

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401  
400 Chestnut Street Tower II

February 18, 1983

BLRD-50-438/83-14  
BLRD-50-439/83-10

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:

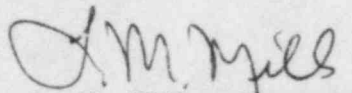
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - MAKEUP AND PURIFICATION LETDOWN  
COOLER INLET/OUTLET PIPING REVERSED - BLRD-50-438/83-14, BLRD-50-439/83-10 -  
FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector  
D. M. Verrelli on January 24, 1983 in accordance with 10 CFR 50.55(e) as  
NCR BLN BLP 8303. Enclosed is our first interim report. We expect to  
submit our next report by December 14, 1983.

If you have any questions, 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

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ENCLOSURE  
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2  
MAKEUP AND PURIFICATION LETDOWN COOLER INLET/OUTLET PIPING REVERSED  
NCR BLN BLP 8303  
BLRD-50-438/83-14, BLRD-50-439/83-10  
10 CFR 50.55(e)  
FIRST INTERIM REPORT

Description of Deficiency

The makeup and purification letdown coolers 1NV-MCLR-008 and 2NV-MCLR-007 are mounted such that makeup/purification letdown line inlet piping is connected to the cooler outlet nozzle, and the outlet piping is connected to the cooler inlet nozzle. The letdown cooler inlet nozzle is provided with an Inconel tube sheet to accommodate the high letdown water temperature. Under the present arrangement, the outlet nozzle of the indicated coolers would be subjected to a condition for which it was not designed.

The condition existed because the design of the piping and the mounting of the coolers was based on opposite hand coolers, while in reality, the coolers are identical. This condition was discovered during a site inspection by Babcock and Wilcox personnel.

Interim Progress

The letdown coolers in question are being inverted to establish the correct inlet/outlet relationship between the letdown lines and the letdown coolers. As a result of this action, the component cooling water and the TVA letdown cooler supports will have to be revised. These design activities are now in progress.