

Arizona Public Service Company

March 23, 1984
ANPP-29141-BSK/TRB

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

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

Subject: Interim Report - DER 84-10
A 50.55(e) Potentially Reportable Deficiency Relating to
Abnormal Number of Single Element RTD's Open Circuited
File: 84-019-026; D.4.33.2

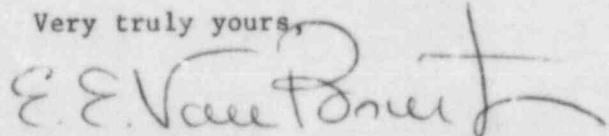
Reference: Telephone Conversation between R. Dodds and T. Bradish on
February 29, 1984

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 June 1, 1984, at which time a complete report will be
submitted.

Very truly yours,



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

EEVB/TRB:ru

Attachment

cc: See Page Two

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PDR ADOCK 05000528
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Mr. T. W. Bishop
DER 84-10
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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
POTENTIAL REPORTABLE DEFICIENCY
ARIZONA PUBLIC SERVICE COMPANY (APS)
PVNGS UNIT 1, 2, & 3

I. Potential Problem

RdF Corp. has identified a potential problem with the Single Element Resistance Temperature Detectors (RTDs) (P/N 21233) that have been honed to a minimum diameter of 0.247". The Dual Element RTDs (P/N/21252) are not affected.

During final testing of several pieces in late August, 1983, an abnormal number of units open-circuited, thereby, failing inspection. After an extensive analysis, RdF determined that the failures were the result of torsional twisting of the element and sheath during the honing operation, leading to broken internal wires. RdF has revised their manufacturing procedures so that a majority of the honing takes place prior to assembly, with only a small length of the element being honed after assembly, thereby eliminating the problem in future pieces. ANPP Units 1, 2, & 3 have been identified as having RTDs with this potential problem and are identified by the following Unit Serial Numbers:

<u>Unit 1</u>	<u>Unit 2</u>	<u>Unit 3</u>
S/N 158	S/N 174	S/N 246 thru 255
S/N 159	S/N 178 thru 182	
S/N 224	S/N 185 thru 192	
S/N 225	S/N 227	
S/N 226	S/N 232 thru 235	
S/N 228	S/N 242 thru 245	
S/N 229		
S/N 231		
S/N 236		
S/N 238 thru 241		

II. Approach To and Status of Proposed Resolution

C-E and RdF Corporation are currently implementing an identification, inspection and replacement program for the defective RTDs.

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 June 1, 1984.