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 MILLS, L.M. Tennessee Valley Authority
 RECIPIENT NAME RECIPIENT AFFILIATION
 O'REILLY, J.P. Region 2, Atlanta, Office of the Director

SUBJECT: Interim Deficiency Rept 1 re essential raw cooling water sys steam flash. Design of essential raw cooling water piping is being evaluated to incorporate ability to deal w/wide spectrum of fouling factors.

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 TITLE: Construction Deficiency Report (10CFR50.55E)

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TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

January 7, 1981

BLRD-50-438/81-01

BLRD-50-439/81-01

Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Region II - Suite 3100
101 Marietta Street
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - POSSIBLE ERCW STEAM FLASH -
BLRD-50-438/81-01 AND BLRD-50-439/81-01 - FIRST INTERIM REPORT

On December 4, 1980, R. W. Wright, NRC-OIE Region II, was informed that the subject nonconformance was determined to be reportable in accordance with 10 CFR 50.55(e) as NCR BLN MEB 8007. Enclosed is our first interim report. We expect to submit our next report by May 12, 1981.

If you have any questions concerning this matter, please get in touch with D. L. Lambert at FTS 857-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager
Nuclear Regulation and Safety

Enclosure

cc: Mr. Victor Stello, Jr., 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
POSSIBLE ERCW STEAM FLASH
BLRD-50-438/81-01
BLRD-50-439/81-01
FIRST INTERIM REPORT

Description of Deficiency

The Essential Raw Cooling Water System is required to remove heat at a design rate of approximately 150×10^6 Btu/hr. Overdesign of the system results in a capacity to remove approximately 200×10^6 Btu/hr. The overdesign of the heat exchange components is included in order to overcome possible head losses due to "dirty" pipes (increased fouling factors). The overdesign could also result in a steam flash which might prohibit flow.

Interim Progress

TVA is currently evaluating its design of essential raw cooling water piping and is working toward a resolution which would incorporate an ability to deal with a wide spectrum of fouling factors.