

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

May 8, 1984

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BLRD-50-438/83-31
BLRD-50-439/83-29

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:

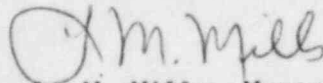
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - ERROR IN SEISMIC DATA USED IN
AUXILIARY-CONTROL BUILDING DESIGN - BLRD-50-438/83-31, BLRD-50-439/83-29 -
FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
R. Carroll on April 6, 1984 in accordance with 10 CFR 50.55(e) as NCR
BLN CEB 8404. Enclosed is our first interim report. We expect to submit
our next report by August 4, 1986.

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 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 PLANT UNITS 1 AND 2
ERROR IN SEISMIC DATA USED IN AUXILIARY-CONTROL BUILDING DESIGN
BLRD-50-438/83-31, BLRD-50-439/23-29
NCR BLN CEB 8404
10 CFR 50.55(e)
FIRST INTERIM REPORT

Description of Deficiency

TVA committed in BLN FSAR section 3.7.1.2, "Design Time History," to base the seismic design response spectra on three statistically independent artificial earthquake records, two horizontal records and one vertical record. We found during a review of main steam valve room B that the Auxiliary-Control Building seismic analysis used only one of the horizontal time histories in both horizontal directions. When the Auxiliary-Control Building spectra was reanalyzed using both horizontal time histories, the east-west peak acceleration, velocity, and displacement values significantly increased.

Interim Progress

TVA has reanalyzed the Auxiliary-Control Building and generated new response spectra. We are checking the reanalysis and will issue a revised report including the revised spectra to all affected Division of Engineering Design (EN DES) organizations. These organizations will then assess the effects of the revised spectra on safety-related structures, systems, and equipment.