

ENCLOSURE 1

NOTICE OF DEVIATION

Tennessee Valley Authority  
Watts Bar Unit 1 and 2

Docket No. 50-390 and 50-391  
License No. CPPR-91 and CPPR-92

The following deviation was identified during a Nuclear Regulatory Commission (NRC) inspection conducted from November 28, 1987 to January 3, 1988.

The Final Safety Analysis Report (FSAR) specifies the below listed equipment to be Class 1E:

<u>Equipment</u>	<u>FSAR Section</u>
Diesel Generators	8.3.1
125VDC Vital Batteries	8.3.2.1.1
125VDC Battery Chargers	8.3.2.1.1
120V Vital A.C. Inverters	8.3.1

FSAR Section 8.1.5.3, "Compliance to regulatory Guides and IEEE Standards", commits to Regulatory Guide 1.89, November 1974, "Qualification of Class 1E Equipment for Nuclear Power Plants", and indicates (in note four of this FSAR section) Class 1E equipment was qualified in accordance with IEEE 323-1971, "Qualification of Class 1 Electric Equipment for Nuclear Power Generating Stations".

Section 5 of IEEE 323 indicates the qualification documentation shall include the application requirements, the equipment specification and data from the qualification method used. IEEE 323 describes the following qualification methods:

- a. Type Test Data
- b. Operating Experience Data
- c. Analysis
- d. Extrapolation

Contrary to the—above, documentation does not adequately substantiate qualification as class 1E for the above listed equipment in that:

- a. Equipment specifications do not require qualification as class 1E in accordance with IEEE 323.
- b. Vendor supplied documents do not certify the equipment as being qualified in accordance with IEEE 323.
- c. Receipt inspection documents do not show the equipment as being received as class 1E in accordance with IEEE 323.

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- d. TVA Qualification documents that include application requirements, equipment specifications, and data from one of the qualification methods did not exist.

You are requested to provide a description of corrective actions regarding this deviation, actions taken to avoid further deviations, and the dates when these actions were or will be completed.

FOR THE NUCLEAR REGULATORY COMMISSION



Kenneth P. Barr, Acting Assistant  
Director for Inspection Programs  
TVA Projects Division  
Office of Special Projects

Dated At Atlanta, Georgia  
this 9<sup>th</sup> day of March 1988