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July 24, 1984

ANPP-30027-TDS/REGION V, NS

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

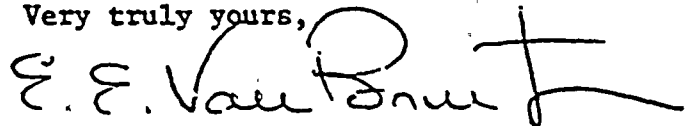
Subject: Final Report - DER 84-08
A 50.55(e) Reportable Condition Relating To ITT/Barton Model
763 Transmitters Do Not Meet Specifications.
File: 84-019-026; D.4.33.2

Reference: A) Telephone Conversation between R. Dodds and T. Bradish on
February 29, 1984
B) ANPP-29083, dated March 16, 1984 (Interim Report)
C) ANPP-29972, dated July 16, 1984 (Time Extension)

Dear Sir:

Attached is our final written report of the Reportable Deficiency under
10CFR50.55(e), referenced above.

Very truly yours,



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

EEVB/TRB:db
Attachment

cc: See Page Two

~~8408490012~~

Mr. T. W. Bishop
DER 84-08
Page Two

cc: Richard DeYoung, Director
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U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

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FINAL REPORT - DER 84-08
DEFICIENCY EVALUATION 50.55(e)
ARIZONA PUBLIC SERVICE COMPANY (APS)
PVNGS UNITS 1, 2, 3

I. Description of Deficiency

Combustion Engineering (C-E), has notified the Arizona Nuclear Power Project (ANPP) that the elevated/suppressed range ITT Barton Model 763 pressure transmitters supplied by C-E have output errors of -2 to -3% of their calibrated span. The applicable project tag numbers are:

1,2&3JRCEPT100X	1,2&3RCCPT101C	1,2&3S1APT333
1,2&3JRCEPT100Y	1,2&3RDCPT101D	1,2&3S1APT343
1,2&3JRCAPT101A	1,2&3S1BPT313	2&3RCAPT103
1,2&3JRCBPT101B	1,2&3S1BPT323	2&3RCBPT104

Per Combustion Engineering Specification 14273-ICE-0005 the output drift of these transmitters is not to exceed +1.0% of the calibrated span.

II. Analysis of Safety Implications

The above listed transmitters have the following plant applications:

1. Transmitters 1, 2 and 3 JRCEPT100X and 100Y provide pressurizer pressure inputs to C-E control grade systems. These systems are not safety related, and therefore a 3% error is not considered safety significant.
2. Transmitters PT313, 323, 333, and 343 are utilized for safety injection tank pressure indication only, and are not required for safe shutdown of the plant.
3. Transmitters PT101A, -101B, -101C and -101D provide inputs to the Plant Protection System (PPS). For these transmitters an additional -3.0% error could result in a non-conservative HI pressurizer pressure/plant protective system setpoint. This error combined with other anticipated errors in the PPS may prevent a plant trip on high pressurizer pressure, and therefore result in a potential safety significant condition.
4. Transmitters 2 and 3 JRCAPT103 and 2 and 3 JRCBPT104 have previously been designated as unacceptable in DER 82-46. The transmitters are being replaced with Rosemount Model 1153 Series D transmitters. As a result, deficiencies with these instruments are no longer considered applicable to PVNGS.



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Based on the above, this condition is evaluated as reportable under the requirements of 50.55(e), since if the condition were to remain uncorrected for item 3 it would represent a significant safety condition.

ITT Barton, the manufacturer of these transmitters, has filed a 10CFR Part 21 report with the NRC as notification of this deficiency.

III. Corrective Action

The transmitters in items 1 and 2 will be used as is.

C-E has evaluated the condition described in item 3 and has revised the PPS setpoints to account for the -3% instrument error. The revised setpoints are reflected in the C-E Final Setpoint Report, Bechtel Log Number N001-1.01-413. The change to the PVNGS setpoints precludes the potential safety hazard as the error is no longer considered outside the analyzed operating range. This analytical resolution enables the continued utilization of the existing transmitters without any hardware alteration. In order to meet C-E's original specification requirements of maximum +1.0% drift however, Barton is currently working on a physical modification to the transmitters. When this is completed the transmitters will either be replaced or refurbished and the PPS setpoints returned to their original values.



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