



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  
~~TIC~~  
NSIC

August 27, 1980

Docket No. 50-298

Nebraska Public Power District  
ATTN: J. M. Pilant, Director  
Licensing & Quality Assurance  
Post Office Box 499  
Columbus, Nebraska 68601

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 facility, 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. 30-31
2. List of recently issued IE  
Information Notices

cc: L. C. Lessor, Superintendent  
Cooper Nuclear Station  
Post Office Box 98  
Brownville, Nebraska 68321

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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 the attached field test procedure (0.050 inch shim to the secondary close latch of the breaker).

DUPLICATE DOCUMENT

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