TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

January 28, 1983

YCRD-50-566/81-06
YCRD-50-567/81-04

U.S. Nuclear Regulatory Commission
Region II
ATTN: James P. O'Reilly, Regional Administrator
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

YELLOW CREEK NUCLEAR PLANT UNITS 1 AND 2 - DEFICIENT WELDS ON COMPONENT COOLING WATER HEAT EXCHANGERS - YCRD-50-566/81-06, YCRD-50-567/81-04 - SECOND REVISED FINAL REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. V. Crlenjak on March 6, 1981 in accordance with 10 CFR 50.55(e) as NCR YC-160. This was followed by our first interim report dated April 7, 1981, our final report dated October 6, 1981, our revised final report dated November 4, 1981, and our first supplemental report dated December 29, 1981. Enclosed is our second revised final report. TVA does not now consider the subject nonconforming condition adverse to the safe operation of the plant. Therefore, TVA will amend our records to delete the subject nonconformance as a 10 CFR 50.55(e) or 10 CFR 21 item.

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

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ENCLOSURE
YELLOW CREEK NUCLEAR PLANT UNITS 1 AND 2
DEFICIENT WELDS ON COMPONENT COOLING WATER HEAT EXCHANGERS
YCRD-50-566/81-06, YCRD-50-567/81-04
10 CFR 50.55(e)
SECOND REVISED FINAL REPORT

Description of Deficiency

During an NRC inspection of the component cooling water heat exchangers at the Yellow Creek Nuclear Plant, it was reported that various welding deficiencies existed on the welds and base metal for the 24" stainless steel nozzles and manhole to exchanger welds. The various deficiencies noted were arc strikes, weld splatter, slag, overlap, lack of fusion, undercut, and excessive weld metal. The component cooling water heat exchangers were manufactured by the Joseph Oat Corporation, Camden, New Jersey, and purchased by TVA from Combustion Engineering, Windsor, Connecticut.

Safety Implications

The Component Cooling System (CCS) is designed to remove heat from the reactor auxiliary components and engineered safety features components to the Essential Raw Cooling Water System. The component cooling water heat exchangers represent an important part of the CCS. Failure or partial failure of these heat exchangers would decrease the efficiency and effectiveness of the CCS, thus affecting the proper operation of auxiliary as well as Engineered Safety Feature (ESF) system components.

Corrective Action

TVA has completed its investigation of the subject deficiency. The defects were removed by grinding. After grinding a visual examination was performed. All deficiencies were evaluated by TVA and the vendor against the applicable specifications and found to be acceptable. The final wall thicknesses (after grinding) were also evaluated and found to meet requirements. Therefore, TVA believes that defects, as described above, were cosmetic in nature and cause no adverse safety implications. We no longer consider 10 CFR 50.55(e) or 10 CFR 21 applicable.