TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

January 15, 1981

WBRD-50-390/81-05

Mr. James P. O'Reilly
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Region II - Suite 3100
101 Marietta Street
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - LOOSE ELECTRICAL TERMINATIONS ON THE DIESEL GENERATOR CONTROL PANELS - WBRD-50-390/81-05 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. W. Wright on December 16, 1980, in accordance with 10 CFR 50.55(e), as NCR W-20-P. Enclosed is our first interim report. We expect to provide additional information by March 11, 1981.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager
Nuclear Regulation and Safety

Enclosure
cc: Mr. Victor Stello, Jr., Director (Enclosure)
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

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WATTS BAR NUCLEAR PLANT UNIT 1
LOOSE ELECTRICAL TERMINATIONS ON THE DIESEL GENERATOR CONTROL PANEL
WBRD 50-390/81-05
10 CFR 50.55(e)
FIRST INTERIM REPORT

Description of the Deficiency

While personnel from the Tennessee Valley Authority's (TVA's) Division of Nuclear Power (NUC PR) were troubleshooting a problem identified during a preoperational test on the diesel generators, wire No. 312 on TBC-186 of diesel generator set 1A-A was found terminated without a screw and held in place with torque seal. Torque seal is an epoxy-type compound used by TVA's Division of Construction (CONST) to mark and secure torqued terminal block terminations. Subsequent inspection of all remaining electrical terminations associated with this diesel generator set and diesel generator set 1B-B identified no additional missing screws in any terminations. However, approximately 135 terminations, both internal and external, were identified with screws exhibiting varying degrees of looseness which would allow some movement of the wiring at the termination.

Safety Implications

Many of the loose terminations were associated with the voltage regulator circuit controls, governor controls, and the visual and audio alarm circuits. These loose terminations, had they remained uncorrected, could have caused erratic operation of the voltage regulator and governor controls or could have given false visual or audio alarms for the associated circuits.

Corrective Action

TVA has formed a joint CONST/NUC PR investigation committee to evaluate the deficiency and recommend the necessary corrective actions. In the interim, the loose terminations have been tightened.