

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401  
400 Chestnut Street Tower II

December 27, 1982

BLRD-50-438/82-79

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:

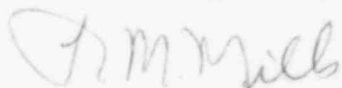
BELLEFONTE NUCLEAR PLANT UNIT 1 - DISRUPTION AND COLLAPSE OF SODIUM  
HYDROXIDE STORAGE TANK - BLRD-50-438/82-79 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector  
R. V. Crlenjak on November 24, 1982 in accordance with 10 CFR 50.55(e) as  
NCR 2082. Enclosed is our first interim report. We expect to submit our  
next report on or about June 20, 1983.

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

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ENCLOSURE  
BELLEFONTE NUCLEAR PLANT UNIT 1  
DISRUPTION AND COLLAPSE OF SODIUM HYDROXIDE STORAGE TANK  
10 CFR 50.55(e)  
BLRD-50-438/82-79  
NCR 2082  
FIRST INTERIM REPORT

Description of Deficiency

During a filling operation of the sodium hydroxide storage tank, TVA site personnel discovered the following damage:

1. The base plate for the supports was lifted from the foundation.
2. The concrete foundation was broken.
3. The sway struts at three locations around the tank were sheared in half.

At the time of these discoveries the tank was full of water and overflowing, resulting in the filling of the adjacent expansion loop with water. The tank was drained and additional investigation revealed the tank had collapsed on three sides and the associated piping was sprung.

Interim Progress

A site investigation team was organized to determine the events leading to the collapse, the possible causes of the failure, and the appropriate corrective action. The investigation is complete and the site team has prepared a report which is in the review and approval cycle. Pertinent information from the investigation report will be included in the next report.