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Arizona Public Service Company

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1983 JUN -9 PM 12:20

May 25, 1983

ANPP-23887-BSK/RQT REGION VISE

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

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

Subject: Interim Report - DER 83-26
A 50.55(e) Potentially Reportable Deficiency Relating to
BOP ESFAS Electronic Modules Failed Preoperational Testing Due
to Overheating
File: 83-019-026; D.4.33.2

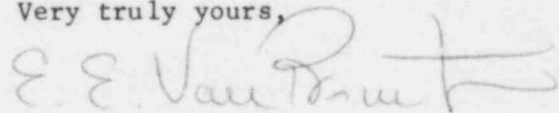
Reference: Telephone Conversation between P. Narbut and R. Tucker on
April 27, 1983

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 August 25, 1983, 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

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Attachment

cc: See Page 2

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U. S. Nuclear Regulatory Commission
Page 2

cc: Richard DeYoung, Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

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Records Center
Institute of Nuclear Power Operations
1100 Circle 75 Parkway - Suite 1500
Atlanta, Georgia 30339

INTERIM REPORT - DER 83-26
POTENTIAL REPORTABLE DEFICIENCY
ARIZONA PUBLIC SERVICE COMPANY (APS)
PVNGS UNIT 1

I. POTENTIAL PROBLEM

During Preoperational Test 92PE-1SA01, the following components did not meet performance requirements as specified in Specification 13-JM-104.

- 1) The Balance of Plant (BOP) Engineered Safety Features Actuation System (ESFAS) electronic modules failed, due to overheating. The temperature maximum limit for electronic chips per the manufacturer's (General Atomic Company) literature is 167°F. During testing, temperatures measured on the upper most module were observed to exceed 130°F, with 148°F temperatures observed in the module interior approximately one inch way from chip surfaces. The control room ambient temperature at this time was 78°F. Per Specification 13-JM-104, these electronic module cabinets should be able to operate in an ambient environment of 104°F. Excessive temperatures were not observed prior to the sealing of cable entrance holes located under the BOP ESFAS cabinets.
- 2) The Diesel Generator Start Signal electronic module failed in the nonactuated state and would not respond to Safety Injection Activation Signal, Auxiliary Feedwater Actuation Signals or Manual input signals.

This condition is documented in APS Startup Nonconformance Report S-309-1-J.

II. APPROACH TO AND STATUS OF PROPOSED RESOLUTION

Bechtel Engineering is currently corresponding with General Atomic Company to disposition this condition.

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 August 25, 1983.