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 FACIL:50-438 Bellefonte Nuclear Plant, Unit 1, Tennessee Valley Au      05000438  
       50-439 Bellefonte Nuclear Plant, Unit 2, Tennessee Valley Au      05000439

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SUBJECT: Revised final deficiency rept re corrosion of carbon steel piping in ERCW sys.Users/components experiencing shortfalls in required flow rates will be reevaluated to determine required flow may be decreased using hydraulic analysis.

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November 22, 1993

BLRD-50-438/81-07  
BLRD-50-439/81-07

10 CFR 50.55(e)

U.S. Nuclear Regulatory Commission  
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Gentlemen:

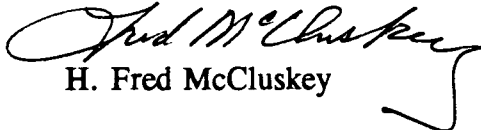
In the Matter of the Application of )  
Tennessee Valley Authority )

Docket Nos. 50-438  
50-439

**BELLEFONTE NUCLEAR PLANT (BLN) - CORROSION OF CARBON STEEL  
PIPING IN THE ESSENTIAL RAW COOLING WATER SYSTEM -  
BLRD-50-438/81-07 AND BLRD-50-439/81-07 - REVISED FINAL REPORT**

The subject deficiency was reported in accordance with 10 CFR 50.55(e)(3) in a final report dated March 20, 1986 as NCR BLN NEB 8010 R0. Enclosed is TVA's revised final report on this subject.

Should there be any questions regarding this information, please telephone Greg Pierce, BLN Site Licensing Manager, at (205) 574-8058.

  
H. Fred McCluskey

Enclosures

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Page 2

November 22, 1993

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## ENCLOSURE 1

### BELLEFONTE NUCLEAR PLANT (BLN) CORROSION OF CARBON STEEL PIPING IN THE ESSENTIAL RAW COOLING WATER SYSTEM (ERCW) BLRD-50-438/81-07 AND BLRD-50-439/81-07

#### REVISED FINAL REPORT

The deficiency and its safety implications have not changed. However, one of the corrective actions has been revised and is described below.

#### REVISION TO CORRECTIVE ACTIONS

In the first paragraph of the final report dated March 20, 1986, one of the corrective actions described was to requalify certain components for lower flows as described in the seventh interim report. This interim report discussed the use of lowering the maximum ERCW supply temperature from 95°F to 90°F which, in turn, increases the heat transfer capacity of the system. Upon further review, BLN has determined that the conservatism found when using the 95°F maximum should be maintained. Therefore, BLN plans to do the following:

Those users/components experiencing shortfalls in the required flow rates will be reevaluated to determine if the required flow may be decreased using hydraulic analysis. If the minimum required flow cannot be achieved, the ERCW system will be modified.

Also, selected components will be evaluated during preoperational flow testing. Procedural requirements will be developed for these components to evaluate the results of periodic testing during plant operation.

Other corrective actions described in the final report remain as stated.

All corrective actions will be completed prior to fuel load for each unit.

**ENCLOSURE 2**  
**BELLEFONTE NUCLEAR PLANT (BLN) UNITS 1 AND 2**  
**BLRD-50-438/81-07 AND BLRD-50-439/81-07**

**COMMITMENTS**

The following corrective actions will be completed prior to fuel load for each unit:

- Those users/components experiencing shortfalls in the required flow rates will be reevaluated to determine if the required flow may be decreased using hydraulic analysis.
- If the minimum required flow cannot be achieved, the ERCW system will be evaluated for potential modifications.
- Selected components will be evaluated during preoperational flow testing.
- Procedural requirements will be developed for these components to evaluate the results of periodic testing during plant operation.