

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

~~December 23, 1982~~

Sept 21, 1982

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, Suite 3100
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

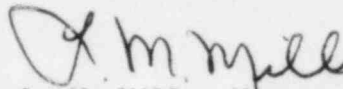
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - SEISMIC ANALYSIS OF THE
AUXILIARY-CONTROL BUILDING - BLRD-50-438/82-21, BLRD-50-439/82-19 -
THIRD INTERIM REPORT

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 and July 22, 1982. Enclosed is our third interim report. We
expect to submit our next report by December 23, 1982.

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, 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

8209240169 820921
PDR ADOCK 05000438
S PDR

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)
THIRD 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

A report documenting the revised seismic analysis has been completed and is in the process of being issued to affected organizations within TVA, because this report indicates the need to make some minor structural additions. Existing procedures are being revised to ensure that proposed structural modifications are evaluated for their effect on the seismic analyses. Other structures at Bellefonte Nuclear Plant will be evaluated against the seismic analysis models to determine if the problem extends to them.

Studies are being made to determine if other TVA nuclear plants are affected.