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

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USNRC REGION II

January 28, 1983

WBRD-50-390/82-47
WBRD-50-391/82-44

U.S. Nuclear Regulatory Commission
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - QUESTIONABLE PATCHES OF PLASTIC CEMENT MORTAR - WBRD-50-390/82-47, WBRD-50-391/82-44 - THIRD INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector D. Quick on April 29, 1982 in accordance with 10 CFR 50.55(e) as NCR 3791R R1. Interim reports were submitted on June 1, and August 30, 1982. Enclosed is our third interim report. We expect to submit our next report by April 29, 1983.

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

L. M. Mills, Manager
Nuclear Licensing

Enclosure
cc: Mr. Richard C. DeYoung, Director (Enclosure)
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
QUESTIONABLE PATCHES OF PLASTIC CEMENT MORTAR
NCR 3791R R1
WBRD-50-390/82-47, WBRD-50-391/82-44
10 CFR 50.55(e)
THIRD INTERIM REPORT

Description of Deficiency

Several patches of plastic cement mortar (a bonding material used in the embedment of expansion anchors and grouted anchors) in the auxiliary building and reactor building have developed cracks and are hollow sounding. The mortar has been used to repair areas of concrete that have been chipped during the drilling of anchor bolt holes.

Interim Progress

TVA is currently investigating methods to determine if the factors of safety of in-place embedded anchors installed in patches of plastic cement mortar are acceptable. If the factors of safety are reduced significantly, then the deficient anchors will be located and replaced in accordance with TVA Construction Specification G-32, "Bolt Anchors Set in Hardened Concrete."