

AUGUST 12 1981

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Docket No. 50-346

Mr. Richard P. Crouse
Vice President, Nuclear
Toledo Edison Company
Edison Plaza
300 Madison Avenue
Toledo, Ohio 43652



Dear Mr. Crouse:

During our investigation of the inadvertent Engineered Safety Features Actuation System (ESFAS) actuation which occurred at Davis-Besse on December 5, 1980, we discovered that hardwired electrical connections exist between ESFAS instrument sensing Channels 1 and 3. Specifically, the + 15 Vdc and 24 Vdc power supply returns (floating above ground commons) within the Channels 1 and 3 ESFAS cabinets, are electrically connected. Similar connections exist between Channels 2 and 4. This matter was the subject of various telephone communications with members of your staff. However, we still consider this issue open pending a complete resolution of the need for and desirability of retaining the interconnections in question. At this time we would like for you to document in writing the information that was given to us verbally. Specifically, we request that you provide responses to the questions contained in the enclosure. We believe that your staff has previously compiled the information necessary to respond to these questions and, therefore, request a response within 30 days of receipt of this letter.

Sincerely,

*ORIGINAL SIGNED BY

JOHN F. STOLTZ*
John F. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing

Enclosure:
Request for Additional
Information

cc w/enclosure:
See next page

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CF ADDCK 05000346
CF

OFFICE	ORB#4:DL	C-ORB#4:DL				
SURNAME	Garner;cf	JStolz				
DATE	8/12/81	8/12/81				

Toledo Edison Company

cc w/enclosure(s):

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Ohio Department of Health
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Columbus, Ohio 43216

REQUEST FOR INFORMATION

DAVIS - BESSE 1

ELECTRICAL CONNECTIONS BETWEEN

ACTUATION SYSTEM CHANNELS

1. Review the ESFAS detailed electrical schematic/elementary and wiring diagrams for your facility and identify all power supply returns which are shared by (electrically interconnected between) any redundant portions of ESFAS instrument/sensing and actuation/logic channels.
2. State whether there are specific design requirement(s) which necessitated each interconnection identified in Item 1, and describe these design requirements.
3. Such interconnections do not conform to the requirements of Section 4.6 (Channel Independence) of IEEE Standard 279-1971. Provide a commitment and schedule for removing these interconnections, or provide a detailed analysis supporting their retention.