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 50-439 Bellefonte Nuclear Plant, Unit 2, Tennessee Valley Au 05000439  
 AUTH. NAME AUTHOR AFFILIATION  
 \* Tennessee Valley Authority  
 RECIPIENT AFFILIATION

SUBJECT: Interim deficiency rept re two welds found lacking sufficient internal purge, during rework operations of chemical addition & boron recovery sys. Caused by inadequate maint. Program being developed to check purging process.

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

NOTES:

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	EDO & STAFF	07	1	1	EQUIP QUAL BR16		1	1	
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	<del>REG FILE</del>	01	1	1	RUTHERFORD, W, IE		1	1	
	STANDRDS DEV	11	1	1					
EXTERNAL:	ACRS	24	16	16	LPDR	03	1	1	
	NSIC	04	1	1					

JUL 30 1980

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

July 23, 1980

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 - LACK OF INTERNAL PURGE ON  
TWO WELDS IN CHEMICAL ADDITION AND BORON RECOVERY SYSTEM - NCR 1171 -  
THIRD INTERIM REPORT

The subject nonconformance was initially reported to NRC-OIE Inspector J. D. Wilcox on April 17, 1980, in accordance with 10 CFR 50.55(e). Interim reports were submitted on May 16, 1980, and June 3, 1980. Enclosed is our third interim report. We expect to submit our next written report by December 1, 1980.

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  
LACK OF INTERNAL PURGE ON TWO WELDS  
IN CHEMICAL ADDITION AND BORON RECOVERY SYSTEM  
NCR 1171  
10 CFR 50.55(e)  
THIRD INTERIM REPORT

Description of Deficiency

During routine rework operations of chemical addition and boron recovery (CA&BR) system, it was discovered that two welds (ONB-00367 and ONB-00368) had evidence of lack of sufficient internal purge. The apparent cause was inadequate maintenance of purge during root and/or subsequent filler passes. These welds were originally made in February and March of 1978.

In the course of reviewing the CA&BR system, TVA's investigation revealed sugaring of other stainless steel pipe welding that was not originally covered by the NCR. It appears that sugaring of welds on stainless steel pipe caused by lack of internal purge may be a generic concern at Bellefonte.

Interim Progress

TVA has identified all stainless steel welds made at Bellefonte to date. TVA is in the process of developing a program to check this concern and delineate corrective action to preclude repetition of this type deficiency.