

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

NRC REGION II  
ATLANTA, GEORGIA

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November 13, 1981

WBRD-50-390/81-37  
WBRD-50-390/81-36

Mr. James P. O'Reilly, Director  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Region II - Suite 3100  
101 Marietta Street  
Atlanta, Georgia 30303



Dear Mr. O'Reilly:

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - INCOMPLETE DRAWING CONTROL COMPUTER  
PRINTOUT - WBRD-50-390/81-37, WBRD-50-391/81-36 - THIRD INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. V. Crlenjak on March 31, 1981, in accordance with 10 CFR 50.55(e) as NCR WBN MEB 8102. Our first interim report was submitted on April 30, 1981; and our final report was submitted on June 9, 1981. As discussed with Inspector R. V. Crlenjak on October 13, 1981, TVA has determined that further interim reports will be necessary to resolve this item. Enclosed is our third interim report. We expect to provide further information by January 22, 1982.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*L. M. Mills*  
L. M. Mills, Manager  
Nuclear Regulation and Safety

Enclosure  
cc: Mr. Victor Stello, Director (Enclosure)  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

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## ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2  
INCOMPLETE DRAWING CONTROL COMPUTER PRINTOUT  
WBRD-50-390/81-37, WBRD-50-391/81-36  
10 CFR 50.55(e)  
THIRD INTERIM REPORT

### Description of Deficiency

TVA contract administration personnel utilize a computer printout, which lists all pertinent hanger drawings, as a tool to track vector drawing submittals for piping greater than 2 inches in piping systems supplied under the principal piping contract (74C38-83015). The printout is identified as the Materials Management System (MAMS)-Engineering Requirements Planning (ERP)-7, Status Report of Technical Information Watts Bar, printout. In December 1980 TVA started using the MAMS printout as the controlling document for construction drawing control. Watts Bar construction personnel were instructed to use the MAMS printout because the Drawing Information System (DIS) printout did not list all of the hanger drawings supplied by Bergen-Paterson (B-P) because some of the drawing sepia's were not of microfilmable quality. TVA does not formally accept such drawings until the quality of the sepia is improved to a microfilmable quality. Earlier, it was discovered that the printout was missing some hanger drawings, and some drawings which were listed did not have any approval status designated. TVA design personnel are required to input information into the MAMS to keep an up-to-date printout of all hanger drawings. Apparently, this was not done, and incomplete printouts were issued to construction to be used as the controlling document.

After TVA decided that there was no reliable method available to update and correct the MAMS printout, they changed the drawing control document for use by construction from the MAMS printout to the B-P drawing index sheets. The B-P drawing index is maintained by B-P engineering personnel and is submitted to TVA with each B-P engineering submittal package. The index is revised each time a drawing listed on the index sheets is revised. After using the B-P index, it was determined that the index was not QA verifiable. TVA has decided to return this nonconformance to an interim status because of the need to change the original corrective action in order to develop a program that is QA verifiable.

### Interim Progress

TVA will establish a system that records the TVA letter number sent to B-P that approved the current revision of each hanger on contract 74C38-83015 that has not been given a later revision (and approval) by TVA. The supports which were designed by EDS Nuclear, Incorporated, but had material for the support furnished by Bergen-Paterson are not addressed in this report, but will be discussed in the final report.

The appropriate design and construction management personnel have been informed of the upcoming change in the drawing control. This has been done in order to assure that all personnel involved in either the installation of hangers or the maintenance of hanger drawings are aware of the change. This action was also taken to assure that any hanger that was installed, and any hanger record that was generated, using the MAMS printout, was reviewed to ensure that those actions were correct.

TVA has decided to stamp the current revision of all Bergen-Paterson hanger drawings with an approval stamp except for those drawings that have been given a later revision (and approval) by TVA. As a back up to this stamping process, there has been an index generated that is QA verifiable that will provide TVA with a more effective hanger QA program. TVA will have all drawings microfilmed and distributed in accordance with established engineering procedures.

TVA is currently reviewing the measures taken to prevent a recurrence of this problem to ensure that they are the best means available to prevent this problem on future plants. The results of this evaluation will be addressed in a future report.