

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

35 JAN 10 P 1 : 17 January 7, 1985

BLRD-50-438/82-67, -439/82-60

U.S. Nuclear Regulatory Commission
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - POTENTIALLY OVERSTRESSED EMBEDDED
PLATES - FINAL REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. V. Crlenjak on April 12, 1982 in accordance with 10 CFR 50.55(e) as NCR WBN CEB 8203. Interim reports were submitted on May 18 and July 13, 1982. This deficiency was subsequently expanded to cover Bellefonte, Yellow Creek, and Hartsville Nuclear Plants as NCR GEN CEB 8208. TVA then submitted interim reports dated October 14, 1982, April 4, 1983, and February 14 and June 18, 1984. Our final report on Watts Bar was submitted on May 27, 1983. Enclosed is our final report on Bellefonte.

TVA does not now consider the subject nonconforming condition adverse to the safe operation of the plant. Therefore, we will amend our records to delete the subject nonconformance as a 10 CFR 50.55(e) item.

If you have any questions concerning this matter, please get in touch with R. H. Shell at FTS 858-2688.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

J. A. Homer
for J. W. Hufham, Manager
Licensing and Regulations

Enclosure

cc (Enclosure):

Mr. Richard C. DeYoung, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

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

8503140107 850107
PDR ADOCK 05000438
S PDR

OFFICIAL COPY.

IE 27.11

ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
POTENTIALLY OVERSTRESSED EMBEDDED PLATES
BLRD-50-438/82-67 AND BLRD-50-439/82-60
NCR GEN CEB 8208
10 CFR 50.55(e)
FINAL REPORT

Description of Deficiency

After reviewing Watts Bar Nuclear Plant (WBN) nonconformance report (NCR) 3842R, which was separately reportable (WBRD 50-390/82-14, -391/82-14) and which concerned positioning of expansion anchors near embedded plates with attachments, TVA recognized that one aspect of NCR 3842R needed to be reported separately. This separate concern was that multiple supports had been attached to embedded plates throughout the WBN without a design review of the embedded plates' capability and was identified as NCR WBN SWP 8210 (WBRD-50-390/82-39, -391/82-36). A final report on this item was submitted to NRC on May 27, 1983.

Because the apparent cause of this item was identified as a lack of control procedures and documentation requirements concerning the loading limits of embedded plates, TVA was concerned with the generic aspects of the condition and issued NCR GEN CEB 8208 to investigate this problem's effect on Bellefonte Nuclear Plant (BLN).

Safety Implications

TVA has completed a sampling program of 48 embedded plates with multiple attachments and has determined that the attachments installed to date are adequate. (The sampling program was to originally include 60 plates, but only 48 plates could be identified which had significantly loaded multiple attachments.) The results of the sampling program indicate that an adequate level of safety exists against concrete failure for all plates in the sample. Also, existing drawing notes combined with existing design programs (i.e., squadcheck, field change request, anchor and support variance) are adequate to prevent this type deficiency from developing at BLN. As such, TVA has determined that no safety concern exists for BLN and that 10 CFR 50.55(e) no longer applies.