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

September 4, 1981

RECEIVED
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U.S. NUCLEAR REGULATORY COMMISSION

Mr. James P. O'Reilly, Director
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 - IMPROPER MATERIALS USED IN AUXILIARY BOARD ROOM AIR CONDITIONING SYSTEM - NCR 2597R - REVISED FINAL REPORT, SUPPLEMENT 2

The subject deficiency was initially reported to NRC-OIE Inspector R. W. Wright on September 15, 1980, in accordance with 10 CFR 50.55(e). A final report was submitted on October 14, 1980. That report stated that TVA would replace all type M copper tubing with type K copper tubing. Subsequent to that report, TVA reevaluated this deficiency and plans to take alternate corrective actions. A revised final report, supplement 1 was submitted on August 6, 1981. Enclosed is our revised final report, supplement 2. We plan to submit our next report by November 13, 1981.

If you have any questions, please get in touch with D. L. Lambert at FTS 857-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

for L. M. Mills, Manager
Nuclear Regulation and Safety

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

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ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2
IMPROPER MATERIALS USED IN AUXILIARY BOARD ROOM AIR CONDITIONING SYSTEM
NCR 2597R
10 CFR 50.55(e)
REVISED FINAL REPORT, SUPPLEMENT 2

Description of Deficiency

The Auxiliary Board Room Air Conditioning System was assembled onsite by TVA using copper tubing of a type not specified for that application. M type copper was used in place of K type copper tubing. ASTM B88 M type copper tubing may not be acceptable for use in this system because the minimum design pressure of 350 psi is in excess of the allowable working stress of 327 psi for type M tubing.

Interim Progress

The quality assurance program controlling work on this system has been revised to include a mandatory materials verification hold point at the point of fabrication and/or installation to prevent any reoccurrence of this problem. TVA now plans to verify, through a sampling program, that the installed type M copper tubing is adequate for use in the Auxiliary Board Room Air Conditioning System. TVA is still investigating the specific tests to be conducted and will supply further details in our next report.