

Arizona Public Service Company

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September 26, 1984
ANPP-30664-TDS/TRB

REGION V IRE

U. S. Nuclear Regulatory Commission
Region V
Creskide 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

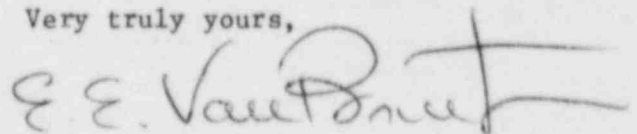
Subject: Final Report - DER 84-52
A 50.55(e) Condition Relating to The Atmospheric Dump Valve.
File: 84-019-026; D.4.33.2

Reference: A) Telephone Conversation between L. Miller and T. Bradish on
August 10, 1984
B) ANPP-30473, dated September 10, 1984 (Interim Report)

Dear Sir:

Attached is our final written report of the deficiency referenced above.

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 84-52
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cc: Richard DeYoung, Director
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Washington, D. C. 20555

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FINAL REPORT - DER 84-52
DEFICIENCY EVALUATION 50.55(e)
ARIZONA PUBLIC SERVICE COMPANY (APS)
PVNGS UNITS 1, 2, 3

I. Description of Deficiency

The atmospheric dump valve and its associated resistor (diffuser) were manufactured by Control Components, Inc. (CCI) and purchased together. CCI was provided with general design criteria via specification 13-JM-601A to supply the subject components. Bechtel Engineering designed and provided the interface (interconnecting) piping between the valve which is installed at the elev. 143' of the Main Steam Support Structure and the diffuser which is installed above the valve on the roof. Bechtel Engineering used the base flange of the resistor as an anchor to support part of the interconnecting piping assembly. Subsequently, CCI submitted their seismic report (Bechtel Document Log No. J601A-158-2) to Bechtel for approval. During the review of this report, Bechtel determined that the actual piping loads on the resistor base flange had not been considered and that when these loads were considered, the resistor base flange would become overstressed during a seismic event.

CCI performed another seismic analysis using actual piping loads supplied by Bechtel and determined that, in order to meet the loading requirements, the thickness of the resistor base flange must be increased from one inch to approximately two inches.

Evaluation

The root cause of this condition is that the piping load information was not transmitted to the supplier; however, Bechtel Engineering had not released the design of this system until confirming that the total installation would meet project seismic requirements. The final installation of the atmospheric dump valve system has been contingent upon Bechtel's acceptance of CCI's seismic report and the review of the seismic report disclosed the need to increase the thickness of the resistor base flange.

II. Analysis of Safety Implications

This condition, if left uncorrected, could possibly constitute a safety condition during a seismic event since the piping assembly could become disengaged at the resistor base flange and fall upon safety-related equipment. A detailed analysis of safety implications was not pursued since the condition is being corrected.

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III. Corrective Action

DCPs 1-SJ-SG-117, 2-SJ-SG-117, and 3-CJ-SG-117 were initiated to increase the thickness of the resistor base flange to two inches for the installations in Units 1, 2, and 3 respectively.

CCI's revised seismic report is logged under Bechtel Document Log No. J601A-158-3.

To preclude recurrence, a training session was held to make all engineering disciplines aware of the need to transmit the load information to other disciplines (or suppliers) for incorporation into other specifications, Reference IOM-E-11451 (MOC 332730), dated 8/16/84.