



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

Report Nos.: 50-390/78-20 and 50-391/78-17

Docket Nos.: 50-390 and 50-391

License Nos.: CPPR-91 and CPPR-92

Licensee: Tennessee Valley Authority

Facility Name: Watts Bar Nuclear Plant Units 1 and 2

Inspection at: 401 Building
Chattanooga, Tennessee

Watts Bar Nuclear Plant
Watts Bar, Tennessee

Inspection conducted: July 31 - August 1 and 3, 1978

Inspector: A. L. Cunningham

Reviewed by:

J. J. Bonatti
J. W. Hufham, Chief

Environmental and Special Projects Section
Fuel Facility and Materials Safety Branch

9/1/78
Date

Inspection Summary

Inspection on July 31 - August 1 and 3, 1978: (Report Nos. 50-390/78-20 and 50-391/78-17)

Areas Inspected: Routine unannounced inspection of preoperational environmental monitoring program; construction effects monitoring; environmental protection practices; on-site meteorological measurements program; procedures and administrative controls. The inspection involved 16 inspector-hours on site by one NRC inspector.

Results: No items of noncompliance or deviations were disclosed.

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DETAILS I

Prepared by:

A. L. Cunningham 09/01/78
A. L. Cunningham, Environmental Scientist Date
Environmental and Special Projects Section
Fuel Facility and Materials Safety Branch

Dates of Inspection: July 31 - August 1 and 3, 1978

Reviewed by:

J. W. Hufham 9/1/78
for J. W. Hufham, Chief Date
Environmental and Special Projects Section
Fuel Facility and Materials Safety Branch

All information in the following Details applies equally to Units 1 and 2.

1. Individuals Contacted

T. B. Northern, Project Manager
J. G. Shields, Assistant Construction Engineer
B. A. Brye, Environmental Engineer
*M. L. Hellums, Environmental Engineer
*C. L. Mills, Environmental Engineer
*R. H. Shell, Supervisor, Environmental Planning Section, Office
of Power Regulatory Staff
O. E. Gray, Assistant Chief, Office of Power Regulatory Staff
*C. E. Odell, Assistant to the Director, Environmental Planning
*R. A. Rainey, Quality Assurance Coordinator, Environmental Planning

*Denotes those present at the exit interview.

2. Licensee Action on Previous Inspection Findings

No previous inspection findings were disclosed within the scope of this inspection.

3. Unresolved Items

No unresolved items were disclosed during this inspection.

4. Environmental Program Review

The inspector discussed the status of the environmental control program with licensee representatives. Elements of the program selected for status review included vehicular traffic, water quality monitoring, air quality, solid waste disposal, management and storage of hazardous materials, site erosion and runoff control. The above

program elements were being implemented at the time of inspection. The inspector also reviewed detailed written procedures developed by the licensee to provide guidelines for evaluating and controlling the environmental effects of construction activities and to specify methods employed in implementing the environmental protection requirements. Administrative and management controls assuring program implementation were also reviewed. Inspection disclosed that administrative and management controls employed by the licensee appeared to meet accepted industry practice.

5. Preoperational Monitoring Program

The inspector reviewed the baseline nonradiological preoperational environmental monitoring program. The review included aquatic physicochemical and biological monitoring parameters. Field data and records were inspected to verify implementation of quarterly monitoring of plankton, periphyton and benthos in the Chicamauga Reservoir for the period January 1977, through December 1977. Water quality monitoring data compiled during the above cited period was also inspected. Inspection disclosed that the preoperational monitoring program appeared consistent with commitments defined in the TVA Environmental Statement for Watts Bar Nuclear Plant, Units 1 and 2. The nonradiological monitoring and surveillance program and all licensee commitments related thereto was completed.

6. Site Inspection

The inspector conducted a detailed site inspection to verify implementation of the licensee's environmental control program. Items inspected included the following: (1) erosion and runoff control; (2) management of spoil storage and borrow areas; (3) storage and management of hazardous materials, e.g., fuels, lubricants, solvents, askarel (PCB); (4) concrete mixing plant; (5) construction settling pond; (6) plant intake and discharge (diffuser pipes) construction areas; (7) air quality control; (8) chemical treatment pond and chemical cleaning waste flow path; (9) status and schedule of plant systems cleaning and flushing operations; (10) sewage treatment package plants. Inspection disclosed that all of the above environmental control items and systems were implemented and maintained as defined in their respective procedures.

7. Meteorology

The inspector conducted a detailed review of the on-site meteorological measurements program. Inspection included the

following: (1) review of operating, maintenance and calibration procedures; (2) review of instrument maintenance and calibration records; (3) review of daily checklists; (4) inspection of strip chart and computer data recorders. Inspection disclosed that the onsite preoperational measurements program was conducted in compliance with the commitments defined in Section 2.3.3 of the FSAR.

8. Exit Interview

The inspector met with licensee representatives (denoted in paragraph 1) at the conclusion of the inspection on August 3, 1978. The inspector summarized the scope and findings of the inspection discussed herein.