

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

August 16, 1985

AUG 20 A10: 26

BLRD-50-438/83-22

U.S. Nuclear Regulatory Commission
Region II
Attn: Dr. J. Nelson Grace, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Dear Dr. Grace:

BELLEFONTE NUCLEAR PLANT UNIT 1 - INCORRECT THERMAL DATA IN PROBLEM N4-1RK-A
FROM PROGRAM "EZ" - BLRD-438/83-22 - FINAL REPORT

This subject deficiency was initially reported to NRC-CIE Inspector
Linda Watson on February 16, 1983 in accordance with 10 CFR 50.55(e) as NCR
BLN CEB 8303. This was followed by our interim reports dated March 16, 1983
and April 17, June 21, and December 20, 1984 and April 14, 1985. Enclosed is
our final report indicating that TVA no longer considers this deficiency
reportable under the provisions of 10 CFR 50.55(e).

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. W. Hufham, Manager
Licensing and Risk Protection

Enclosure

cc: Mr. James Taylor, Director (Enclosure)
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Records Center (Enclosure)
Institute of Nuclear Power Operations
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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNIT 1
INCORRECT THERMAL DATA IN PROBLEM N4-1RK-A FROM PROGRAM "EZ"
BLRD-50-438/83-22
NCR BLNCEB8303
10 CFR 50.55(e)

FINAL REPORT

Description of Deficiency

The essential air compressor system has not been qualified for the thermal loading condition evaluated in analysis problem N4-1RK-A. In reviewing the issued analysis problem for design change request (DCR) 2372, the results could not be verified due to the input of unverified thermal data. This was a result of using an unverified program, "EZ," and a lack of verification procedures for the "EZ" program in generating the input data.

Safety Implications

TVA's review of analysis problem N4-1RK-A resulted in the deletion of one compressed air system support although all supports were fully capable of performing their design function with that support in place. In addition, minor changes were made in the loads on 26 other compressed air system supports which did not require any change in the support designs. Consequently, since TVA has determined that the original design was fully capable of performing its required function, no condition adverse to the safe operation of the plant existed with regard to essential air system supports.

In addition, TVA has determined that "EZ" program output does not require verification since its function is to create a data input deck for a piping analysis program which is routinely checked during the normal calculation procedure. A review of similar data inputs and associated problems indicates that the cited deficiency is an isolated case which does not require further corrective action.

Consequently, since no design or quality assurance problem exists, TVA no longer considers this deficiency reportable under the provisions of 10 CFR 50.55(e).