

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

82 MAR 5 AID 240
March 3, 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 - SECOND 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. Our first interim report was submitted on December 18,
1981. Enclosed is our second interim report. We expect to submit our next
report by June 7, 1982.

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 Regulation and Safety

Enclosure

cc: Mr. Richard C. DeYoung, 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
LOADING CRITERIA FOR STRUCTURAL STEEL AND SUPPORTS
WBRD-50-390/81-99, WBRD-50-391/81-93
10 CFR 50.55(e)
SECOND 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, cable tray supports, and baseplates 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 Progress

EN DES has revised and deleted some general notes to clarify the notes in question. In addition, a field review was conducted by EN DES and CONST personnel to evaluate attachments to building and miscellaneous steel, and baseplates for supports of all types. Potentially overstressed structures were identified and CONST was requested to submit marked structural drawings and identification of the pipe supports attached to EN DES for evaluation. CONST will then identify any additional attachments made to these structures after transmittal of the marked prints. These attachments will apply to engineered supports as well as typicals.

After EN DES evaluation of the attachment to structures, a final walkdown will be made by EN DES in conjunction with CONST to ensure that no additional unidentified attachments have been added to the structures.

In addition, a review of attachments of typicals and engineered supports to cable tray supports will be conducted.