GULF STATES UTILITIES COMPANY
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April 13, 1984
RBG-17585
File Nos. G9.5, G9.25.1.1

Mr. John T. Collins, Regional Administrator
U. S. Nuclear Regulatory Commission
Region IV, Office of Inspection and Enforcement
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011

RECEIVED
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Dear Mr. Collins:

River Bend Station Unit 1
Docket No. 50-458
Final Report/DR-112

On August 9, 1983, GSU notified Region IV by telephone that it had determined DR-112 concerning Class 1E battery chargers supplied by Power Conversion Products, Incorporated to be reportable under 10CFR50.55(e). On September 9, 1983, GSU provided an interim thirty-day written report. The attachment to this letter is GSU's final report pursuant to 10CFR50.55(e)(3) with regard to this deficiency.

Sincerely,

William J. Leeds Jr.

for J. E. Booker
Manager-Engineering,
Nuclear Fuels & Licensing
River Bend Nuclear Group

JEB/PJD/kt

cc: Director of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

NRC Resident Inspector-Site

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ATTACHMENT

DR-112/Power Conversion Products
Class 1E Battery Chargers

Description and Background of the Deficiency

This deficiency concerns poor workmanship on Class 1E battery chargers furnished by Power Conversion Products, Inc. While performing corrective action for damaged and missing components noted by Stone & Webster (S&W) Field Quality Assurance Inspectors in Class 1E battery charger 1ENB[3]*CHG1B, other samples of poor workmanship, i.e., missing components, poor solder joints, and loose cable terminations were in evidence. These deficiencies were not detected by S&W Product Quality Assurance in the shop but were discovered prior to connecting the Class 1E battery chargers to Class 1E 125-V batteries. The River Bend Station design includes only three affected Class 1E chargers (1ENB*CHG1A, 1ENB*CHG1B, 1BYS*CHG1D).

Safety Implication

The Class 1E 125-V dc distribution system furnishes power to the Class 1E uninterruptible instrument buses, Class 1E ac switchgear, and Class 1E motor control center, which controls the reactor core isolation cooling valves. GSU concludes that had the missing components, poor solder joints, and loose cable terminations on Class 1E battery chargers remained uncorrected, it could have adversely affected the safe operations of the plant by degrading the Class 1E 125-V system.

Corrective Actions

Nonconformance and Disposition (N&D) Report Numbers 3418, 3514, and 3580 were issued. Corrective action for damaged and missing components in Class 1E battery chargers 1ENB*CHG1A, 1ENB*CHG1B, and 1BYS*CHG1D included replacing missing amplifier boards and ammeters, repairing poor solder joints using the vendor's standards, and replacing loose terminal lugs with properly sized lugs. The vendor drawings are being compared with the corrected as-built condition and will be revised as necessary.

Power Conversion Proudcts has revised its Quality Assurance Program to include better training for its employees in many areas of workmanship including crimping of lugs and the proper size lugs to be used. They have also revised their program to include additonal training for their inspectors so that they will be able to inspect for any workmanship defects.