TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

83 NOV 28 A 9: 05 November 23, 1983

WBRD-50-391/81-67

U.S. Nuclear Regulatory Commission
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

WATTS BAR NUCLEAR PLANT UNIT 2 - QUALIFICATION OF EPOXY GROUT FOR SAFETY-RELATED APPLICATIONS - WBRD-50-391/81-67 - NINTH INTERIM REPORT FOR UNIT 2

The subject deficiency was initially reported to NRC-OIE Inspector R. V. Crlenjak on August 27, 1981 in accordance with 10 CFR 50.55(e) as NCR 3567R. Interim reports were submitted on September 18 and December 16, 1981; February 11, April 17, June 3, and September 23, 1982; and May 26, 1983. Our final report for unit 1 and eighth interim report for unit 2 was submitted on September 13, 1983. Enclosed is our ninth interim report for unit 2. We expect to submit our next report for unit 2 on or about February 3, 1984.

If you have any questions, please get in touch with R. H. Shell at FTS 858-2688.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager
Nuclear Licensing

Enclosure
cc (Enclosure):
Mr. Richard C. DeYoung, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

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ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2
QUALIFICATION OF EPOXY GROUT FOR SAFETY-RELATED APPLICATIONS
NCR 3567R
WBRD-50-391/81-67
NINTH INTERIM REPORT FOR UNIT 2

Description of Deficiency

Epoxy grout was specified on design drawings at specific anchor bolt locations inside containment where temperatures may exceed 120°F. Epoxy grout may have its load-carrying capabilities reduced at temperatures above 120°F. Also, the epoxy grout has not been qualified to a radiation environment inside containment.

The apparent cause of this deficiency is that the technical specification, "General Anchorage Specification No. G-32, "Bolt Anchors Set in Hardened Concrete," did not include limitations on use of epoxy grout for grouting anchors in areas exposed to radiation or elevated temperatures.

Interim Progress - Unit 2

All supports using epoxy grout which may require modification have been identified. All drawing revisions under ECN 3487 for unit 2 should be completed by December 30, 1983.