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

June 24, 1985

Director of Nuclear Reactor Regulation
Attention: Ms. E. Adensam, Chief
Licensing Branch No. 4
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Ms. Adensam:

In the Matter of the Application of) Docket Nos. 50-390
Tennessee Valley Authority) 50-391

Please refer to our letters dated March 27 and April 3, 1985 which transmitted status information concerning our compliance with 10 CFR 50.49 for unit 1 of the Watts Bar Nuclear Plant and our letter of May 16, 1985 which indicated we had discovered additional items requiring environmental qualification and possible modifications.

During a conference call between TVA and NRC representatives on May 15, 1985, we reported that additional items had been discovered which require additional evaluation or modification to demonstrate compliance with 10 CFR 50.49. These additional items and our proposed resolution for each item are detailed in enclosure 1. Equipment replacement or modifications identified in enclosure 1 will be completed by June 28, 1985. Corrective actions for items 3 and 4 of enclosure 1 will be reported as soon as they are determined. Documentation for these changes and for qualified components will be provided with the information which was previously promised no later than initial criticality.

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Director of Nuclear Reactor Regulation June 24, 1985

In response to the May 20, 1985 letter from Thomas A. Novak to H. G. Parris, except as discussed above in item 3 of enclosure 1, our April 3, 1985 letter still represents an accurate assessment of the number of devices which are undergoing qualification testing to establish their full environmental qualification and the schedule for test completion. Items discussed in that letter's enclosure 2, part B, have now been installed. We will provide you an update of our electrical equipment environmental qualification report by the week of September 9, 1985, which will bring our environmental qualification documentation to a fully current status.

If you have any questions concerning this matter, please get in touch with W. C. Ludwig at FTS 858-4882.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

J. A. Domer

J. A. Domer, Chief
Nuclear Licensing Branch

Sworn to and subscribed before me
this 24th day of June 1985

Bryant M. Lowery

Notary Public
My Commission Expires 4/8/86

Enclosure
cc: U.S. Nuclear Regulatory Commission (Enclosure)
Region II
Attn: Dr. J. Nelson Grace, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

ENCLOSURE 1
WATTS BAR NUCLEAR PLANT UNIT 1
ADDITIONAL EQUIPMENT QUALIFICATION ISSUES

1. Twenty-seven items of unit 2 equipment require qualification to support unit 1 operation. Attachment 1 lists these devices and their corrective actions.

2. One hundred ten additional terminal blocks require coating to assure qualification. These terminal blocks are located outside containment and they are being coated with Patel Engineers Conformal Coating which is qualified for this application.

3. On May 9, 1985 Westinghouse Electric Corporation informed TVA that they were filing a 10 CFR 21 report on the incore thermocouple system. Qualification tests for the incore thermocouple system have shown that inaccuracies occur as a result of environmental effects. This problem affects 65 channels (1-WTE-94-1 through 65) but only 16 channels are required to be qualified to meet our NUREG-0737 commitment. Westinghouse (W) has submitted proposed corrective actions and a new proposed justification for interim operation to TVA to be used until the system is qualified. TVA is now evaluating the W proposals.

4. Seven resistance temperature devices (RTDs) and their cables and splices associated with the reactor vessel level instrumentation system (RVLIS) were determined to require qualification for submergence resulting from a loss of coolant accident (LOCA). These devices are 1-TE-68-373, 376, 377, 380, 383, 384, and 393. These concerns are being investigated by TVA.

5. Two additional unit 1 valves (1-FCV-65-52 and 1-FCV-65-53) have been determined to require qualified limit switches. These limit switches have already been replaced with qualified components.

6. The environments for two unit 1 solenoid valves (1-FSV-30-146A and 1-FSV-30-146B) were changed from mild to harsh. These valves have been replaced with qualified devices.

7. Some maintenance items required for continued qualification of the hydrogen analyzers (1-HAN-43-200 and 210) were not replaced on the manufacturers recommended schedule. A materials evaluation has been performed which provides justification for an extended qualified life for these items.

8. The following unit 1 devices were inadvertently omitted from previous submittals. The devices and corrective action are as follows:

Device No.	Corrective Action
1-FCV-70-215	TVA has reviewed the test reports for this device and determined it is qualified.
1-FCO-31-342A	TVA has reviewed the test reports for this device and determined it is qualified.

Device No.	Corrective Action
1-FCO-31-342B	TVA has reviewed the test reports for this device and determined it is qualified.
1-HS-31-342	TVA is presently evaluating qualification.
1-HS-31-343	TVA is presently evaluating qualification.
1-FCO-31-342 (relay)	TVA is presently evaluating qualification.
1-FCO-31-343 (relay)	TVA is presently evaluating qualification.
1-ZS-31-342	TVA is presently evaluating qualification.
1-ZS-31-343	TVA is presently evaluating qualification.

9. Two unit 1 flow transmitters (1-FT-70-215A and 215B) and one unit 1 handswitch (1-HS-70-215) had not been previously evaluated. TVA is presently evaluating qualification.

ATTACHMENT 1

Device No.	Corrective Action
2-TS-30-155	*
2-FSV-30-157B	Qualified
2-HS-30-157B	Qualified
2-HS-30-194	Qualified
2-TS-30-194A	*
2-FE-30-195	*
2-HS-30-195	Qualified
2-TS-30-195A	*
2-FS-30-200	Eliminate from Circuit
2-HS-30-200	Qualified
2-TS-30-200A	*
2-FS-30-207	Eliminate from Circuit
2-HS-30-207	Qualified
2-TS-30-207A	*
2-MTR-30-194	Replaced with Qualified Equipment
2-MTR-30-195	Replaced with Qualified Equipment
2-MTR-30-200	Qualified
2-MTR-30-207	Qualified
2-FSV-30-157A	Qualified
2-FSV-67-336	Qualified
2-FSV-67-338	Qualified
2-FSV-67-354	Qualified
2-FSV-67-356	Qualified
2-HS-70-51B	Qualified
2-FCV-67-146	Qualified
2-HS-67-146B	Qualified
2-FE-30-194	*

*TVA is presently evaluating qualification of these items.