

DMB

Docket No. 50-346

License No. NPF-3

Serial No. 1-531

June 19, 1985



RICHARD P. CROUSE  
Vice President  
Nuclear  
(419) 249-5221

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

Dear Mr. Keppler:

IE Bulletin No. 84-02 (Log No. 1-932) concerned failures of General Electric type HFA relays in use in Class IE safety systems. This bulletin requested a replacement plan and schedule for replacing nylon or lexan coil spool-type HFA relays used in normally energized safety-related applications and nylon coil spool-type HFA relays used in normally de-energized safety-related applications. In response to IE Bulletin No. 84-02, Toledo Edison submitted Serial No. 1-450 dated July 13, 1984. This letter discussed the fifty-six General Electric type HFA relays used in safety-related applications at the Davis-Besse Nuclear Power Station Unit No. 1. Serial No. 1-450 referred to six of the fifty-six relays as being normally energized. It has been determined that two of these six relays are not normally energized. Accordingly this letter is submitted to supersede Serial No. 1-450 and reflects the fact that there are four rather than six normally energized relays. It also provides an updating of the status of the replacement of the affected normally energized, lexan coil spool-type HFA relays.

All fifty-six relays are lexan coil spool-type and are DC excited. No nylon coil spool-type HFA relays are used in safety-related applications. No HFA relays are used in reactor trip systems at Davis-Besse Nuclear Power Station Unit 1. The four normally energized, lexan coil spool-type HFA relays are being replaced before the end of the 1986 refueling outage.

General Electric recommended that the lexan coil spool-type relay be replaced with a HFA Century Series Tefzel coil spool-type relay. Toledo Edison has reviewed the qualification documents for the Century Series Tefzel coil spool-type relay and determined that the relay meets the requirements of the applicable IEEE standards.

8507230419 850619  
PDR ADOCK 05000346  
Q PDR

JUN 24 1985

IE 11

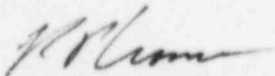
Docket No. 50-346  
License No. NPF-3  
Serial No. 1-531  
June 19, 1985  
Page 2

Visual inspections were performed upon receipt of this bulletin. The inspection consisted of observing through the relay covers whether or not the coils bobbins had visible cracks or evidence of melting. The lexan coil spools appeared to be in good working condition. Similar visual inspections will be performed on a monthly basis until the safety-related normally energized relays are replaced.

IE Bulletin 84-02, Item 1c, "Plants in Operation" requested that Toledo Edison provide a basis for continuing operation for the period of time until the normally energized relays are replaced. Based on the following reasons, continued operation of the plant is justified until the normally energized relays are replaced: (1) The four normally energized relays are being replaced before the end of the 1986 refueling outage; (2) No HFA relays are utilized in reactor trip systems; (3) Visual inspections have been performed and will continue to be performed on a monthly basis until the relays are replaced; (4) There have been no failures of the approximately 191 HFA relays used in both safety-related (56) and nonsafety-related (135) applications during the plant's history; and (5) the four normally energized HFA relays in service in safety applications at Davis-Besse are "DC" excited. In IE Bulletin 84-02, reference is made on Page 1 and 2 to HFA Series "AC" relays. General Electric Instruction GEH-2024C (Multicontact Auxiliary Relay Type HFA51) lists the burdens for AC and DC excited HFA relays in the picked up position. The DC coil burden is listed as 7.8 Watts while the AC coil burden is greater, listed as 12 Watts (32 volt-amperes).

To assist the NRC in evaluating the cost of this bulletin, the Toledo Edison staff time to perform the requested review and prepare the requested documentation was approximately 400 manhours.

Very truly yours,



RPC:DRW:lah

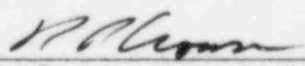
cc: DB-1 NRC Resident Inspector

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

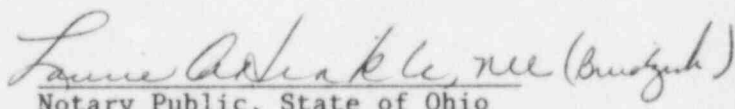
ATOMIC ENERGY ACT OF 1954  
SECTION 182a  
SUBMITTAL IN RESPONSE  
FOR THE  
DAVIS-BESSE NUCLEAR POWER STATION  
UNIT NO. 1  
FACILITY OPERATING LICENSE NPF-3

This letter (Serial No. 1-531) is submitted in conformance with Atomic Energy Act of 1954 Section 182a in response to IE Bulletin 84-02 (Log No. 1-932). This deals with failure of General Electric Type HFA Relays in use in Class IE Safety Systems.

By

  
R. P. Crouse  
Vice President, Nuclear

Sworn to and subscribed before me this 19<sup>th</sup> day of June, 1985.

  
Notary Public, State of Ohio

LAURIE A. BRUDZINSKI  
Notary Public, State of Ohio  
My Commission Expires May 16, 1986