

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

84 FEB 15 1984
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BLRD-50-438/84-07

BLRD-50-439/84-06

U.S. Nuclear Regulatory Commission
Region II

Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANTS UNITS 1 AND 2 - GLOBAL COORDINATES OF MAXIMUM
PIPE MOVEMENTS - BLRD-50-438/84-07, BLRD-50-439/84-06 - FIRST INTERIM
REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
C. A. Julian on January 18, 1984 in accordance with 10 CFR 50.55(e)
as NCR BLN CEB 8308. Enclosed is our first interim report. We expect to
submit our next report by April 26, 1985.

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

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

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

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ENCLOSURE

BELLEFONTE NUCLEAR PLANTS UNITS 1 AND 2
GLOBAL COORDINATES OF MAXIMUM PIPE MOVEMENTS
BLRD-50-438/84-07, BLRD-50-439/84-06
NCR BLN CEB 8308
10 CFR 50.55(e)
FIRST INTERIM REPORT

Description of Deficiency

Bellefonte analysis isometric drawings have a note which relates maximum pipe movements to the global x, y, z directions. These notes are used to evaluate potential interferences at the plant site. Earlier versions of the TPIPE program did not list the maximum movements of the system, so movements were extracted and summed by hand. The analysts obtaining these movements did not note a nonglobal direction. Therefore, a direction on the isometric drawing does not relate to the movement direction in the note. Since nonglobal coordinates were used in many analyses, this interference evaluation effort is erroneous and could lead to incorrect conclusions during the IE Bulletin 79-14 walkdown. The deficiency was discovered during a movement review.

Interim Progress

TVA is in the process of reviewing all Bellefonte analysis isometric drawings and skewed (nonglobal) coordinate systems. The Division of Engineering Design's (EN DES) Civil Engineering Support Branch (CEB) will evaluate the movement in the isometric note against the analyses movements, noting any nonglobal points. The skewed movements will be rotated to the global system and compared against those supplied on the isometrics for interference evaluation, or additional notes will be added to the isometrics to identify the skewed coordinates and the associated maximum movements.