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VAN BRUNT,E.E. Arizona Public Service Co.
RECIP.NAME RECIPIENT AFFILIATION
SPENCER,G.S. Region 5, San Francisco, Reactor Construction & Engineer

SUBJECT: Final interim deficiency rept re potential failure of temp detection controllers used on CTI-Nuclear air handling & filtration equipment.McGraw Edison issued recall notice to return controllers for repair or replacement. mr

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ARIZONA PUBLIC SERVICE COMPANY
P. O. BOX 21666 · PHOENIX, ARIZONA 85036

October 23, 1980
ANPP-16612-BSK/JAR

U. S. Nuclear Regulatory Commission
Region V
Walnut Creek Plaza - Suite 202
1990 North California Boulevard
Walnut Creek, California 94596

Attention: Mr. G. S. Spencer, Chief
Reactor Construction and
Engineering Support Branch

Subject: A 50.55(e) Reportable Condition Relating to Potential Failure of Temperature Detection Controllers Used on CTI-Nuclear Air Handling and Filtration Equipment
Final Report
File: 80-019-026

Reference: (1) Telephone Conversation between J. Eckhardt and B. S. Kaplan on September 16, 1980 (DER 80-28)

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 Projects
ANPP Project Director

EEVBJr/BSK:skc

Attachment

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S 1/1

S 8010290324

cc: Victor Stello, Jr., Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

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FINAL REPORT

REPORTABLE DEFICIENCY 50.55(e)

ARIZONA PUBLIC SERVICE COMPANY (APS)

PVNGS UNITS #1 AND #2

I. Description of Deficiency

CTI-Nuclear, a Division of McDowell-Wellman Company was advised by their supplier, Edison Electronics Division of McGraw Edison, that an electronic component similar to that supplied to CTI-Nuclear has failed in service. The component is an integral part of an electronic controller for detecting high temperatures in the airstream of various filtration systems. These controllers are used on CTI-Nuclear Part Numbers D-31555, D-31556, D-31557 and D-32063 which have been delivered to the PVNGS jobsite for safety-related and non-safety-related applications.

McGraw Edison attributes this only known failure to the use of acid flux in sealing some of the controls during manufacture. The acid flux could cause corrosion in the controller and result in failure.

II. Analysis of Safety Implications

If not detected and corrected, the controller could give erroneous indications such as, (1) failing to open and not closing at an alarm point, (2) failing closed and giving a false alarm, or (3) failing at some intermediate step and functioning inaccurately.

This condition is considered to be a reportable deficiency since if not detected and corrected, the failure mode could possibly represent a safety significant condition.

III. Corrective Action

McGraw Edison issued a recall notice to their customers to return controllers for repair or replacement.

Bechtel issued Design Change Packages (DCP's ICM-HJ-003, 2CM-HJ-003, and 1CM-HF-002) on July 3, 1980 to remove suspect controllers from the jobsite and return to the supplier. The DCP's also provided for the installation of repaired or replaced controllers.

CTI-Nuclear submitted a 10CFR Part 21 notification to the NRC on April 30, 1980 advising them of the potential problem.