

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

March 8, 1983

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 2900
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

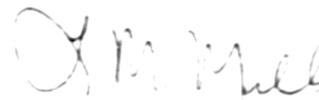
WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - LOADING CRITERIA FOR STRUCTURAL
STEEL AND SUPPORTS - WBRD-50-390/81-99, WBRD-50-391/81-93 - FIFTH INTERIM
REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
R. V. Crienjak 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, June 7, and September 30, 1982. Enclosed is our fifth interim
report. We expect to submit our next report on or about June 7, 1983.

If you have any questions, please get in touch with R. H. Shell at
FTS 858-2683.

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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1 described on page 8 for water hammer?

2 A (WITNESS ANDERSON) Excuse me. Could you
3 classify who is challenging?

4 Q Well, the special inspection team found so many
5 things wrong in the Diesel Generator Building and the
6 methods by which designs were approved and then installed
7 was one of the big parts of their concerns as a result
8 of that inspection. On page 8 you are telling us what
9 your procedure is for checking and reviewing your design
10 process and making sure you have adequate engineering
11 designs and how you go about getting it from the design
12 to the construction stage, and it is precisely that
13 sequence of events which the NRC inspection found wanting
14 to an amazing degree in their inspection of the Diesel
15 Generator Building, which was then translated into the
16 fact that this was something that was pervading a great
17 deal of the plant.

18 So, can you attest to the fact, on page 8, that
19 this is indeed what is happening as far as the installa-
20 tion of water hammer is concerned?

21 MS. WRIGHT: Mr. Chairman, Staff objects. Mrs.
22 Sinclair hasn't asked the witness to agree with her premise
23 for asking the question.

24 She made a speech, but she didn't ask him whether
25 he agreed or disagreed.

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MR. GILOMEN: Applicants would agree with that. And I can appreciate Miss Sinclair's difficulty, but it's a legal question of foundation for the question you're asking, and we believe it could be very simply circumvented by asking the witness, as Staff has pointed out, to agree with the premise and then taking your question from that point. That gives you the proper foundation to ask the ensuing question.

300 7TH STREET, S.W., REPORTERS BUILDING, WASHINGTON, D.C. 20024 (202) 554-2345

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ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2
LOADING CRITERIA FOR STRUCTURAL STEEL AND SUPPORTS
NCR 3659R R1
WBRD-50-390/81-99, WBRD-50-391/81-93
10 CFR 50.55(e)
FIFTH 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 Progress

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. In this review EN DES has identified all significant attachments to structural steel and CONST has mapped out all of these significant attachments to structural steel platforms and forwarded them to EN DES for evaluation. EN DES is evaluating the structural steel platforms and is maintaining a permanent key drawing record to evaluate future attachments identified to EN DES by the field change request or variance procedure. CONST has completed the mapping for both unit 1 and unit 2. EN DES has completed the evaluation for unit 1 and is approximately 20 percent complete with the evaluation of unit 2. The unit 2 evaluation is expected to be completed by May 1, 1983.

EN DES will 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." Drawing revisions will be made under engineering change notice (ECN) 3255.