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RECIP.NAME RECIPIENT AFFILIATION
SPENCER,G.S. Region 5, San Francisco, Reactor Construction & Engineer

SUBJECT: Revision 1 to final deficiency rept re mechanical interlock device on 48/125 volt dc battery charger cabinet supplied by Power Conservation Products,initially reported on 801023. Design change packages issued to implement design fix. NRC/A 1

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ARIZONA PUBLIC SERVICE COMPANY
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February 6, 1981
ANPP-17245-BSK/JAR

U. S. Nuclear Regulatory Commission
Region V
Walnut Creek Plaza - Suite 202
1990 North California Boulevard
Walnut Creek, California 94596

Attention: Mr. G. S. Spencer, Chief
Reactor Construction and
Engineering Support Branch

Subject: Final Report
A 50.55(e) Reportable Condition Relating to the Mechanical Interlock Device on the 48/125 Volt DC Battery Charger Cabinet Supplied by Power Conversation Products
File: 81-019-026; D.4.33.2

Reference: (1) Telephone Conversation between J. Eckhardt and J. E. Cook on October 23, 1980 (DER 80-31)

(2) Final Report, Letter ANPP-16692-BSK/JAR, dated November 5, 1980

Dear Sir:

Attached, is Revision 1 of the final written report of the reportable deficiency, under 10CFR50.55(e), referenced above. Revision 1 incorporates the second battery charger cabinet which was inadvertently overlooked during preparation of the original final report. Therefore, Revision 1 replaces the original final report transmitted by Reference (2).

Very truly yours,

E. E. Van Brunt/JKR

E. E. Van Brunt, Jr.
APS Vice President
Nuclear Projects
ANPP Project Director

EEVBJr/BSK:skc

Attachment

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cc: Victor Stello, Jr., Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

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FINAL REPORT, REVISION 1 | 1

REPORTABLE DEFICIENCY 50.55(e)

ARIZONA PUBLIC SERVICE COMPANY (APS)

PVNGS UNIT #1

I. Description of Deficiency

It is possible to inadvertently defeat the mechanical interlock device on the Battery Charger Cabinet, Tag Nos. 1-E-PKA-H15 and I-E-PKB-H15, and close both breakers at the same time. This condition is due to lack of rigidity of the interlock device. The deficiency was discovered during a routine review of jobsite conditions by Bechtel Management. | 1

The Specification (13-EM-051) for the safety-related battery chargers requires that the output circuit breakers in the battery charger be mechanically interlocked to prevent both breakers from being closed simultaneously. The breakers shall offer the possibility to be either both open or one closed and one open at any time.

II. Analysis of Safety Implications

This condition is considered reportable based on the following considerations:

- o If both circuit breakers are closed, the system is reduced to single mode failure in violation of IEEE and licensing requirements.
- o The supplier, Power Conversation Products, recognized the condition and has provided an improved design for the Units #2 and #3 battery chargers. This design increases the rigidity of the mechanical interlock device so that both breakers cannot be inadvertently closed.

III. Corrective Action

The necessary action to implement the supplier provided design fix will be incorporated in Unit #1 following established field change procedures prior to system start-up. Design Change Packages (DCP's) ICE-PK-012 and ICE-PK-013, has been issued for this purpose. | 1

The Power Conversation Products representative has indicated that this condition is isolated to the above identified battery chargers. | 1