

ENCLOSURE 1

NOTICE OF VIOLATION

Tennessee Valley Authority
Watts Bar Nuclear Plant

Docket Nos. 50-390 and 50-391
License Nos. CPPR-91
and CPPR-92

During an NRC inspection conducted on January 1 - 31, 1994, a violation of NRC requirements was identified. In accordance with the "General Statement of Policy and Procedure for NRC Enforcement Actions," the violation is listed below:

10 CFR 50 Appendix B, Criterion V as implemented by TVA Nuclear Quality Assurance (NQA) Plan, TVA-NQA-PLN 89-A (Revision 3), Section 6.1 requires that activities effecting quality shall be prescribed by documented instructions, procedures or drawings of a type appropriate to the circumstance and shall be accomplished in accordance with these instructions, procedures or drawings. Instructions, procedures or drawings shall include appropriate quantitative or qualitative acceptance criteria for determining that important activities have been satisfactorily accomplished.

Startup Manual Procedure (SMP-3.0), Joint Test Group Charter (Revision 8) section 2.2, JTG Responsibilities, specifies primary responsibilities to its members for verifying test objectives, acceptance criteria, testing methodology, and calculations comply with approved design output documents, license commitments, and the FSAR and have been adequately covered in the test instructions.

Contrary to the above, as of January 31, 1994 the following Preoperational Test Instructions (PTIs) were determine to be inadequate in the areas of methodology and calculations, which would have affected the accuracy of the PTI test results.

PTI-063.03 Charging, Safety Injection and Residual Heat Removal Flow Balance Test (Revision 1), Appendix 8.24, Background Calculations, Step 8.24.1 requires the calculation to convert inches of water column to an equivalent differential pressure in PSID. Licensee personnel used the incorrect fluid density value in the calculation. The Emergency Core Cooling System (ECCS) measured flow rate would have indicated higher than actual flow rates being supplied by the ECCS.

Step 8.24.2 of the calculation requires correcting the Emergency Core Cooling System (ECCS) design flowrate acceptance criteria for instrument inaccuracies and flow element orifice errors. The calculations contained in PTI-063.03 did not include the flow element installation error and incorrectly accounted for the flow element error.

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PTI-064.01, Local Leak Rate Testing Table 8.2, for primary containment penetrations X-15, X-41, X-58A and X-91 incorrectly grouped the inboard and outboard isolation valves such that the corrected maximum path leakage rate for the penetration would not have been properly calculated.

This is a Severity Level IV violation applicable to unit 1 only (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, ATTN: Document Control Desk, Washington, D.C. 20555 with a copy to the Regional Administrator, Region II, and a copy to the NRC Resident Inspector at the facility that is the subject of this Notice, 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 that 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 or Demand for Information may be issued as to 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.

Dated at Atlanta, Georgia
this 10th day of March 1994