

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

August 10, 1982

BLRD-50-438/82-30

BLRD-50-439/82-27

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 - DEFECTS IN RPS AND ESFAS MODULES
SUPPLIED BY BAILEY METER COMPANY - BLRD-50-438/82-30, BLRD-50-439/82-27 -
SECOND INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector J. Bryant on April 14, 1982 in accordance with 10 CFR 50.55(e) as NCR 1795. This was followed by our first interim report dated May 11, 1982. Related NCR 1860 was also determined to be reportable in accordance with 10 CFR 50.55(e). Enclosed is our second interim report. We expect to submit our next report by October 29, 1982. We consider 10 CFR Part 21 applicable to this deficiency.

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

D S 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

Mr. James McFarland (Enclosure)
Senior Project Manager
Babcock & Wilcox Company
P.O. Box 1260
Lynchburg, Virginia 24505

ENCLOSURE
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
DEFECTS IN RPS AND ESFAS MODULES SUPPLIED BY BAILEY METER COMPANY
NCR'S 1795 AND 1860
BLRD-50-438/82-30, BLRD-50-439/82-27
10 CFR 50.55(e)
SECOND INTERIM REPORT

Description of Deficiency

Nonconformance report (NCR) 1795 deals with connector and support brackets for the printed subcircuit boards in the plug-in modules of the Reactor Protection System (RPS) and the Engineered Safety Features Actuation System (ESFAS). These brackets have stress fractures and show evidence of having been glued. This deficiency was discovered during routine surveillance inspection of the modules. Approximately 500 connector and support bracket assemblies are involved. The same problem has also been found in the non-Class IE Protection System Auxiliary Cabinets.

Subsequent inspection has identified (NCR 1860) additional problems with approximately 150 modules in the RPS and ESFAS that have built-in indicators, both flow and temperature type. In these type modules, there is a general distribution of built-in indicators which have cracked housings, loose terminals, damaged terminal studs, improper size terminals used on 24AWG wire, and generally poor quality crimps.

The apparent cause of the deficiencies detailed in both NCRs is poor assembly by the module manufacturer, Bailey Meter Company of Kendrick, Ohio, a subcontractor of Babcock and Wilcox.

Interim Progress

TVA has sent NCR 1795 to Babcock & Wilcox for their review and recommended disposition and is awaiting B&W's reply. TVA is in the process of sending NCR 1860 to B&W for their review. Upon receipt of B&W's recommendations, TVA will determine appropriate corrective action.