



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

Report No.: 50-390/78-34

Docket No.: 50-390

License No.: CPPR-91

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

Inspection at: Watts Bar Nuclear Plant, Unit 1

Inspection conducted: December 6-8, 1978

Inspector: L. L. Jackson

Approved by: \_\_\_\_\_

*A. F. Gibson*  
A. F. Gibson, Chief  
Radiation Support Section  
Fuel Facility and Materials Safety Branch

*12/22/78*  
Date

Inspection Summary

Inspection on December 6-8, 1978 (Report No. 50-390/78-34)

Areas Inspected: Initial inspection of the radiation protection program and radioactive waste systems including a management meeting with site management to explain the inspection program in the areas of radiation protection and radioactive waste systems.

Results: Of the two areas inspected, no items of noncompliance or deviations were identified.

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DETAILS I

Prepared by:

*A F Gibson*  
 L. L. Jackson, Radiation Specialist  
 Radiation Support Section  
 Fuel Facility and Materials  
 Safety Branch

*12/22/78*  
 Date

Dates of Inspection: December 6-8, 1978

Reviewed by:

*A F Gibson*  
 A. F. Gibson, Chief  
 Radiation Support Section  
 Fuel Facility and Materials  
 Safety Branch

*12/22/78*  
 Date

1. Individuals Contacted

- \*J. F. Groves, Plant Superintendent
- \*R. L. Lewis, Plant Operations Supervisor
- \*J. E. Cross, Plant Results Supervisor
- \*B. S. Willis, Quality Assurance Supervisor
- F. K. Heacker, Chemical Engineer
- D. R. Matthews, Chemical Engineer
- L. J. Politte, Health Physics Section Supervisor, Radiological Hygiene Branch
- \*A. W. Sorrell, Plant Health Physicist
- \*C. D. Hampleman, Health Physicist
- \*M. K. Jones, Preop Section Supervisor

\*Denotes those present at the Exit Interview.

2. Licensee Action on Previous Inspection Findings

This was the initial preoperational inspection in the areas of radiation protection and radioactive waste systems. No previous inspection findings existed in these areas.

3. Unresolved Items

Unresolved items are matters about which more information is required in order to ascertain whether they are acceptable items, items of noncompliance or deviations. No unresolved items were identified during this inspection.

4. Initial Management Meeting

The Chief of the Radiation Support Section, Fuel Facility and Materials Safety Branch, Region II, and the inspector met with

licensee representatives and discussed the general inspection program, requirements, schedules and the scope and depth of inspections in the areas of radiation protection and radioactive waste systems.

5. Radiation Protection

The inspector discussed, with licensee representatives, the tentative plans for bringing the remaining health physics staff on-site; completing the radiation protection procedures; establishing the required inventory of health physics instrumentation; establishing a respiratory protection program; establishing a whole body counting program; and establishing an initial training program. Because of the very tentative nature of these plans, they will not be detailed in this report.

6. Radioactive Waste Systems

The inspector discussed, with licensee representatives, the status of the construction and preoperational testing of the various radwaste systems. The installation of these systems is not complete and preoperational tests are not written at this time.

The inspector and management representatives discussed the calibration of effluent monitors, procedures for controlling radioactive effluents, and tentative plans for implementing proposed environmental technical specifications. Because of the very tentative nature of these plans, they will not be detailed in this report.

7. Plant Tour

The inspector looked at various components of the radwaste systems such as the waste condensate tanks, cask decon tank, waste evaporator, waste disposal system liquid effluent radiation monitor and the waste gas compressors. The components were in place but much of the piping was not complete. Licensee representatives were informed that the location, pipe sizing and flushability of grab sample points is typically a problem with radwaste systems and that by following the installation of these systems the plant personnel can detect and correct problems at an early stage.

8. Exit Meeting

The inspector met with licensee representatives (denoted in paragraph 1) at the conclusion of the inspection on December 8, 1978, and summarized the scope and findings of the inspection. Management representatives were informed that there were many errors in chapters 11 and 12 of the FSAR. Management representatives stated that they were aware of the errors and that amendments were being prepared.