

10/29/2003

U.S. Nuclear Regulatory Commission Operations Center Event Report

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Power Reactor

Event # 40283

Site: CALLAWAY				Notification Date / Time: 10/29/2003 10:05 (EST)		
Unit: 1		Region: 4		State : MO		Event Date / Time: 10/29/2003 (CST)
Reactor Type: [1] W-4-LP				Last Modification: 10/29/2003		
Containment Type: DRY AMB						
NRC Notified by: DAVID M. EPPERSON				Notifications: TROY PRUETT		R4
HQ Ops Officer: STEVE SANDIN				JACK FOSTER		NRR
Emergency Class: NON EMERGENCY						
10 CFR Section:						
21.21 UNSPECIFIED PARAGRAPH						
Unit	Scram Code	RX Crit	Init Power	Initial RX Mode	Curr Power	Current RX Mode
1	N	Yes	100	Power Operation	100	Power Operation

10 CFR 21 NOTIFICATION FOR GE MAGNE-BLAST BREAKER TUBE AND PISTON ASSEMBLIES

"This notice is being sent within the two day period to inform you of a safety concern related to tube and piston assemblies for GE Magne-Blast breakers (model AM-4.16-350-2h medium voltage circuit breaker).

"The concern is specific to tube and piston assemblies supplied under part number Q0213X0343R094. All five assemblies supplied to AmerenUE contain a dimensional design error which would cause the assembly to interfere and bind with the circuit breaker movable contact assembly, which would render the breaker inoperative."

"All basic components with the defect at Callaway were returned to GENE . . ."

IE#19



CALLAWAY NUCLEAR PLANT
P. O. Box 620
Fulton, MO 65251

FAX No. (573) 676- 4202

Verification No. (573) 676- 4277

Message Transmitted By:

Susan

Date: 10-29-03

Time: 9:00 ☒ A.M. ☐ P.M.

DO NOT USE RED INK OR PENCIL

To:

NRC

Company:

Receiving FAX

Verification No.

301 816 5151

301 816 5100

TOTAL PAGES: 4

From:

Extension:

Susan

573- 676-4277

☐ Discard

☐ Mail to Receiving Party
(Please provide address)

☐ Return to Sender

Instructions to Receiving Operator:

CA0021
01/21/98
N/A

AmerenUE
Callaway Plant

Ronald D. Affolter
Vice President - Nuclear

PO Box 620
Fulton, MO 65251
573.676.8240
573.676.4056 fax

October 28, 2003

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Mail Stop P1-137
Washington, DC 20555-0001

ULNRC-04912



Ladies and Gentlemen:

**DOCKET NUMBER 50-483
CALLAWAY PLANT UNIT 1
UNION ELECTRIC CO.
FACILITY OPERATING LICENSE NPF-30
10 CFR 21 notification for GE Magne-Blast breaker tube and piston assemblies**

This notice is being sent within the two day period to inform you of a safety concern related to tube and piston assemblies for GE Magne-Blast breakers (model AM-4.16-350-2h medium voltage circuit breaker).

The concern is specific to tube and piston assemblies supplied under part number Q0213X0343R094. All five assemblies supplied to AmerenUE contain a dimensional design error which would cause the assembly to interfere and bind with the circuit breaker movable contact assembly, which would render the breaker inoperative.

If you have any questions, please contact David M. Epperson at 573/676-4664 or via e-mail at dmepperson@cal.ameren.com.

Very truly yours,

A handwritten signature in black ink, appearing to read "R. Affolter".

Ronald D. Affolter
Vice President, Nuclear

RDA/JER/slk

Enclosure

ULNRC04912

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cc: Mr. Bruce S. Mallet
Regional Administrator
U.S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-4005

Senior Resident Inspector
Callaway Resident Office
U.S. Nuclear Regulatory Commission
8201 NRC Road
Steedman, MO 65077

Mr. Jack N. Donohew (2 copies)
Licensing Project Manager, Callaway Plant
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Mail Stop 7E1
Washington, DC 20555-2738

Manager, Electric Department
Missouri Public Service Commission
PO Box 360
Jefferson City, MO 65102

Records Center
Institute of Nuclear Power Operations
700 Galleria Parkway
Atlanta, GA 30339

Name and address of individuals informing the NRC:	David M. Epperson (573) 676-4664 AmerenUE Callaway Plant P.O. Box 620 Fulton, MO 65251
Basic component which contains a defect:	G. E. Nuclear Magne-Blast breaker model AM-4.16-350-2H medium voltage circuit breaker tube and piston assembly, part number Q0213X0343R094
Firm supplying basic component which contains a defect:	General Electric Nuclear Energy
Nature of defect:	Dimensional Design error which would cause the assembly to interfere and bind with the circuit breaker movable contact assembly, which would render the breaker inoperative. A manufacturing defect was also present in one of the five assemblies supplied to Callaway. An incomplete crimp on one of the assemblies could have rendered the breaker inoperable. If the defective assemblies were installed, this could have created the potential for multiple common-cause circuit breaker failures.
Date on which information of the defect was obtained:	09-04-2003
Location of basic components containing defect:	All five assemblies supplied to Callaway under Ameren P.O. 096441 were returned to GE Nuclear for evaluation. GENE states that the only utility to have ordered the assembly after the design change (which caused the defect) was the Callaway Plant/AmerenUE. However, Callaway is not in the position to determine if similar assemblies with this defect have been supplied commercially, through third party dedication entities, or through GE overhaul facilities.
Corrective Action which has been taken:	All basic components with the defect at Callaway were returned to GENE under RMA #U03011.
Advice related to the defect:	It is not believed that any installed breakers at other nuclear power plants are affected by this issue because standard maintenance procedures based on GE breaker instructions GEK-7320 would have detected that the primary contact gap would not meet acceptance criteria. Additionally, breaker cycling after maintenance would have resulted in binding of the breaker during these pre installation test.