

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

September 30, 1982

WBRD-50-390/81-99

WBRD-50-391/81-93

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 - LOADING CRITERIA FOR STRUCTURAL
STEEL AND SUPPORTS - WBRD-50-390/81-99, WBRD-50-391/81-93 - FOURTH INTERIM
REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
R. V. Crlenjak on November 17, 1981 in accordance with 10 CFR 50.55(e) as
NCR 3659R R1. Interim reports were submitted on December 18, 1981 and
March 3 and June 7, 1982. Enclosed is our fourth interim report. We
expect to submit our next report on or about March 10, 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
LOADING CRITERIA FOR STRUCTURAL STEEL AND SUPPORTS
NCR 3659 R1
WBRD-50-390/81-99, WBRD-50-391/81-93
10 CFR 50.55(e)
FOURTH INTERIM REPORT

Description of Deficiency

Several notes in general notes drawing series 47A050 and 47A058 permit TVA's Division of Construction (CONST) to make attachments or alterations to building and miscellaneous steel and cable tray supports (baseplates are addressed in NCR WBNCEB8203) for supports of all types. These notes specify loading criteria that must be complied with. The loading criteria did not clearly define the consideration of cumulative loads for construction application; and it was also misinterpreted by CONST.

The apparent cause was inadequate review of design notes for clarity by TVA's Division of Engineering Design (EN DES) and inadequate review by CONST to assure uniform interpretation and application of the notes.

Interim Report

EN DES has revised and deleted some general notes to clarify the notes for the drawings in question. A field review has been initiated by EN DES and CONST personnel to evaluate attachments to structural steel, miscellaneous steel, etc. By a newly established program, EN DES now identifies significant attachments to structural steel and CONST maps out all these significant attachments to structural steel platforms and forwards them to EN DES for evaluation. EN DES evaluates the structural steel platforms and maintains a permanent key drawing record to evaluate future attachments identified to EN DES by the Field Change Request (FCR) or variance procedure. At present, the field mapping of platform steel is approximately 80 percent complete. CONST is expected to complete the mapping for the remaining 20 percent by September 30, 1982. EN DES is 20 percent complete on their unit 1 evaluation and plans to complete the evaluation by December 30, 1982. On unit 2, CONST has scheduled completion of mapping by December 30, 1982.

EN DES has written ECN 3255 to revise all typical drawings shown as attaching to structural steel with a note that reads, "All attachments to structural steel must be submitted to EN DES civil group for evaluation."