J. G. Shields, Assistant Construction Engineer
*M. L. Hellums, Environmental Engineer

*Attended exit interview.

2. Exit Interview

The inspection scope and findings were summarized on May 30, 1980, with those persons indicated in Paragraph 1 above. The preoperational nonradiological monitoring programs and the completion thereof were discussed with licensee representatives.

3. Licensee Action on Previous Inspection Findings

There were no previous inspection findings.

4. Unresolved Items

Unresolved items were not identified during this inspection.

5. Preoperational Monitoring Program

There are no specific requirements or direct references in the Construction Permits or the Initial Decision for the Watts Bar Nuclear Plant which address a nonradiological environmental preoperational monitoring and surveillance program. Section 2.4 of the TVA Final Environmental Statement, and Section III-J of the plant NPDES Permit (TN0020168), however, required a nonradiological preoperational environmental program consisting of a fisheries study, and a nonfisheries aquatic biological study including synoptic water quality monitoring. The subject programs were discussed with licensee representatives and the reports generated from such programs were reviewed by the inspector. Final reports from fisheries and nonfisheries aquatic biological programs were submitted to EPA on January 31, 1980. There were no questions regarding this item.

6. Environmental Protection Program

The Environmental Protection Program implemented by the licensee was developed from commitments defined in Section 2.8 of the TVA Final Environmental Statement and paragraphs 30 through 33 of the Initial Decision. Elements of the program selected for review and inspection included construction and chemical wastes, erosion and siltation control, monitoring of turbidity and siltation levels in holding ponds and receiving waters. Inspection included review of reports and data, and a detailed inspection of the plant site.

Inspection disclosed the following: (1) management of construction wastes, including spoil storage was implemented to minimize adverse terrestrial and aquatic environmental impact; (2) lined basins, settling and percolation ponds were provided to accommodate storage and disposal of chemical wastes; (3) erosion and siltation control was implemented to minimize adverse impact upon the reservoir at site check dams and outfalls; (4) monitoring of turbidity and siltation was conducted, as required, at outfalls of site check dams and settling pond to assess construction activities effects. At time of inspection, major plant construction activities were completed; however, the environmental protection program and controls were being implemented in support of the level of site construction activities in progress. There were no questions regarding this item.

7. Review of Operational Environmental Monitoring

Proposed nonradiological monitoring for assessment of impact of the operating plant on the aquatic environment was confined to the NPDES Permit referenced in the preceding paragraph. The proposed Environmental Technical Specifications (Non-Radiological) for Watts Bar Nuclear Plant consist largely of administrative controls assuring implementation of applicable permits and certificates assigned for protection of the environment. There were no questions regarding this item.