



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
101 MARIETTA ST., N.W.  
ATLANTA, GEORGIA 30323

Report Nos.: 50-390/85-07 and 50-391/85-07

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

Docket Nos.: 50-390 and 50-391

License Nos.: CPPR-91 and CPPR-92

Facility Name: Watts Bar 1 and 2


Inspection Conducted: January 28 - 31, 1984

Inspectors:


  
B. T. Debs

  
Date Signed

  
W. K. Poertner


  
Date Signed

  
L. P. Modenos

  
Date Signed

Approved by:

  
C. A. Sullivan, Section Chief  
Division of Reactor Safety

  
Date Signed

SUMMARY

Scope: This routine, unannounced inspection entailed 75 inspector-hours on site in the areas of licensed and non-licensed operators training and requalification programs.

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

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Q PDR

## REPORT DETAILS

### 1. Licensee Employees Contacted

W. Cottle, Site Director  
\*E. B. Ennis, Plant Manager  
\*B. S. Willis, Plant Superintendent  
\*W. S. Dulle, Station Coordinator  
\*R. C. Saner, Plant Compliance  
\*T. L. Howard, QA Supervisor  
\*R. Norman, Operations Supervisor  
\*H. A. Arnold, Section Supervisor Training BR  
\*H. J. Voiles, Training SE  
\*B. D. Varga, Training Officer  
\*J. Morgan, Engineering Associate  
\*S. Pindale, Training  
\*L. Sain, Assistant Chief Nuclear Training  
\*S. Anthony, Mechanical Engineer

#### NRC Resident Inspectors

\*W. E. Holland

\*Attended exit interview

### 2. Exit Interview

The inspection scope and findings were summarized on January 31, 1985, with those persons indicated in paragraph 1 above. The licensee was informed of the inspection findings listed below. The licensee acknowledged the inspection with no dissenting comments. The licensee did not identify as proprietary any of the material provided to or reviewed by the inspector during this inspection.

### 3. Licensee Action on Previous Enforcement Matters

- a. (Closed) Deviation (50-390/84-11-01, 50-391/84-09-01) Record: Supporting Requests for NRC Senior Operator and Operator Licenses be maintained in the Watts Bar Master Files.

An inspector reviewed a letter from Oak Ridge National Laboratory to TVA Power Operations training Center dated February 2, 1984. This letter, now on file at the Watts Bar facility, document the requisite 10 reactor startups for Docket Number 20161 (RO). Regarding deficient training information for Docket No. 8547 (SRO) and 20161 (RO), the licensee has revised operator license applications to delete this information or repeat the training if necessary.



The licensee has taken further action to record all requisite training on TVA Form 1453(s) maintained at Watts Bar. This information is now generated from TVA Form 3031 and 9880 maintained at TVA's Power Operation training Center. The inspector informed licensee management that the licensee's corrective action appeared to be adequate and that this action has closed the aforementioned violation.

- b. (Closed) Inspector Followup Item (50-390/84-11-02, 50-391/84-09-02) Verification of "Mitigation of Core Damage" training for Docket Number 20161 (RO) and 20163 (RO).

Licensee training personnel presented the inspector with completed TVA Forms 1453(s) for the aforementioned docket numbers. These forms documented "Mitigating Core Damage" training from February 23 to 24, 1984. This course consisted of 16 satisfactory hours. The inspector informed licensee management that the aforementioned documentation closes this Inspector Followup Item.

- c. (Closed) Violation (50-390/84-33-02, 50-391/84-28-02) Two Instances Of Incomplete "Observation Training Program Weekly Time Reports" As Required By Watts Bar Nuclear Station Operating Section Letter OSLT-1 Which, Itself, Was Deficient By Not Providing Any Acceptance Criteria.

The inspector reviewed journal entries and time sheets obtained by the licensee from the Sequoyah Nuclear Plant to substantiate the operational experience of the candidates in question. Additionally, the inspector was provided with documentation that one of the two individuals had been returned to the Sequoyah Nuclear Plant to assure complete substantiation of observation training. The other individual is scheduled to do the same starting February 11, 1985.

Regarding the lack of acceptance criteria aspect of the violation, the OSLT-1 "Observation Training Program Weekly Time Report" has been revised to include reactor operator verification of the hours spent by each candidate on each system with a final completion verification by either the Shift Engineer or Senior Reactor Operator which is consistent with Watts Bar Final Safety Analysis Report (FSAR) 13.2.3.1.4. The inspector informed licensee management that the licensee's corrective action appeared to be adequate and that this action has closed the aforementioned violation.

- d. (Closed) Violation (50-390/84-33-01, 50-391/84-28-01) Inaccurate Information Submitted on NRC Form 398(s).

