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PUBLIC SERVICE COMPANY

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P.O. BOX 21666 - PHOENIX, ARIZONA 85036

August 23, 1982
ANPP-21665-GHD/BSK

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U. S. Nuclear Regulatory Commission
Region V
Creskide Oaks Office Park
1450 Maria Lane - Suite 210
Walnut Creek, California

Attention: Mr. T. W. Bishop, Chief
Reactor Construction Project Branch

Subject: Final Report - DER 81-51
A 50.55(e) Reportable Condition Relating to
Unit 1 Diesel Generator Control Cabinets Wiring
Not Separated Between Class 1E and Non-Class 1E
File: 82-019-026
D.4.33.2

- Reference:
- (A) Telephone Conversation between J. Eckhardt and G. Duckworth on December 30, 1981
 - (B) ANPP-20015, dated January 28, 1982 (Interim Report)
 - (C) ANPP-20485, dated March 19, 1982 (Extension)
 - (D) ANPP-20752, dated April 20, 1982 (Extension)
 - (E) ANPP-21037, dated May 24, 1982 (Extension)

Dear Sir:

Attached is our final written report of the Reportable Deficiency, under 10CFR50.55(e), referenced above.

Very truly yours,

E. E. Van Brunt, Jr.

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

EEVBJr/GHD:db

Enclosure

cc: See Attached Page 2

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U. S. Nuclear Regulatory Commission
Attention: Mr. T. W. Bishop, Chief

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cc: Richard DeYoung, Director
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U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

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FINAL REPORT - DER 81-51

DEFICIENCY EVALUATION 50.55(e)

ARIZONA PUBLIC SERVICE COMPANY (APS)

PVNGS UNITS 1, 2 & 3

I. DESCRIPTION OF DEFICIENCY

During a control panel termination review, it was found that the Unit 1 diesel generator control cabinet furnished by Cooper Energy Services had internal wiring not in compliance with IEEE-308/384 and SAR requirements. In several areas, separation between Class IE and non-class IE wiring was not maintained. The Bechtel specification 13-MM-018 did not specifically reference IEEE-384. Although it was understood and documented that this standard is applicable, Bechtel Engineering failed to update the purchase order specification with this specific requirement.

During subsequent drawing review to determine the extent of the discrepancy, it was noted that isolation between IE and non-IE circuits was not provided for some circuits.

II. ANALYSIS OF SAFETY IMPLICATIONS

This condition is considered reportable under the requirements of 10CFR50.55(e). Electrical isolation and separation is not adequate to assure that failure in non-IE circuits or components would not cause failure of IE circuits, causing failure of the essential on-site AC power supply.

III. CORRECTIVE ACTION

Design Change Packages for Units 1 and 2 have been issued to revise the control panels to provide isolation and separation per the referenced documents. The Unit 3 control panel will be corrected by the supplier prior to delivery to the jobsite. Compliance with IEEE-384 has been included as a specific requirement in Revision 10 to specification 13-MM-018.