

Arizona Public Service Company

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October 10, 1984
ANPP-30785-TDS/TRB

REGION V IRE

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

Attention: Mr. T. W. Bishop, Director
Division of Resident
Reactor Projects and Engineering Programs

Subject: Interim Report - DER 84-68
A 50.55(e) Potentially Reportable Deficiency Relating To The
Essential Chiller Temperature Switch.
File: 84-019-026; D.4.33.2

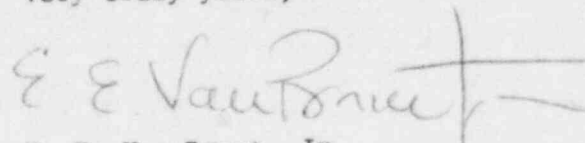
Reference: Telephone Conversation between L. Miller and K. Parrish on
September 10, 1984

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 October 30, 1984, at which time a complete report will be
submitted.

Very truly yours,



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

EEVB/TRB/nj
Attachment

cc: See Page Two

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Mr. T. W. Bishop
DER 84-68
Page Two

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

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INTERIM REPORT - DER 84-68
POTENTIAL REPORTABLE DEFICIENCY
ARIZONA PUBLIC SERVICE COMPANY (APS)
PVNGS UNIT 1

I. Potential Problem

During integrated safeguards pretesting, it was discovered that Train A essential chiller would not resequence "back on line" after an SIAS followed by a LOP followed by a DG breaker closure. Further investigation showed that the reason for the restart lockout was due to temperature switch 1J-ECA-TSH-505 tripping after the LOP. This switch monitors the compressor bearing for high oil temperature. It was found that this switch would be in the tripped state after a loss of control power (or LOP) if bearing temperature was above the reset temperature ($168^{\circ} \pm 22^{\circ}\text{F}$). If control power was never lost (or no LOP sequence), the switch would never trip unless bearing temperature rose above the trip setpoint of $221^{\circ}\text{F} \pm 11^{\circ}\text{F}$. In a test run on 8/27/83, the chiller was run for 25 minutes then shut down. The bearing temperature was found to be approximately 169°F . The chiller could not be restarted due to temperature switch trip after momentary shutdown of control power.

II. Approach To and Status Of Proposed Resolution

Bechtel Engineering is currently studying this problem to determine reportability and technical justification for corrective action.

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

The complete evaluation and final report are forecast to be completed by October 30, 1984.