

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401  
400 Chestnut Street Tower II

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June 14, 1984

BLRD-50-438/82-21  
BLRD-50-439/82-19

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 - SEISMIC ANALYSIS OF THE  
AUXILIARY-CONTROL BUILDING - BLRD-50-438/82-21, BLRD-50-439/82-19 -  
SIXTH INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector  
Ross Butcher on February 26, 1982 in accordance with 10 CFR 50.55(e) as  
NCR BLN CEB 8201. This was followed by our interim reports dated  
March 26, July 22, September 20, and December 22, 1982 and June 15, 1983.  
Enclosed is our sixth interim report. We expect to submit our next  
report by October 19, 1984.

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

*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 PLANT UNITS 1 AND 2  
SEISMIC ANALYSIS OF THE AUXILIARY-CONTROL BUILDING  
NCR BLN CEB 8201  
BLRD-50-438/82-21, BLRD-50-439/82-19  
10 CFR 50.55(e)  
SIXTH INTERIM REPORT

Description of Deficiency

The original seismic analysis of the Bellefonte Nuclear Plant Auxiliary-Control Building was performed in 1973 and was based on issued concrete general outline feature drawings that were not intended for use by the Division of Construction (CONST). Subsequently, outline drawings for use by CONST were issued and, in portions of the building, significant changes in the structural configuration were made. However, the seismic analysis personnel were unaware of the changes made by the later drawings. While assessing the potential changes in the original seismic analysis, that the location of the postaccident sampling facility in this structure would make, the discrepancy between the original and later outline drawings was noted. Preliminary investigations indicate potential significant changes in the structural responses. Consequently, the results of the present seismic analysis do not adequately reflect those of the current geometry. A revised seismic analysis is required.

The cause of the deficiency was a failure to coordinate design changes with appropriate organizations in accordance with the Division of Engineering Design Procedure EP 4.01.

Interim Progress

TVA has completed its action to prevent recurrence, but is still evaluating the other category I structures at Bellefonte. The Division of Engineering Design's Engineering Procedure 3.03 has been revised to assure that all drawing changes affecting the seismic analysis of category I structures are coordinated with the Civil Engineering Support Branch seismic analysis personnel. Adherence to this revised procedure will prevent this type problem from recurring.