The inaccurate information which appeared originally on the original submittal of NRC Form 398(s) has been corrected and the corrected NRC Form 398(s) were resubmitted to the NRC. The inspector selectively reviewed the licensee's latest submission of NRC Form 398(s) for Docket Numbers 5861, 20325, 20484, 20486, 20487, 20329, and 20488. The

inspector noted that there were no violations or deviations in this area. Additionally, the licensee's Quality Assurance Section conducted an audit of the applications before they were submitted to the NRC. The audit was performed under survey number WBN-AS 84-133 on August 10, 1984. The audit was performed in accordance with a prescribed checklist and all deficiencies were identified and the deficient applications were returned to the Operations Training Group for correction or resolution before submitting to the NRC. The inspector informed licensee management that their corrective action regarding this violation appeared to be satisfactory and that this violation is considered closed.

- e. (Closed) Inspector Followup Item (50-390/84-36-01, 50-391/84-36-01) "ANSI N45.2.9 Requirements for Vault Under Construction". TVA has made a revision to their commitment to ANSI-45.2.9-1974 and in their Topical Report, TVA-TR7 5-1 R7, has committed to ANSI-45.2.9-1979 which provides a floor drainage control by a floor drain and a check valve. The licensee constructed a vault facility in the Technical Services Office Building which is the permanent record repository for all plant records. The inspector toured the vault, reviewed ECN 4502, QA Topical Report and confirmed that the storage facility meets the ANSI Standard on control drainage.

#### 4. Requalification Training (41701)

The inspector reviewed the licensee's requalification training program for 1984 to determine conformance with the requirements of 10 CFR 55, the Watts Bar Final Safety Analysis Report and Watts Bar Procedure OSLT-1, Requalification Program for Licensed operators.

The Watts Bar Requalification Program consists of four weeks of training per year. A minimum of three weeks of this training is conducted at the Power Operations Training Center. Training is conducted by designated groups. Watts Bar presently utilizes a six-shift schedule with every sixth week devoted to training.

The inspector reviewed the 1984 annual written exams administered to the licensed operators (SRO and RO). The exams were structured in the same format used by the NRC and the questions were similar in format and difficulty to the questions asked in NRC requalification exams. No individuals failed the 1984 annual written examination. One SRO candidate failed an NRC administered SRO examination. This individual was reinstated into the requalification program and was administered the annual written examination, which he passed. The inspector reviewed selected training material used in the requalification training program. The inspector also reviewed the requalification records of selected SRO's and RO's.

The Watts Bar FSAR states: "A licensee may miss a total of 16 hours of training a year provided this individual scores at least 80 percent in each subject of the annual evaluation examination." Watts Bar Procedure OSLT-1



states: "A licensee is required to attend a minimum of 32 hours during each of his/her scheduled requalification weeks with a maximum of 24 hours missed provided he makes 80 percent in each subject of the evaluation examination." This inconsistency between the FSAR and the Watts Bar procedure was identified to the licensee and will be tracked as an inspector followup item (50-390/85-07-01 and 50-391/85-07-01).

In the area of Requalification Training, no violations or deviations were observed.

#### 5. Non-Licensed Employee Training

The inspector reviewed the overall training and retraining activities for non-licensed employees and general training for licensed employees to assure conformance with the licensee commitments.

The licensee keeps track of all training records on a computerized program identified as "Personnel Training Standard Report". This program provides information on the employee's name, position, required training, training dates and renewal date requirements. The inspector interviewed and reviewed several employees and verified that their personnel training files agreed with the computer printouts.

The inspector verified a portion of the General Employee Training (GET) by attending a class on GET-6 "Plant Procedures". A lecture was given with slides and a written examination was taken by all the employees present.

The following training procedures were reviewed and verified for compliance with licensee commitments.

- (a) AI-10.1, Rev. 6, "Plant Training Program" Administrative Instruction to establish the requirements and responsibilities for implementing the Plant Training Program.
- (b) ES SIL A11, Rev. 0, "Station Shift Technical Advisor Training"
- (c) Instruction Letter No. ENSL R4, Rev. 2, "Shift Technical Advisor Plant Familiarization Walkthroughs Instruction Letter No."
- (d) AI-2.16, "Shift Technical Advisor", Rev. 5
- (e) Instruction Letter No. ENSL R1, Rev. 5, "Reactor Engineering Unit Personnel Training"

In the area of nonlicensed employees and general training, no violations or deviations were observed.

## 6. Proposed Shift Manning

By letters dated September 4, and September 20, 1984, TVA described its interpretation of the Near Term Operating License Utility Working Group's criteria on hot participation experience with respect to the initial shift crew for the Watts Bar facility. In a letter dated November 9, 1984, from NRC to TVA, two additional items were added to the aforementioned criteria to make it acceptable. License management indicated to the inspector that the aforementioned criteria is understood to be a commitment by Watts Bar to the NRC for the operational staffing of Unit 1. The inspector had no further comments.