

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

July 26, 1985

IE INFORMATION NOTICE NO. 85-64: BBC BROWN BOVERI LOW-VOLTAGE K-LINE CIRCUIT BREAKERS, WITH DEFICIENT OVERCURRENT TRIP DEVICES MODELS OD-4 AND 5

Addressees:

All nuclear power reactor facilities holding an operating license (OL) or a construction permit (CP).

Purpose:

This information notice is to alert licensees that BBC Brown Boveri low-voltage K-line circuit breakers with overcurrent trip device models OD-4 and OD-5 may have been manufactured with an incorrect short time delay band lever (link). It is expected that licensees will review the information for applicability to their facilities and consider actions, if appropriate, to preclude the use of the defective overcurrent trip devices. However, suggestions contained in this information notice do not constitute NRC requirements; therefore, no specific action or written response is required.

Description of Circumstances:

On May 13, 1985, BBC Brown Boveri Inc. (BBC) made a 10 CFR Part 21 report to the NRC concerning a deficiency in the Models OD-4 and OD-5 overcurrent trip devices installed on K-line circuit breakers. The affected breakers were manufactured by BBC from October 1983 to March 1985 and may have incorrect short time delay band levers (links) installed in electromechanical overcurrent trip device models OD-4 and OD-5. The incorrect link could limit the travel of the short time armature and cause the short time element to be inoperative in the maximum (MAX) band.


Discussion:

The May 13, 1985, 10 CFR Part 21 report from BBC recommended that all K-line circuit breakers with the OD-4 and OD-5 overcurrent trip devices and any spare OD-4 and OD-5 overcurrent trip devices that were manufactured between October 1983 and March 1985, be inspected for an incorrect short time delay

band link. Licensees known by BBC to have purchased K-line breakers or spare OD-4 or OD-5 overcurrent trip devices were notified of the possible defect and instructions provided for their inspection. Enclosed is a list of utilities and related facilities that were notified by BBC. However, BBC advised the NRC that there is a possibility that other utilities could be using K-line circuit breakers with the suspect OD-4 and OD-5 overcurrent trip devices. Therefore, all licensees are being notified of this possible defect.

For facilities not on the list and using BBC K-line circuit breakers with OD-4 and OD-5 overcurrent trip devices that were purchased between October 1983 and March 1985, it is suggested that BBC Brown Boveri Switchgear Products Group be contacted for information on performing the inspections and corrective action.

No specific action or written response is required by this notice. If you have any questions regarding this notice, please contact the Regional Administrator of the appropriate NRC regional office or this office.



Edward L. Jordan, Director  
Division of Emergency Preparedness  
and Engineering Response  
Office of Inspection and Enforcement

Technical Contact: L. B. Parker, IE  
(301) 492-7190

Enclosures:

1. Utilities/Facilities Notified by BBC Brown Boveri
2. List of Recently Issued IE Information Notices

Utilities/Facilities Notified by BBC Brown Boveri

1. Public Service of New Hampshire/Seabrook
2. Philadelphia Electric/Peach Bottom
3. Niagara Mohawk/Nine Mile Point 2
4. Duquesne Light/Beaver Valley
5. Cleveland Electric Illuminating/Perry
6. Gulf States Utilities/River Bend
7. Carolina Power and Light/Brunswick
8. Virginia Electric Power/Surry
9. Florida Power and Light/St. Lucie
10. Arkansas Power & Light/Arkansas Nuclear One
11. Georgia Power/Vogtle
12. Commonwealth Edison/no plant identified
13. Long Island Lighting/no plant identified
14. Kansas City Power & Light/no plant identified
15. Florida Power Corporation/no plant identified

LIST OF RECENTLY ISSUED  
IE INFORMATION NOTICES

Information Notice No.	Subject	Date of Issue	Issued to
85-63	Potential for Common-Mode Failure of Standby Gas Treatment System on Loss of Off-Site Power	7/25/85	All power reactor facilities holding an OL or CP
85-62	Backup Telephone Numbers to the NRC Operations Center	7/23/85	All power reactor facilities holding an OL and certain fuel facilities
85-61	Misadministrations to Patients Undergoing Thyroid Scans	7/22/85	All power reactor facilities holding an OL and certain fuel facilities
85-60	Defective Negative Pressure Air-Purifying, Fuel Facepiece Respirators	7/17/85	All power reactor facilities holding an OL or CP
85-59	Valve Stem Corrosion Failures	7/17/85	All power reactor facilities holding an OL or CP.
85-58	Failure Of A General Electric Type AK-2-25 Reactor Trip Breaker	7/17/85	All power reactor facilities designed by B&W and CE holding an OL or CP
85-57	Lost Iridium-192 Source Resulting In The Death Of Eight Persons In Morocco	7/16/85	All power reactor facilities holding an OL or CP; fuel facilities; and material licensees
85-56	Inadequate Environment Control For Components And Systems In Extended Storage Or Layup	7/15/85	All power reactor facilities holding an OL or CP
85-55	Revised Emergency Exercise Frequency Rule	7/15/85	All power reactor facilities holding an OL or CP

OL = Operating License  
CP = Construction Permit