

**TENNESSEE VALLEY AUTHORITY**

CHATTANOOGA, TENNESSEE 37401  
400 Chestnut Street Tower 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:

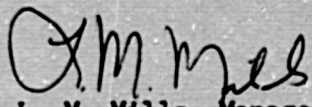
WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - QUESTIONABLE PATCHES OF PLASTIC  
CEMENT MORTAR - WBRD-50-390/82-47, WBRD-50-391/82-44 - THIRD INTERIM  
REPORT

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, 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."