

NOTICE OF VIOLATION

Tennessee Valley Authority
Watts Bar Unit 1

Docket No. 50-390
License No. NPF-90

During an NRC inspection conducted April 7 through May 18, 1996, two violations of NRC requirements were identified. In accordance with the "General Statement of Policy and Procedure for NRC Enforcement Actions," (NUREG 1600), the violations are listed below:

- A. Technical Specification Surveillance Requirement 3.6.12.3 requires the licensee to, "Verify, by visual inspection, that each inlet door is not impaired by ice, frost, or debris."

Technical Specification Surveillance Requirement 3.6.12.4 requires the licensee to, "Verify torque required to cause each inlet door to begin to open is \leq 675 in-lb." Surveillance Requirements 3.6.12.3 and 3.6.12.4 are applicable in Modes 1, 2, 3, and 4 and are required to be performed at a frequency of three months during the first year after receipt of the operating license.

Contrary to the above, as of April 30, 1996, surveillance requirements 3.6.12.3 and 3.6.12.4 for half of the ice condenser lower inlet doors had not been performed as required. The surveillance requirements for these doors expired on March 15, 1996, and the applicable technical specification required actions had not been taken.

This is a Severity Level IV violation and applies to Unit 1 (Supplement I).

- B. 10 CFR 50, Appendix B, Criterion III, Design Control, requires, in part, that measures shall be established to assure applicable regulatory requirements and the design basis for quality-related systems are correctly translated into specifications, drawings, procedures, and instructions. The design control measures shall provide for verifying the adequacy of design.

Design Basis Document N3-65-4001, System Description for Emergency Gas Treatment System, Revision 3, Section 2.2.3, Single Failure, states, in part, that the emergency gas treatment air cleanup system shall be designed with redundant components to prevent a failure after the occurrence of a design basis event from rendering the air cleanup subsystem unable to perform its primary safety function. Section 2.1.1, Safety Function, states, in part, that the safety functions performed by the emergency gas treatment air cleanup system during a loss of coolant

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accident are to maintain annulus pressure below atmospheric and remove airborne particulates and vapors containing radioactive nuclides from air drawn from the annulus.

Contrary to the above, as of April 2, 1996, the licensee had failed to implement adequate design control measures for the emergency gas treatment air cleanup system. The design was inadequate in that a single failure after the occurrence of a loss of coolant accident design basis event would render the system unable to perform fully its primary safety functions to maintain annulus pressure below atmospheric pressure and remove radioactive nuclides from air exhausted from the annulus. The system pressure control setpoint was incorrect in that it allowed the expected pressure transient following a design basis event to reach a damper swapover setpoint, rendering one of two available trains of control dampers inoperable.

This is a Severity Level IV violation and applies to Unit 1 (Supplement I).

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, 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 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.

Because your response will be placed in the NRC Public Document Room (PDR), to the extent possible, it should not include any personal privacy, proprietary, or safeguards information so that it can be placed in the PDR without redaction. However, if you find it necessary to include such information, you should clearly indicate the specific information that you desire not to be placed in the PDR, and provide the legal basis to support your request for withholding the information from the public.

Dated at Atlanta, Georgia
this 17th day of June 1996