

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

October 7, 1982

BLRD-50-438/82-07
BLRD-50-439/82-07

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 - ATTACHMENT OF PIPE SUPPORTS
TO 6-INCH STRIP PLATES - BLRD-50-438/82-07, BLRD-50-439/82-07 - FINAL
REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
R. V. Crlenjak on December 31, 1981 in accordance with 10 CFR 50.55(e)
as NCR BLN BLP 8133. This was followed by our interim reports dated
January 29, April 16, and August 2, 1982. Enclosed is our final report.

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

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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
ATTACHMENT OF PIPE SUPPORTS TO 6-INCH STRIP PLATES
NCR BLN BLP 8133
BLRD-50-438/82-07, BLRD-50-439/82-07
10 CFR 50.55(e)
FINAL REPORT

Description of Condition

Six-inch wide embedded strip plates with a single row of 3/4-inch-diameter Nelson studs were provided in the Reactor Buildings for the attachment of instrumentation and conduit supports. However, 149 ITI Grinnell pipe supports and TVA typical seismic pipe supports have been installed attached to the strip plates. The apparent cause of this deficiency was a lack of controls which would restrict the use of the strip plates or would assure review of field installed supports before installation.

Safety Implications

With the six-inch wide embedded strip plates lacking sufficient capacity in some cases to withstand the applied seismic pipe support loads, the supported pipe could fail or cease to serve its intended function. This could result in failure to a safety class piping system and adversely affect the safety of operation of the plant.

Corrective Action

Of the 149 supports found to be attached to the embedded strip plates, six were determined to be unacceptable and ECN 1572 has been issued to accomplish the required modifications for the unacceptable supports. Field modifications are scheduled for completion by October 1, 1983. To prevent a recurrence, Construction QC procedure 6.17 has been revised to establish pre-work hold points to ensure that all future installations will be reviewed and approved by design personnel.