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PUBLIC SERVICE COMPANY

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P.O. BOX 21666 - PHOENIX, ARIZONA 85036

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REGION VISE

October 28, 1982  
ANPP-22136-GHD/BSK

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

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

Subject: Interim Report - DER 82-55  
A 50.55(e) Potentially Reportable Deficiency Relating  
to D. C. Motor Feeder Cables Sizing May Not Provide  
Sufficient Operating Voltage at Full Load.  
File: 82-019-026  
D.4.33.2

Reference: Telephone Conversation between J. Eckhardt and  
G. Duckworth on September 30, 1982

Dear Sir:

The NRC was notified of a potentially reportable deficiency in the  
referenced telephone conversation. At that time, it was estimated that  
a determination of reportability would be made within thirty (30) days.

Due to the extensive investigation and evaluation required, an Interim  
Report is attached. It is now expected that this information will be  
finalized by December 30, 1982, at which time a complete report will be  
submitted.

Very truly yours,

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

EEVBJr/GHD:db

Attachment

cc: See Attached Page 2

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U. S. Nuclear Regulatory Commission  
Attention: Mr. D. M. Sternberg, Chief  
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October 28, 1982  
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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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INTERIM REPORT - DER 82-55

POTENTIAL REPORTABLE DEFICIENCY

ARIZONA PUBLIC SERVICE COMPANY (APS)  
PVNC? UNITS 1, 2 & 3

I. POTENTIAL PROBLEM

A Bechtel Problem Alert requested that each project review the adequacy of the DC cable sizing. The Problem Alert requires that DC circuits be verified as adequate using the following criteria:

Using the minimum bus voltage available, calculate cable sizes considering full load current and the resulting voltage drop in cables using the actual lengths between load and bus. Verify that selected cables are capable of withstanding the available short circuit current.

The subsequent engineering review of DC motor feeder cables indicated that the cables were not adequately sized to provide the minimum rated motor operating voltage at the motor terminal.

II. APPROACH TO AND STATUS OF PROPOSED RESOLUTION

Bechtel Engineering is currently reviewing the design of each DC circuit and is issuing Design Change Packages (DCP's) to implement mandatory modifications. The procedural concern involved with this problem is being reviewed by the responsible individuals and specific instructions are being developed.

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 December 30, 1982.