

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

September 22, 1983

83 SEP 26 4:50

WBRD-50-390/83-07

WBRD-50-391/83-06

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:

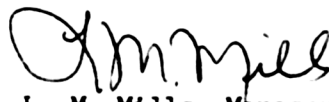
WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - FAILURE TO PROVIDE BOLT TIGHTENING  
REQUIREMENTS - WBRD-50-390/83-07, WBRD-50-391/83-06 - THIRD INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector  
P. Fredrickson on January 20, 1983 in accordance with 10 CFR 50.55(e) as  
NCR WBN SWP 8230. Interim reports were submitted on February 16 and  
June 17, 1983. Enclosed is our third interim report. We expect to submit  
our next report on or about October 28, 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

Records Center (Enclosure)  
Institute of Nuclear Power Operations  
1100 Circle 75 Parkway, Suite 1500  
Atlanta, Georgia 30339

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ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2  
FAILURE TO PROVIDE BOLT TIGHTENING REQUIREMENTS  
NCR WBN SWP 8230  
WBRD-50-390/83-07, WBRD-50-391/83-06  
10 CFR 50.55(e)  
THIRD INTERIM REPORT

Description of Deficiency

TVA's Division of Engineering Design has not provided the Division of Construction with bolt tightening requirements (for other than anchor bolts) for miscellaneous steel structures, pipe supports, conduit supports, HVAC supports, and instrumentation line supports. These requirements are necessary to ensure that the bolt tightening practices by CONST are adequate.

The majority of the bolts involved are unistrut, removable pipe supports, and removable HVAC duct supports.

Tightening requirements for anchor bolts are provided in TVA Construction Specification G-32.

Interim Progress

TVA has completed its evaluation of all bolt tightening installation requirements for miscellaneous steel structures and various supports mentioned above. The results indicate that the tightening requirements are provided to CONST by the General Notes drawings (47AOS05 for supports), structural drawings, and/or manufacturer's recommended installation procedures. Also, adequate installation requirements exist and have been used for all bolted connections except for unistrut clamp bolts used on instrumentation and conduit supports that were finalized before 1980. To determine the acceptability of the unistrut connections in question, TVA is using a sampling and testing program. The goal of the sampling program will be to determine if the proportion of bolts for these unistrut clamps which are not fully tightened is less than 5 percent (i.e., verify adequate installation at a 95-percent confidence level).

This sampling program is similar to the program established to respond to NRC Bulletin 79-02; therefore, the same acceptance criteria is considered appropriate.

More information will be provided in our next report.