

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

April 19, 1983

BLRD-50-438/83-05

U.S. Nuclear Regulatory Commission
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNIT 1 - UNCONTROLLED PARTS FOR BATTERY CHARGERS
FROM POWER CONVERSION PRODUCTS, INC. - BLRD-50-438/83-05 - FINAL REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
L. Watson on December 17, 1982 in accordance with 10 CFR 50.55(e) as
NCR BL-2-P. This was followed by our first interim report dated
January 17, 1983. Enclosed is our final report. 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, D.C. 20555

Records Center (Enclosure)
Institute of Nuclear Power Operations
1100 Circle 75 Parkway, Suite 1500
Atlanta, Georgia 30339

OFFICIAL COPY

8304260297 830419
PDR ADOCK 05000438
S PDR

TC 27

ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNIT 1
UNCONTROLLED PARTS FOR BATTERY CHARGERS FROM POWER CONVERSION PRODUCTS, INC.
NCR BL-2-P
BLRD-50-438/83-05
10 CFR 50.55(e)
FINAL REPORT

Description of Deficiency

Amplifier boards (replacement parts) purchased for the Class IE 125V dc battery chargers were ordered by vendor part number from Power Conversion Products, Inc. (PCP), Charlotte, North Carolina. The same part number is also common to the non-Class IE 24V dc, 48V dc, and 125V dc battery chargers; however, the amplifier boards are actually modified by the vendor for use in each respective type of charger. The failure of the vendor to identify the differences between the amplifier boards caused the wrong amplifier board to be placed in the Class IE 125V dc battery charger. When the board was inserted into the charger a fluctuation in current level was noted. This fluctuation was from 0 to 5 amperes. Since the chargers were only loaded to 5 amperes this fluctuation was only a small percentage of the 200 amperes of rated current of the chargers.

Safety Implications

The wrong amplifier card resulted in erratic operation of the charger. This could result in an improperly or inadequately charged battery which in turn could lead to a failure of safety-related systems as this battery is the vital dc power source for safety-related equipment in case of a loss of offsite power.

Corrective Action

The corrective action consists of returning the incorrect board and replacing it with the proper one. PCP has supplied a new part number which is unique to boards for the 125V dc class 1E battery chargers. The new board has been received and functions correctly. Revised drawings showing the correct amplifier board number as 91-3269 have been distributed. To prevent recurrence, vendor manual parts lists have been revised to distinguish between parts to be used on the different battery chargers. Also, TVA has instructed PCP to be more thorough in their drawing checking procedures. All corrective action has been completed.