



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TEXAS 76012

bcc to DAC:ADM:
CENTRAL FILES
PDR:HQ
LPDR
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NSIC

August 27, 1980

Docket Nos. 50-313
50-368

Arkansas Power and Light Company
ATTN: Mr. William Cavanaugh III
Vice President of Generation
and Construction

P. O. Box 551
Little Rock, Arkansas 72203

Gentlemen:

This IE Information Notice is provided as a notification of a matter of possible safety significance. It is expected that recipients will review the information for possible applicability to their facilities, and where applicable, consider the recommended action. If you have questions regarding this matter, please contact the director of this office.

Sincerely,

Karl V. Seyfrit
Director

Enclosures:

1. IE Information Notice
No. 80-31
2. List of recently issued IE
Information Notices

cc: James P. O'Hanlon, Plant Manager
Arkansas Nuclear One
P. O. Box 608
Russellville, Arkansas 72801

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT
WASHINGTON, D.C. 20555

IE Information Notice 80-31

Date: August 27, 1980

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MALOPERATION OF GOULD-BROWN BOVERI 480 VOLT-TYPE K-600S AND K-DON 600S
CIRCUIT BREAKERS

Description of Circumstances:

The Cincinnati Gas & Electric Company reported problems with the Gould-Brown Boveri Type K-600S and K-DON 600S circuit breakers used in 480 volt a.c. circuits at the William H. Zimmer nuclear station. The problem involved inadvertent circuit breaker closure during operation of the breaker charging springs when the breaker was racked out to the test position.

The problem resulted from the use of undersized bushings in the circuit breaker secondary close latches. The undersized bushings caused the secondary close latch to hang-up on the shunt trip device resulting in an inadvertent circuit breaker closure when the spring charging motor was energized.

The vendor has stated that the problem does not exist during normal operations with the circuit breaker in the connected position.

Recommended Action for Licensees and Holders of Construction Permits:

All licensees of operating nuclear power reactors and holders of construction permits should be aware of the potential problems described above. The vendor has stated that a small number of circuit breakers were assembled with undersized secondary latch bushings between 1969 and 1977. It is recommended that the following actions be taken:

- (1) Determine if the subject circuit breakers are installed in any safety-related application at your facility. The affected circuit breakers are manufactured by Gould-Brown Boveri and are types K-600S and K-DON 600S, 480-volt a.c. electrically operated, drawout type with static trip device.
- (2) If it is determined that your facility has the circuit breakers described in Item (1) above, perform the K-600S, K-DON 600S Field Test Procedure attached to this information notice (Gould-Brown Boveri I.B.-9.1.7-6 Issue F, Addendum 2, dated March 4, 1980).
- (3) If maloperation of the circuit breaker field test procedure described in Item (2) above occurs, install a 0.050 inch shim to the secondary close latch (see attached field test procedure for action described in the attached field test procedure for 0.050 inch shim to the secondary close latch (breaker)).

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