

**ENCLOSURE 1**

**NOTICE OF VIOLATION**

**Tennessee Valley Authority  
Watts Bar Units 1 and 2**

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

During an NRC inspection conducted April 17 through May 21, 1994, a violation of NRC requirements was identified. In accordance with the "General Statement of Policy and Procedure for NRC Enforcement Actions," 10 CFR Part 2, Appendix C, the violation is listed below:

10 CFR 50 Appendix B, Criterion V, Instructions, Procedures, and Drawings, requires in part that activities affecting quality shall be prescribed by documented instructions, procedures, or drawings and shall be accomplished in accordance with these instructions, procedures, or drawings.

Tennessee Valley Authority Nuclear Quality Assurance Plan TVA-NQA-PLN89-A, Revision 3, Section 6.1, Procedures and Instructions, requires that quality-related activities shall be prescribed by documented procedures and instructions appropriate to the circumstances. Activities shall be accomplished in accordance with these procedures and instructions. Section 7.2.7.G requires that the design integrity shall be maintained during plant maintenance and modification processes, including temporary changes, and throughout the life of the plant.

Site Standard Practice SSP-7.53, Modification Workplans, Revision 11, Section 2.2.G, requires that workplans be written after evaluating drawings or design change documents required to locate and perform the work. SSP-7.53 also requires that the remaining work list be researched to identify the outstanding items affecting the related features in accordance with Site Standard Practice SSP-7.B. Site Standard Practice SSP-7.B, Control of Modification Work After Transfer, Revision 3, Appendices H and J, requires that a remaining work list be prepared to identify all incomplete work activities, and these activities are to be included in a workplan.

As-constructed Drawing 45N1689-4, Revision 15, identifies cable 1-3PL-31-3606-A, in panel 1-R-74, as terminated at terminal block TB438.

Modifications Addition Instruction MAI-3.3, Cable Terminating, Splicing, and Testing for Cables Rated Up to 15,000 Volts, Revision 11, Section 6.2.13, requires that the ends of abandoned and/or spared cables shall be insulated with three (3) layers which are at least half-lapped Scotch 33+ tape or sealed with a Raychem end cap or sealing kit. Modifications Addition Instruction MAI-3.2, Cable Pulling For Insulated Cables Rated Up To 15,000 Volts, Revision 11, Appendix B, Supporting Conductors in Vertical Raceways, requires that the conductors in vertical conduits be supported if the maximum unsupported installation

## Notice of Violation

2

exceeds the values in Table B-1, Column 2. Column 2 of this table specifies the maximum unsupported vertical installation for 4/0 AWG conductors to be 20 feet.

Contrary to the above the following examples were identified:

1. As of May 20, 1994, cable 1-2PM-65-3765-B, in panel 1-R-131, was not included in a workplan or terminated, as required by SSP-7.53 and SSP-7.B, although it was identified in the remaining work list for workplan KP07265-A-1 as a cable requiring termination. The associated design output design change notice P-07265-A and workplan have been closed.
2. As of May 20, 1994, cable 1-3PL-31-3606-A was not terminated at TB438, as required by Drawing 45N1689-4, and its ends were sealed with tape. There was no outstanding design output document to properly terminate the cable in accordance with the drawing.
3. As of May 20, 1994, seven (7) internal wires located in panel 1-R-73 were lifted and the ends were not properly taped, as required by MAI-3.3, and unqualified yellow tape was used. These wire identifications were TB303-3, E6-B1, E8-A1, K3-1, K4-1, K7-1, K8-1. Several other wires were of similar condition but identification was not possible due to wire congestion.
4. As of May 20, 1994, six (6) 4/0 AWG cables in conduit 2PLC3221A had an effective unsupported vertical drop of 28 feet, 8 feet in excess of the 20 foot support requirement of MAI-3.2. There was no outstanding work implementing document to install the required cable supports.

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, 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

**Notice of Violation**

**3**

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 20<sup>th</sup> day of June 1994