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May 3, 1983

ANPP-23642-RQT/BSK

U. S. Nuclear Regulatory Commission
Region V
Creskide Oaks Office Park
1450 Maria Lane - Suite 210
Walnut Creek, California 94596-5368

Attention: Mr. D. M. Sternberg, Chief
Reactor Projects Branch 1

Subject: Interim Report, Revision 1 - DER 82-80
A 50.55(e) Potentially Reportable Deficiency Relating
to Conax Electrical Penetrations Low Insulation
Resistance Does Not Meet Qualification Tests
File: 83-019-026
D.4.33.2

Reference: (A) Telephone Conversation between T. Young and
G. Duckworth on December 17, 1982

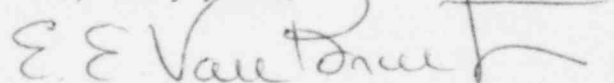
(B) ANPP-22736, dated January 17, 1983 (Interim Report)

Dear Sir:

The NRC was notified of a Potentially Reportable Deficiency in Reference (A) and an Interim Report was transmitted by Reference (B). At that time, it was estimated that a Final Report would be available by May 10, 1983.

Due to the extensive investigation and evaluation required, a revised Interim Report is attached. It is now expected that this information will be finalized by September 14, 1983, at which time a complete report will be submitted.

Very truly yours,



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

EEVBJr/RQT:skc

Attachment

cc: See Page 2

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PDR ADOCK 05000528
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Mr. D. M. Sternberg, Chief
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cc: Richard DeYoung, Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

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INTERIM REPORT, REVISION 1 - DER 82-80
POTENTIAL REPORTABLE DEFICIENCY
ARIZONA PUBLIC SERVICE COMPANY (APS)
PVNGS UNITS 1, 2 AND 3

I. Potential Problem

Specification No. 13-EM-035A requires that Electrical Penetration Assemblies (EPA) be qualified to IEEE Standard 317-1976. Section No. 5.2 of IEEE 317-1976 requires that the Instrumentation Circuits in EPA be designed to meet the requirements of the instrumentation system in which they are used.

Review of Qualification Reports for Terminal Blocks supplied by Conax Corporation has revealed substantially low insulation resistance values during the Design Basis Event Simulation Tests. Low level signals (up to a maximum 48 VDC and 4-20 ma range) cannot tolerate this low insulation resistance condition. This could result in erroneous control functions that may jeopardize reliable plant operation under an accident condition.

II. Approach To and Status Of Proposed Resolution

An investigative test was conducted by Conax Corporation on unaged terminal block samples simulating actual service and installation conditions with transmitters installed. Details of this test are given in Conax Report No. IPS-1011.2 (Bechtel Log No. E035A-566-1). Currently, similar testing is being performed on aged samples, with a report to follow upon test completion.

III. Projected Completion of Corrective Action and Submittal of the Final Report

Evaluation of this condition and submittal of the Final Report is forecast to be completed by September 14, 1983.