



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
230 PEACHTREE STREET, N.W. SUITE 1217  
ATLANTA, GEORGIA 30303

AUG 16 1977

In Reply Refer To:  
RII:ALC  
50-390/77-10  
50-391/77-10

Tennessee Valley Authority  
Attn: Mr. Godwin Williams, Jr.  
Manager of Power  
830 Power Building  
Chattanooga, Tennessee 37401

Gentlemen:

This refers to the inspection conducted by Mr. A. L. Cunningham of this office on July 28-29, 1977, of activities authorized by NRC Construction Permit Nos. CPPR-91 and CPPR-92 for the Watts Bar facility, and to the discussion of our findings held with Mr. O. E. Gray at the conclusion of the inspection.

Areas examined during the inspection included review of the preoperational environmental monitoring program, environmental monitoring of construction activities, review of procedures and administrative controls, and implementation of environmental control requirements. Within these areas, the inspection consisted of selective examination of procedures and representative records, interviews with cognizant personnel, and observations by the inspector.

Within the scope of this inspection, no items of noncompliance were disclosed.

In accordance with Section 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and the attached inspection report will be placed in the NRC's Public Document Room. If this report contains any information that you believe to be proprietary, it is necessary that you submit a written application to this office requesting that such information be withheld from public disclosure. If no proprietary information is identified, a written statement to that effect should be submitted. If an application is submitted, it must fully identify the bases for which information is claimed to be proprietary. The application should be prepared so that information sought to be withheld is incorporated in a separate paper

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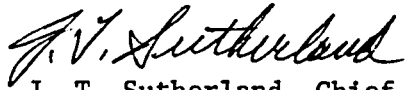
Tennessee Valley Authority

-2-

and referenced in the application since the application will be placed in the Public Document Room. Your application, or written statement, should be submitted to us within 20 days. If we are not contacted as specified, the attached report and this letter may then be placed in the Public Document Room.

Should you have any questions concerning this letter, we will be glad to discuss them with you.

Very truly yours,



J. T. Sutherland, Chief  
Fuel Facility and Materials  
Safety Branch

Attachment:

RII Inspection Report Nos.  
50-390/77-10 and 50-391/77-10

cc: Mr. J. E. Gilleland  
Assistant Manager of Power  
830 Power Building  
Chattanooga, Tennessee 37401

Mr. T. B. Northern, Jr.  
Project Manager  
Watts Bar Nuclear Plant  
P. O. Box 2000  
Spring City, Tennessee 37381

Mr. Stan Duhan  
400 Commerce Street  
E4D112  
Knoxville, Tennessee 37902



UNITED STATES  
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230 PEACHTREE STREET, N.W. SUITE 1217  
ATLANTA, GEORGIA 30303

Report Nos.: 50-390/77-10 and 50-391/77-10

Docket Nos.: 50-390 and 50-391

License Nos.: CPPR-91 and CPPR-92

Licensee: Tennessee Valley Authority  
830 Power Building  
Chattanooga, Tennessee 37401

Facility Name: Watts Bar Nuclear Plant, Units 1 and 2

Inspection at: Watts Bar Nuclear Plant, Watts Bar Dam, Tennessee  
TVA Division of Environmental Planning, Chattanooga,  
Tennessee

Inspection conducted: July 28-29, 1977

Inspector: A. L. Cunningham

Reviewed by: R. L. Bangart  
R. L. Bangart, Chief  
Environmental and Special Projects Section  
Fuel Facility and Materials Safety Branch

8/15/77  
Date

Inspection Summary

Inspection on July 28-29, 1977 (Report Nos. 50-390/77-10 and 50-391/77-10)

Areas Inspected: Routine unannounced inspection of preoperational environmental monitoring program; environmental monitoring of construction activities; procedures and administrative controls; implementation of environmental control requirements. The inspection involved 16 inspector-hours on site by one inspector.

Results: No items of noncompliance or deviations were disclosed.

DETAILS I

Prepared by:

A. L. Cunningham  
A. L. Cunningham, Environmental  
Scientist  
Environmental and Special  
Projects Section  
Fuel Facility and Materials Safety  
Branch

8/12/77  
Date

Dates of Inspection: July 28-29, 1977

Reviewed by:

R. L. Bangart  
R. L. Bangart, Chief  
Environmental and Special Projects Section  
Fuel Facility and Materials Safety Branch

8/15/77  
Date

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

1. Individuals Contacted

T. B. Northern, Project Manager  
J. A. Nicholls, Assistant Unit Supervisor  
J. G. Shields, Assistant Construction Engineer  
\*O. E. Gray, Assistant Chief, Regulatory Branch  
\*B. A. Brye, Environmental Engineer  
R. L. Thomas, Environmental Engineer  
\*M. L. Hellums, Environmental Engineer  
C. L. Mills, Environmental Engineer  
\*R. H. Shell, Environmental Engineer  
E. B. Roberston, Biologist  
W. W. Griffin, Engineer

\*Denotes those present at exit interview.

2. Licensee Action on Previous Inspection Findings

No previous inspection findings were outstanding in the areas covered by 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 each procedure assigned a supervisor and defined specific management responsibilities to assure program implementation. 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 March 1976 through June 1977. Water quality monitoring of the reservoir within the vicinity of the plant 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.

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, askerel (PCB); (4) concrete mixing plant; (5) construction settling pond; (6) plant intake and discharge (diffuser pipes) construction areas; (7) air quality control, i.e., dust and smoke abatement. Inspection disclosed that all of the above environmental control items were apparently implemented as defined by their respective procedures.

7. Meteorology

The inspector discussed the status of the preoperational onsite meteorological monitoring with licensee representatives. A licensee representative stated that dew point meters were installed at one

and ten meter elevations on September 16, 1976. At the time of inspection, the minimum recommended data recovery efficiency of 90% had not yet been achieved with either instrument. A licensee representative stated that some operational difficulties have been encountered; however, he stated that following completion of evaluation of the dew point monitors the recommended data recovery efficiency should be readily achievable. Inspection disclosed that all onsite meteorological parameters recommended by Regulatory Guide 1.23 were being monitored.

8. Exit Interview

The inspector met with licensee representatives (denoted in paragraph 1) at the conclusion of the inspection on July 29, 1977. The inspector summarized the purpose and scope of the inspection and discussed the findings.