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March 14, 1984

EF2-67820

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

Reference: Fermi-2
USNRC Licensing Docket: 50-341
USNRC IE Bulletin 83-08 (12-28-83)

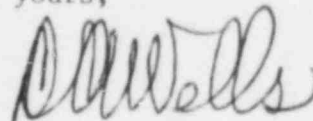
Subject: Detroit Edison Response to
NRC IE Bulletin 83-08

Dear Mr. Keppler:

In response to the subject bulletin request, we hereby submit the enclosed report on Detroit Edison's investigation of the concerns expressed therein.

Should you require additional information from Detroit Edison in this matter, please advise us.

Very truly yours,



DAW:JDR/new
enclosure

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RESPONSE TO BULLETIN 83-08

The IE Bulletin 83-08 discusses the failures and problems that have been identified with the possible improper operation of circuit breakers with undervoltage trip attachments. The subject breakers and associated problems have been previously addressed in reviews of IE Bulletins 79-09, 83-01 and 83-04, as well as IE Notice 83-76. The problems discussed in these articles referred to the General Electric (GE) type AK-2 and Westinghouse (W) type DB and DS breakers. These were usually associated with poor lubrication, maintenance or adjustment of the breakers, or binding or out of adjustment conditions in the UV device or linkage.

The following are the actions required in the IE Bulletin 83-08 and our response to each of these actions:

Action 1. Identify applications of W type DB, W type DS, or GE type AK-2 circuit breakers with the UV trip feature, as discussed in IEB 83-01 or 83-04 in safety-related applications at your facility, other than as RTB's. CP holders and licensees should also identify similar applications of other types of breakers, by other manufacturers, that use a UV trip feature. If such circuit breakers are used or planned for use, identify the system(s) involved.

Response: Fermi-2 does not employ W type DB, W type DS, or GE type AK-2 circuit breakers in any safety-related system. To assure that this statement is not negated in the future, these items have been added to the Fermi-2 "Restricted Materials/Equipment/Services List." We do use Brown Boveri (formerly ITE) 480V low voltage circuit breakers on the plant safety-related power buses 72 B, C, E, F, EA, EB, EC and ED. These breakers were purchased with an electro-mechanical undervoltage trip device. During the initial testing of the devices, it was determined that the devices did not provide sufficient adjustment for dropout voltage and time delay range to coordinate with the existing bus undervoltage tripping schemes.

As a result of this determination, design change documents - Field Modification Requests (FMRs) were issued by Engineering to remove the UV trip device from the breakers.

This removal work has been completed by the Startup Group, and the breakers have satisfactorily passed the subsequent Generic Checkout and Initial Operation Test, (Procedure #CAIO-.000.024 -- "480 v. Switchgear Breakers").

Undervoltage tripping of the safety-related buses is now provided by bus load shedding strings initiated by Brown Boveri type 27-R undervoltage relays.

This was the only non-RTB application on safety-related equipment that utilized a breaker with UV trip devices.

Action 2. Action 2, Parts 2a, 2b, 2c, and 2d are not applicable to Fermi-2, as the UV trip devices have been removed.
