

USNRC REGION II
ATLANTA, GEORGIA
CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II
82 APR 27 AT: 21
April 22, 1982

BLRD-50-438/82-27
BLRD-50-439/82-24

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 - INSOLUBLE GLUE USED FOR PURGE DAMS
IN STAINLESS STEEL PIPING - BLRD-50-438/82-27, BLRD-50-439/82-24 - FIRST
INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
R. V. Crlenjak on March 22, 1982 in accordance with 10 CFR 50.55(e) as
NCR 1725. Enclosed is our first interim report. We expect to submit our
next report by June 21, 1982.

If you have any questions concerning this matter, please get in touch with
R. H. Shell at FTS 858-2688.

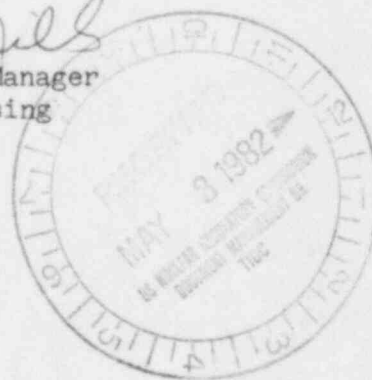
Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills
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, DC 20555



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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
INSOLUBLE GLUE USED FOR PURGE DAMS IN STAINLESS STEEL PIPING

NCR 1725

BLRD-50-438/82-27, BLRD-50-439/82-24

10 CFR 50.55(e)

FIRST INTERIM REPORT

Description of Deficiency

Some glue used in installation of purge dams in stainless steel piping has proved insoluble during flushing activities, and minor glue residual remains in piping at purge dam locations. This problem was anticipated during the resolution of NCR 835. The insoluble glue residual has been identified as Elmers Glue-All used before nonconformance report (NCR) 835 and Elmers School Glue that has been affected by heat from welding activities. When purge dams are located too close to the welds, the currently used and normally soluble Elmers School Glue will char and become insoluble.

Interim Progress

The disposition of NCR 835 directed discontinuing the use of Elmers Glue-All and recommended using Elmers School Glue. A minimum distance between welds and purge dams will be specified in order to prevent charring of the Elmers School Glue.

TVA's Singleton Laboratory has performed chemical analyses on glue residual removed or flushed from several systems. These analyses are currently being evaluated for what (if any) harmful effects the glue may have on stainless steel piping. The potential for harmful effects of glue residual breaking loose during plant operation is also being evaluated.