Arizona Public Service Company

June 12, 1984
ANPP-29732-TDS/TRB

U. S. Nuclear Regulatory Commission
Region V
Creekside 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 84-35
A 50.55(e) Potentially Reportable Deficiency Relating To
Setpoint Potentiometers In The PPS Drift Outside Of Tolerance
File: 84-019-026; D.4.33.2

Reference: Telephone Conversation between P. Narbut and T. Bradish on
May 17, 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 August 31, 1984, at which time a complete report will be submitted.

Very truly yours,

E E Van Brunt

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

EEVB/TRB:db
Attachment

cc: See Page Two



IE-27

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 34-35
POTENTIAL REPORTABLE DEFICIENCY
ARIZONA PUBLIC SERVICE COMPANY (APS)
PVNGS UNIT 1, 2

I. Potential Problem

After experiencing excessive drift of a number of setpoint potentiometers in the St. Lucie II Auxiliary Feed Actuation System, Combustion Engineering (C-E) began a program in the Summer of 1983 to perform stability testing on the ANPP Plant Protection Systems (PPS), which use identical potentiometers - the Bourns Infinitron series. C-E has identified a total of twelve (12) potentiometers in Unit 1 that drift beyond allowable tolerances and require replacement.

II. Approach To and Status of Proposed Resolution

The Bourns part number (3501S-1-102) for the replacement potentiometer is the same as the original Infinitron part number, however, the Infinitron series is no longer available from Bourns or C-E's normal distributors. Bourns has developed a "Hybritron" series potentiometer as a replacement which uses a different resistive element and is manufactured differently than the Infinitron device. C-E is performing functional testing on the new Hybritron potentiometer at this time, which is expected to be completed in June, 1984.

Stability testing is in progress on the Unit 2 PPS. There are approximately 200 Bourns potentiometers in each PPS cabinet. The Unit 3 PPS, shipped from the manufacturer earlier this year, has had the potentiometer replacement program completed.

This modification will be performed by personnel from Electro-Mechanics, Inc. DCP 1SM-SB-039 has been issued to replace the potentiometers identified as defective.

Bechtel engineering is currently corresponding with C-E to determine the safety impact.

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 31, 1984.