

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

July 2, 1982

USNRC REGION II  
ATLANTA, GEORGIA

82 JUL 6 4 9: 10

BLRD-50-438/82-42  
BLRD-50-439/82-38

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:

BELLEVILLE NUCLEAR PLANT UNITS 1 AND 2 - EVALUATION OF FLANGE JOINTS -  
BLRD-50-438/82-42, BLRD-50-439/82-38 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector  
R. V. Crlenjak on June 1, 1982 in accordance with 10 CFR 50.55(e) as NCR  
BLN CEB 8205. Enclosed is our first interim report. We expect to submit  
our next report by November 20, 1982. This deficiency has also been  
reported for Watts Bar Nuclear Plant as NCR WBN CEB 8218.

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

*DS Kammer*

*for* 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, DC 20555

FUNCTIONAL COPY

*IE 27*

8207090227 820702  
PDR ADUCK 05000438  
S PDR

ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2  
EVALUATION OF FLANGE JOINTS  
NCR BLN CEB 8205  
BLRD-50-438/82-42, BLRD-50-439/82-38  
10 CFR 50.55(e)  
FIRST INTERIM REPORT

Description of Deficiency

Flanged joints for class 2 and 3 alternate analysis piping systems were not qualified in accordance with the ASME Boiler and Pressure Vessel Code, section III, paragraph NC-3647. This piping was analyzed using TVA's Division of Engineering Design Civil Engineering Branch Report CEB-76-11. However, this report does not delineate guidelines or methods for flange design verification. Also, TVA design criteria WB-DC-40-31.7 does not address flange qualification. Flanged joints are used in a number of safety-related systems such as the Essential Raw Cooling Water System and the Component Cooling Water System.

Interim Progress

TVA is investigating the problem and will develop recommendations to assure class 2 and 3 flanges are qualified in accordance with ASME Section III.

A method of qualification of flanges in alternately analyzed lines will be developed.