**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

**Containment Type: DRY AMB** 

**Notifications: TROY PRUETT** 

Last Modification: 10/29/2003

JACK FOSTER

R4

NRC Notified by: DAVID M. EPPERSON **HQ Ops Officer: STEVE SANDIN** 

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

TE19

<sup>&</sup>quot;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).

<sup>&</sup>quot;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."

<sup>&</sup>quot;All basic components with the defect at Callaway were returned to GENE . . . ."



CALLAWAY NU P. O. Box 620 Fulton, MO 6525		Message Transmitted By:  Date: 10-29-03						
	(573) 676- 4202 (573) 676- 4277		Date: 10-29-63 Time: 10-29-63 P.M.					
<u>po not use red ink or pencil</u> · total pages:								
To: Company: Receiving FAX Verification No.	NRC 301 816 5151 301 816 5100	From:	Susar Sion: 573-676-4277					
Discard .	Mail to Receir (Please provid		Return to Sender					
Instructions to 1	Receiving Operator:		•					

C:A0021 01/21/98 N/A AmerenUE Callaway Plant

Ronald D. Affolter Vice President - Nuclear

October 28, 2003

PO Box 620 Fulton, MO 65251 573.676.8240 573.676.4056 fax

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 <a href="mailto:dmepperson@cal.ameren.com">dmepperson@cal.ameren.com</a>.

Very truly yours,

Ronald D. Affolter Vice President, Nuclear

RDA/JER/slk

Enclosure

a subsidiary of Ameren Corporation

ULNRC04912 Page 2

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.