

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401  
400 Chestnut Street Tower II

June 21, 1983

BLRD-50-438/82-81

U.S. Nuclear Regulatory Commission  
Region II  
Attn: Mr. James P. O'Reilly, Regional Administrator  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNIT 1 - OVERPRESSURIZED SYSTEMS DURING  
FLUSHING - BLRD-50-438/82-81 - FINAL REPORT

The subject deficiency was initially reported to NRC-OIE Inspector  
P. E. Fredrickson on November 30, 1982 in accordance with 10 CFR 50.55(e)  
as NCR 2089. This was followed by our interim report dated December 28,  
1982. Enclosed is our final report. TVA does not now consider the subject  
nonconforming condition adverse to the safe operation of the plant.  
Therefore, we will amend our records to delete the subject nonconformance  
as a 10 CFR 50.55(e) item.

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

Records Center (Enclosure)  
Institute of Nuclear Power Operations  
1100 Circle 75 Parkway, Suite 1500  
Atlanta, Georgia 30339

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## ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNIT 1  
OVERPRESSURIZED SYSTEMS DURING FLUSHING  
NCR 2089  
BLRD-50-438/82-81  
10 CFR 50.55(e)  
FINAL REPORT

### Description of Deficiency

During performance of construction flush NBFB, portions of the Chemical Addition and Boron Recover (NB), Makeup and Purification (NV), Demineralized Water (RE), and Waste Disposal (WD) Systems were overpressurized to 225 psig at the low point of the NB System. The apparent cause of the overpressurization was the inadvertent closure of valve 1NV-IFCV-380 in the main flush path in conjunction with a failure to properly throttle the construction pump being used.

### Safety Implications

Drawings showing affected pipe and valves were reviewed and evaluated by TVA's Division of Engineering Design for determination of corrective action. Results of the review and evaluation resulted in a determination that these systems are "use as is." The piping and valves per the NB and NV systems, based on design calculations, were not overstressed. The portions of the RE and WD systems are not safety-related and the design criteria drawings specify hydrostatic testing for these systems up to 225 lb/in<sup>2</sup>. Therefore, the piping and the valves in the RE and WD systems are not in a nonconforming condition. Had this condition remained uncorrected, it could not have adversely affected safe plant operation. Therefore, there are no safety implications to Bellefonte, and TVA no longer considers this item to be reportable under 10 CFR 50.55(e).