



PUBLIC SERVICE COMPANY

P. O. BOX 21666 . PHOENIX, ARIZONA 85036

July 10, 1981 ANPP-18370-BSK/JAR

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

Attention: Mr. B. H. Faulkenberry, Chief

Reactor Construction and Engineering Support Branch

Subject: Final Report

A 50.55(e) Reportable Condition Relating to Electrically Operated GE Circuit Breakers that Contain a Bearing Which May Deform After the Breaker is Left in the Charge Posi-

tion for Several Hours File: 81-019-026 D.4.33.2

Reference: Telephone Conversation between J. Eckhardt and B. S. Kaplan

on June 12, 1981 (DER81-16)

Dear Sir:

Attached, is our final written report of the reportable deficiency, under 19CFR50.55(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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U. S. Nuclear Regulatory Commission Attention: Mr. B. H. Faulkenberry, Chief ANPP-18370-BSK/JAR July 10, 1981 Page 2

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

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M. A. Kiffer General Electric Company 5320 North 16th Street Phoenix, Arizona 85016

FINAL REPORT

REPORTABLE DEFICIENCY 50.55(e)

ARIZONA PUBLIC SERVICE COMPANY (APS)

PVNGS UNITS NO. 1, 2 AND 3

I. Description of Deficiency

A condition was identified to this project by General Electric Service Advice 175-CPD No. 9.6, whereby, the electrically operated AKR-30 and AKR-50 Breakers, Serial Nos. N268950000 1-6, manufactured by GE before December 19, 1980, contain a bearing which may become deformed after the breaker is left in the charge position for several hours. The breakers are used in the following equipment:

Туре	Service	Bechtel Tag No. of Equipment	Total Quantity
AKR-30	actor Trip Switchgear	J-SBA-CO3	3
AKR-30	Supply Breaker	J-SBB-CO3	3
AKR-50	Battery A Supply Breaker	E-PKA-M41	6 (includes 3 spares)
AKR-50	Battery B Supply Breaker	E-PKB-M42	3
AKR-50	Battery C Supply Breaker	E-PKC-M43	3
AKR-50	Battery D Supply Breaker	E-PKD-M44	3

II. Analysis of Safety Implications

This condition has been reviewed as being reportable since, if left undetected and/or uncorrected, inadvertent failure of one or more of these breakers would render the identified safety-related equipment inoperative.

III. Corrective Action

GE has committed to provide replacement bearing assemblies for the identified equipment and offer any support necessary to complete the corrective action.

GE has not provided Arizona Public Service Company with a definitive schedule for completion of corrective action.

bcc: W. G. Bingham J. Aguilar M. Torikian M. J. Jewell K. Kreutziger

B/GE-E-34593 MOC 151684 June 4, 1981

General Electric Company 5320 North 16th Strot Phoenix, Arizone 85016

Attention: Mr. M. A. Kiffer

Subject:

Arizona Muclear Power Project

Pechtel Job 10407

GE Low Woltage Power Circuit

Breakers, Type AKP File: EF-021, NF-001

Peference: GE Service Advice 175-CPD No. 9.6, May 5, 1981

Dear Mr. Riffer:

In response to the referenced Service Advice, we are using AKR-30 and AKR-50 electrically-operated low voltage power circuit breakers as indicated below:

Type	Service	Bechtel Teg No. of Equipment	Total Quantity
AFR 30	RTSG Supply Breaker	J-SBA-C03 J-SBB-C03	3
AKR 50	Eattery A Supply F caker	E-PKA-M41	(includes 3 spares)
AKR 50 AKR 50 AKR 50	Battery B Supply Breaker Battery C Supply Breaker Battery D Supply Breaker	E-PKB-M42 E-PKC-M43 E-PKD-M44	3 3

Please advise if this problem was reported to NRC in compliance with 10CFR50.55(e)/Part 21. Also, please inform your schedule of retrofitting the affected breakers used in this project.

Your response is requested by June 15, 1981. This completes Bechtel action on the referenced letter.

Very truly yours,

BECHTEL POWER COPPORATION

CTIGHT CIGNED BY

W. G. Bingham
Project Engineering Manager
Los Angeles Power Division

WGE: SB:men

cc: E. E. Van Brunt, Jr.
L. Fickle - GE, El Vonte Office

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GENERAL ELECTRIC USMO

SI-002-419 3
INSTALLATION AND CO
SERVICE ENGINEERING 4

 ELECTRICAL AND ELECTRONIC

wcr-

May 5, 1981

Arizona Nuclear Power Project c/o Arizona Public Service Co. P.O. Box 21666 Phoenix, Arizona 85036

Attn: John T. Barrow, Jr., P.E.

Responsible Action By Eng.

(Date)

5/13/8/

Review & Info

Comment Process

Subject: Service Advice 175-CPD#9.6

AKR-30 and AKR-50 Electrically Operated Low Voltage Power Circuit Breakers

Serial No.s N268950000 1-6

Our records indicate that you have Low Voltage Switchgear containing General Electric electrically operated Low Voltage Power Circuit Breakers in Nuclear Power Plant applications. It has come to our attention that electrically operated AKR-30 and AKR-50 Breakers manufactured before December 19, 1980 contain a bearing which may become deformed after the breaker is left in the charge position for several hours. This deformation can result in failure of the circuit breaker to close upon command.

Although we are unaware of any such failures of electrically operated AKR-30 and AKR-50 Circuit Breakers in Nuclear Power Plant applications, we intend to modify <u>all</u> affected breakers by substituting the improved bearing at no cost to you.

We are accelerating Manufacturing schedules to provide an adequate supply of replacement bearing assemblies. We will contact you in the very near future to schedule the corrective action. Whatever support you require will be provided by us at no cost to you.

M.A. Kiffer

Field Service Engineer

I&SE-Industrial & Nuclear Services

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