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USNRC REGION II  
ATLANTA, GEORGIA  
82 MAY 20 9:03

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

May 18, 1982

BLRD-50-438/82-05

BLRD-50-439/82-05

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:

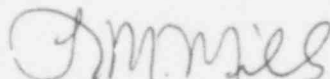
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - SEISMIC SUPPORT LUGS ON 2-INCH OR  
LESS STAINLESS STEEL PIPE BLRD-50-438/82-05, BLRD-50-439/82-05 - THIRD  
INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector  
R. V. Crlenjak on December 24, 1981 in accordance with 10 CFR 50.55(e) as  
NCR 169G. This was followed by our interim reports dated January 21 and  
March 23, 1982. Enclosed is our third interim report. We expect to submit  
our next report by August 13, 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, DC 20555

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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2  
SEISMIC SUPPORT LUGS ON 2-INCH OR LESS STAINLESS STEEL PIPE  
NCR 1690  
BLRD-50-438/82-05, BLRD-50-439/82-05  
10 CFR 50.55(e)  
THIRD INTERIM REPORT

Description of Deficiency

Because of the relatively large amount of weld required for lug attachment, it is suspected that stainless steel pipe (2-inch diameter and less) in the areas where lugs are attached may not meet ASME Code parts NB-, NC-, and ND-4200 ovality tolerances and may exhibit burn-through or oxidation.

Interim Progress

Eight 5-inch long weld mockups using seismic lugs 1/4" by 1/2" by 2" long and type 304 stainless steel schedule 40 pipe were forwarded to Singleton Materials Laboratory for metallurgical evaluation. These consist of duplicate sets of four, which include 2, 1-1/2, 1 and 1/2" nominal diameter pipe. One of the sets has been cut longitudinally for examination of inside surfaces.

These sections were cut from mockups originally 15" long to provide a pipe length constraint, as opposed to previous mockups welded in 5" lengths. The ends of the mockups were covered by 1/8" thick plate sections before welding (by tack welding) to prevent visual inside access during welding.

In addition to the above mockups, four standard butt welds of identical pipe material of the above diameters were forwarded to Singleton Materials Laboratory for evaluation.

TVA is still in the process of evaluating the subject deficiency. Singleton Materials Laboratory is examining the weld mockups and will be able to supply more information when these examinations are complete.