



THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

P.O. BOX 5000 - CLEVELAND, OHIO 44101 - TELEPHONE (216) 622-9800 - ILLUMINATING BLDG. - 55 PUBLICSQUARE

Serving The Best Location in the Nation

MURRAY R. EDELMAN
VICE PRESIDENT
NUCLEAR

July 5, 1985
PY-CEI/OIE 0077 L

Mr. James G. Keppler
Regional Administrator, Region III
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

RE: Perry Nuclear Power Plant
Docket No. 50-440; 50-441
BBC K-Line Breaker
Overcurrent Trip Devices
Model OD-4 and OD-5
[RDC 138(85)]

Dear Mr. Keppler:

This letter serves as the final report pursuant to 10CFR50.55(e) concerning the potentially significant deficiency with electro-mechanical trip devices manufactured by Brown Boveri, Inc. This item was originally identified to Mr. F. Jablowski of your office on June 6, 1985 by Mr. P. P. Martin of the Cleveland Electric Illuminating Company (CEI). Brown Boveri, Inc. reported this condition to the NRC in accordance with 10CFR21 on May 3, 1985.

Description of Deficiency

Brown Boveri, Inc. (BBC) notified CEI in a letter dated May 24, 1985, that their low voltage K-line DC circuit breakers equipped with electro-mechanical OD-4 and OD-5 trip devices may have an incorrect short time delay band lever (link). The incorrect links were inadvertently installed by BBC between the dates of October 1983 and March 1985. These types of devices are used in Safety-Related Class 1E 4.16 KV switchgear originally supplied to PNPP by BBC.

Analysis of Safety Implication

The use of the incorrect link would cause the short time element of the overcurrent trip device to be inoperative in the maximum setting. This malfunction could result in cable and/or equipment damage, in addition to the loss of selective tripping capabilities causing unnecessary shedding of unaffected essential safety-related loads.

8507170671 850705
PDR ADOCK 05000440
S PDR

1/0
IE-27

Corrective Action

Project Organization conducted a review of items supplied by BBC during the specified time period. Our investigation and subsequent inspection of both BBC supplied circuit breakers and lower mold assemblies identified seventeen (17) defective OD-4 trip devices in Project Organization Warehouse. The OD-5 model trip devices are not used at PNPP. Nonconformance Report NDS-0127 was issued by Project Organization to track the seventeen (17) defective trip devices which have been returned to BBC.

Please call if there are any additional questions.

Sincerely,

Cyril M. Shuster for

Murray R. Edelman
Vice President
Nuclear Group

MRE:sab

cc: Mr. J. A. Grobe
USNRC, Site Office

Mr. D. E. Keating
USNRC, Site Office

Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

U.S. Nuclear Regulatory Commission
c/o Document Management Branch
Washington, D.C. 20555

Records Center, SEE-IN
Institute of Nuclear Power Operations
1100 Circle, 75 Parkway, Suite 1500
Atlanta, Georgia 30339