

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

January 28, 1983

BLRD-50-438/83-09
BLRD-50-439/83-06

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:

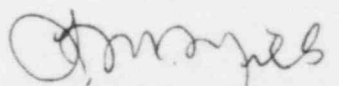
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - BACKFLOW NOT CONSIDERED FOR ERCW
BOOSTER PUMP SHUTOFF - BLRD-50-438/83-09, BLRD-50-439/83-06 - FIRST
INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
L. Watson on December 30, 1982 in accordance with 10 CFR 50.55(e) as
NCR BLN BLP 8233. Enclosed is our first interim report. We expect to
submit our next report by May 6, 1983.

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

8302030490 830128
PDR ADOCK 05000438
S PDR

OFFICIAL COPY

IE 27

ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
BACKFLOW NOT CONSIDERED FOR ERCW BOOSTER PUMP SHUTOFF
BLRD-50-438/83-09, BLRD-50-439/83-06
NCR BLN BLP 8233
10 CFR 50.55(e)
FIRST INTERIM REPORT

Description of Deficiency

During design of the Essential Raw Cooling Water (ERCW) System, consideration was not given to booster pump shutdown and the prevention of backflow. Designers had considered that these pumps would operate continuously and would not require backflow prevention. During loss of offsite power or during routine maintenance the pumps would shut down thereby resulting in backflow. This deficiency was discovered during the design review process. A check valve should have been placed in the discharge line of the booster pumps to prevent backflow when the pump shuts down.

Interim Progress

TVA's Division of Engineering Design has begun revising pipe design drawings and seismic analyses for the addition of a check valve to the discharge of the ERCW booster pumps. This work will be done in accordance with engineering change notice (ECN) 1718.