

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401  
400 Chestnut Street Tower II

February 25, 1983

WBRD-50-390/82-103  
WBRD-50-391/82-97

83 MAR 2 A 9: 50

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:

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - VENTING OF HIGH POINTS IN ERCW SYSTEM - WBRD-50-390/82-103, WBRD-50-391/82-97 - SECOND INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector C. Burger on September 30, 1982 in accordance with 10 CFR 50.55(e) as NCR WBN MEB 8202. Our first interim report was submitted on October 28, 1982. Enclosed is our second interim report. We expect to submit our next report on or about April 29, 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*  
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

8303040545 830225  
PDR ADOCK 05000390  
S PDR

OFFICIAL COPY

16 27

## ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2  
VENTING OF HIGH POINTS IN ERCW SYSTEM  
NCR WBN MEB 8202  
WBRD-50-390/82-103, WBRD-50-391/82-97  
10 CFR 50.55(e)  
SECOND INTERIM REPORT

### Description of Deficiency

Air vents are provided at high points of piping systems to purge air trapped during initial filling, operation, or following maintenance functions. Manual vents are generally acceptable; however, TVA has determined that air may come out of solution due to heating in several safety-related coolers supplied with essential raw cooling water under accident conditions. Since access is restricted under such conditions, the manual vents would be unsuitable for these applications.

No analysis has been performed to identify the points in the system, if any, where automatic venting will be required. The cause of this deficiency is incomplete consideration of all design bases during the production of design criteria.

### Interim Progress

TVA is nearing completion of its evaluation of the potential for impairment of ERCW system performance due to liberation of dissolved gases within the piping system during accident operation. Preliminary discussions have been held with potential suppliers in the event that air release valves will need to be added.

More information will be forwarded in our next report.