

ENCLOSURE 1

NOTICE OF VIOLATION

Tennessee Valley Authority
Watts Bar Unit 1

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

During an inspection conducted on January 10 - 28, 1994, violations of NRC requirements were identified. In accordance with the "General Statement of Policy and Procedure for NRC Enforcement Actions," the violations are listed below:

- A. 10 CFR 50 Appendix B, Criterion III, Design Control, as implemented by the TVA Nuclear Quality Assurance Plan, TVA-NQA-PLN89-A, endorses ANSI N45.2.11, Quality Assurance Requirements for the Design of Nuclear Power Plants, 1974. Paragraph 3.0, Design Input Requirements, of ANSI N45.2.-11-1974 requires that applicable design inputs such as design bases be identified, documented, reviewed and approved.

Contrary to the above, on January 10 - 28, 1994, examples were identified in which design inputs to equipment seismic qualification documents were not properly identified, documented and reviewed. These examples were as follows:

- (1) Nuclear Seismic Analysis for Essential Raw Cooling Water Valve, 1-FCV-67-158A, Specification No. J1-824662, revision A, used as a design input that the valve was classified as an inactive valve for the design basis earthquake (DBE). The correct input was that the valve was classified as an active valve for the DBE.
- (2) Calculation WCG-ACQ-0450, Seismic Qualification of Demineralizer Tank, revision 0, contained the following design input errors:
 - a. Sheet 21; Joint 18 dimension was given as 27 inches in the X-coordinate: the correct dimension was 18 inches.
 - b. Sheet 4 of FAPPS-2 computer model; inputs were given as 9.1 for AY and 3.67 for AZ; the correct values were 2.45 for AY and 6.11 for AZ.
 - c. The grating weight was not included in all load and load combination analyses.
 - d. Attachment B, sheet 6; the Y-coordinate global coefficient for dead weight was given as 0.0; the correct value was 1.0.
 - e. Attachment C, sheet 4; shape 152 flange thickness (TY) was given as 0.504 and web thickness (TW) was 0.75; the correct values were TY of 0.75 and TW of 0.504.

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

- B. 10 CFR 50 Appendix B, Criterion V, Instructions, Procedures, and Drawings, as implemented by the TVA Nuclear Quality Assurance Plan, TVA-NQA-PLN89-A, requires that activities affecting quality shall be prescribed by documented procedures and activities shall be accomplished in accordance with these procedures.

The site procedure, Seismic Qualification Walkthrough, TI-2005, revision 3, Appendix F1, prescribes that conditions adverse to quality identified by seismic walkdown activities be documented in accordance with SSP-3.04, Correction Action Program, revision 12,

Contrary to the above, on January 10-28, 1994, examples were identified in which activities affecting quality were not accomplished in accordance with prescribed procedures. The seismic walkdowns of the Essential Raw Cooling Water intake structure identified conditions adverse to quality which were not documented by SSP-3.04 corrective action program documents as prescribed by procedure TI-2005. These conditions adverse to quality were initially documented on Appendix F Discrepancy Identification Evaluation Forms dated September 5, 1991 and August 11, 1992, for project ID WCG-ACQ-0474. The identified condition was excessive corrosion on safety-related instrument rack base and anchor bolts areas. The Appendix F discrepancy forms were closed without initiation of appropriate correction action program documents to track resolution of the adverse condition.

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

Pursuant to the provision of 10 CFR 2.201, the 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 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 4th day of March 1994