TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

5N 157B Lookout Place

WBRD-50-390/86-43

AUG 20 1986

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

Dear Dr. Grace:

WATTS BAR NUCLEAR PLANT - UNIT 1 - CRAZING OF CONAX ELECTRICAL PENETRATION SEALANT - WBRD-50-390/86-43 - FINAL REPORT

The subject deficiency was initially reported to NRC-Region II Inspector Bob Carroll on April 2, 1986 in accordance with 10 CFR 50.55(e) as NCR W-356 P. Our interim report was submitted on April 28, 1986. Enclosed is our final report. We no longer consider 10 CFR 50.55(e) applicable to this item.

If you have any questions, please get in touch with J. A. McDonald at (615) 365-8527.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

J. A. Domer

R. L. Gridley, Director
Nuclear Safety and Licensing

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

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ENCLOSURE
WATTS BAR NUCLEAR PLANT UNIT 1
CRAZING OF CONAX ELECTRICAL PENETRATION SEALANT
NCR W-356-P
WBRD-50-390/86-43
10 CFR 50.55(e)
FINAL REPORT

Description of Deficiency

During cleaning operations being performed by TVA personnel on Conax electrical penetrations at Watts Bar Nuclear Plant (WBN), damage to the sealant material on the ends of penetration feedthroughs was identified. This damage consists of crazing and/or cracking of the sealant from the outside tip inward; however, the depth of the damage cannot be visually determined. An analysis of the cleaning solution being used on the sealant (denatured alcohol) revealed the presence of a small amount of Ketone (a chemical prohibited by Conax from use on the sealants). However, other penetrations not subjected to the cleaning fluid show the same type of damage.

Safety Implications

A representative from Conax Corporation visited the WBN site on May 21, 1986 and inspected representative samples of affected penetrations to assess the subject condition and provide recommendations to TVA. As stated in their letter to TVA dated June 30, 1986, Conax has determined that the subject condition will not impair the qualification nor integrity of the penetration feedthroughs. As such, no corrective actions are necessary and TVA has dispositioned nonconforming condition report (NCR) W-356-P to "use-as-is." Accordingly, TVA no longer considers 10 CFR 50.55(e) to be applicable to this item.

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