

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

October 14, 1982

BLRD-50-438/81-45  
BLRD-50-439/81-47

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USNRC REGION II  
ATLANTA, GEORGIA

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:

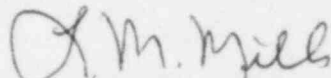
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - DRESSER SAFETY VALVES -  
BLRD-50-438/81-45, BLRD-50-439/81-47 - THIRD INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector D. Quick on July 9, 1981 in accordance with 10 CFR 50.55(e) as NCR BLN NEB 8109. This was followed by our interim reports dated August 7, 1981 and February 17, 1982. Enclosed is our third interim report. We expect to submit our next report by April 11, 1983. We consider 10 CFR Part 21 applicable to this deficiency.

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

Mr. James McFarland (Enclosure)  
Senior Project Manager  
Babcock & Wilcox Company  
P.O. Box 1260  
Lynchburg, Virginia 24505

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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2  
DRESSER SAFETY VALVES  
NCR BLN NEB 8109  
BLRD-50-438/81-45, BLRD-50-439/81-47  
10 CFR 50.55(e)  
THIRD INTERIM REPORT

Description of Deficiency

A Dresser safety valve, model 31709NA, tested in Electric Power Research Institute's (EPRI's) safety and relief valve test program apparently suffered unacceptable internal damage during a full pressure steam test. The configuration of piping associated with this valve is similar, but not identical, to that intended for use at Bellefonte; and at this time it is uncertain if the piping configuration or the valve is deficient. The Dresser valves are to be used at Bellefonte as pressurizer safety valves.

The valve was tested June 3, 1981 with the valve set to open at 2480 psia. The valve opened at 15 psi below this set point, chattered severely, and subsequently failed to close properly. Post test inspection of the valve indicated internal damage to components including galling of guide surfaces.

Interim Progress

TVA has received the final series of reports and input from EPRI and B&W on the valve test program. TVA is evaluating this information for its applicability to Bellefonte and to determine the adequacy of the subject valves.