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MA/1

SUBJECT: Interim deficiency rept re Class 1E, 600 volt, power cable qualification testing due to difficulties in implementation.
 Final rept will be forwarded by 801115.

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 TITLE: Construction Deficiency Report (10CFR50.55E)

NOTES: Standardized Plant. 05000528
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ARIZONA



PUBLIC SERVICE COMPANY

P. O. BOX 21666 • PHOENIX, ARIZONA 85036

August 4, 1980
ANPP-16084-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: A 50.55(e) Reportable Condition Relating to
Class IE, 600V, Power Cable
File: 80-019-026

Reference: (1) ANPP-15090-JAR, dated March 24, 1980
(2) ANPP-15507-BSK/JAR, dated May 23, 1980

Dear Sir:

A preliminary written report and an interim report of a reportable deficiency under 10CFR50.55(e) was transmitted by References (1) and (2), respectively. Reference (2) estimated that information from qualification testing would be available by August 1, 1980. This information is summarized on the enclosed interim report.

The qualification testing is not complete due to difficulties encountered during its implementation. It is now expected that this information will be finalized by November 15, 1980 at which time a complete report will be submitted.

The Stop Work order, issued March 5, 1980, on installation of the Rockbestos Class IE cables has been partially lifted for out-of-containment installations as explained in the interim report. A decision will be made by September 1, 1980 on the disposition of the remainder of the quarantined cable and the cable previously pulled.

Very truly yours,

E. E. Van Brunt

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

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Enclosure

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U. S. Nuclear Regulatory Commission
Attention: Mr. G. S. Spencer, Chief
ANPP-16084-BSK/JAR
August 4, 1980
Page 2

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Washington, D. C. 20555

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REPORTABLE DEFICIENCY 50.55(e)
ARIZONA PUBLIC SERVICE COMPANY (APS)
PVNGS UNIT #1
INTERIM REPORT
August 1, 1980

I Problem and Previous Notification

The purpose of this report is to provide additional interim information required by 10CFR50.55(e) concerning apparent deficiencies relating to 600V copper power cable, delivered and partially installed in Unit #1 of the PVNGS.

A preliminary written report of this deficiency was transmitted by Reference (1). An interim report was forwarded by Reference (2). Reference (2) stated that qualification testing and evaluation would be complete by August 1, 1980.

II Approach to Resolution of the Problem

Please refer to Reference (1) which documents our approach to the resolution of this problem.

III Status of Proposed Resolution

Class IE multiconductor cable with insulation repairs manufactured after October 1, 1979 is qualified per IEEE-323-1974 and is released for installation out-of-containment. Steam line break/loss of coolant accident (SLB/LOCA) tests are being conducted. Sufficient information should be available by mid-October, 1980 to determine if this cable can be installed inside containment.

Class IE multiconductor cable with insulation repairs manufactured before October 1, 1979 and all single conductor Class IE cable with insulation repairs has been undergoing aging analysis to establish at least a 40-year qualified life for out-of-containment use per IEEE-323-1974. The scheduled completion date for this phase of testing is August 18, 1980. SLB/LOCA tests are scheduled to be completed in mid-September, 1980 for in-containment qualification.

IV Reasons for Delay of Final Report

The final report is delayed in order to await the completion and evaluation of qualification testing. The final report is delayed because of the time involved to develop Arrhenius plots for the insulation repair material as noted in Section III above.

V Projected Completion of Corrective Action and Submittal Date of the Final Report

Class IE multiconductor cable with insulation repairs has successfully completed out-of-containment qualification.

Qualification for out-of-containment installation of single conductor cable with insulation repairs is scheduled for completion by August 18, 1980. Disposition for all out-of-containment cable installation is expected by September 1, 1980.

SLB/LOCA testing for all cable should be completed by late October, 1980.

A final report will be submitted by November 15, 1980.

References: (1) Letter ANPP-15090-JAR, dated March 24, 1980
(2) Letter ANPP-15507-BSK/JAR, dated May 23, 1980

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