

ENCLOSURE 1

NOTICE OF VIOLATION

Tennessee Valley Authority
Watts Bar Unit 1

Docket No. 50-390
License No. CPPR-91

During an NRC inspection conducted December 4, 1991 through January 9, 1992, violations of NRC requirements were identified. In accordance with the "General Statement of Policy and Procedure for NRC Enforcement Actions," 10 CFR Part 2, Appendix C (1991), the violations are listed below:

- A. 10 CFR 50.56a requires that, "Structures, systems, and components shall be designed, fabricated, erected, constructed, tested, and inspected to quality standards commensurate with the importance of the safety function to be performed." Appendix IX of the ASME Boiler and Pressure Vessel Code, Section III, 1971 Edition, Summer 1973 Addenda, has been identified as the appropriate code for radiographic inspection of ASME Section III pipe welds.

Paragraph IX-3334.3 of the ASME Section III code requires that the film density through the weld metal be 2.0 minimum for single viewing and that the film density through the diagnostic area be within -15% and +30% of the density through the penetrometer.

Paragraphs IX-3532 and IX-3334.5 and the associated table of the ASME Section III code require that the radiographic technique be sufficient to show the 4T hole in the penetrometer.

Contrary to the above:

1. The density for 11 ASME Section III weld radiographs was either, below 2.0, or outside the -15% to +30% range when compared to the density through the penetrometer.
2. The sensitivity for 3 ASME Section III weld radiographs was not sufficient to show the 4T hole in the penetrometer.

This is a Severity Level IV Violation (Supplement II).

- B. 10 CFR Part 50, Appendix E, Criterion V, requires that, "Activities affecting quality shall be prescribed by documented instructions, procedures, or drawings, of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures, or drawings...."

Paragraph 3.6.3 of Process Specification, 3.M.5.1(c), Specification For Visual Examination of Weld Joints, specifies that, "If grinding has been performed for surface finishing operations, the weld and adjacent surfaces shall be examined for thinning to below minimum design thickness."

Tube Turns drawing P79432-C9.1 specifies a minimum thickness of 0.328" at RHR system weld 1-074E-D054-01A.

Contrary to the above requirements, weld 1-074E-D054-01A was ground to a wall thickness of 0.300" (below minimum drawing thickness) without verification that minimum design thickness had been met.

This is a Severity Level IV Violation (Supplement II).

Pursuant to the provisions of 10 CFR 2.201, Tennessee Valley Authority is hereby required to submit a written statement or explanation to the U. S. Nuclear Regulatory Commission, ATT: Document Control Desk, Washington, DC 20555, with a copy to the NRC Regional Administrator, Region II, and if applicable, a copy to the NRC Resident Inspector, Watts Bar, within 30 days of the date of the letter transmitting this Notice of Violation (Notice). This reply should be clearly marked as a "Reply to a Notice of Violation" and should include for each violation: (1) the reason for the violation, or, if contested, the basis for disputing the violation, (2) the corrective steps that have been taken and the results achieved, (3) The corrective steps which will be taken to avoid further violations, and (4) the date when full compliance will be achieved. If an adequate reply is not received within the time specified in this Notice, an order may be issued to show cause why the license should not be modified, suspended, or revoked, or why such other action as may be proper should not be taken. Where good cause is shown, consideration will be given to extending the response time. Under the authority of Section 182 of the Act, 42 USC 2232, this response shall be submitted under oath or affirmation.