

AUG 30 1977

DOCKET NO: 50-346

LICENSEE: Toledo Edison Company

FACILITY: Davis Besse Nuclear Power Station, Unit 1

SUBJECT: SUMMARY OF MEETING HELD ON AUGUST 18, 1977 ON THE COMPATIBILITY OF INSTALLED FIRE PENETRATION SEALS AND FIRE BARRIER TESTING AT DAVIS BESSE, UNIT 1

Background and Summary

A meeting was held on August 18, 1977 between representatives of the Toledo Edison Company and the NRC staff to discuss the inspection concerns as identified by I&E (Region 3) regarding the facility installed electrical fire penetration barriers. This matter is identified in Attachment 2, item F.3 to Facility Operating License No. NPF-3, and must be resolved before the Davis Besse Unit 1 plant can proceed to Mode 1 (Power Operation). An attendance list is attached.

At this meeting, the staff stated that additional information is needed to identify the differences between the installed electrical penetration fire barriers and the related fire test configurations and conditions so that the staff may determine whether corrective actions are required prior to the Davis Besse Unit 1 plant proceeding to operating Mode 1. Specifically the staff requested that the Toledo Edison Company identify:

- (1) Silicone foam lateral dimensions (clearance) between electrical conduit, cable trays and cable raceways and edge of penetration openings which are less than the silicone foam coverage used in the fire tests.
- (2) Maximum length and/or width of the opening in the facility fire barriers which is in excess of the length and/or width of the opening used in fire tests.
- (3) The actual cable tray fill compared with the 46 percent fill as provided in the fire tests.

In addition, the staff requested that Toledo Edison Company:

- (1) Identify any significant density variations within the silicone foam installations at the plant.

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- (2) Provide comparative thermal expansion coefficient properties at the BISCO ST 20 and the Dow Corning 3-6548 silicone foam. Identify that there is acceptable bonding between these two materials where the new Dow Corning foam has been used in repairing the BISCO SF 20 used in the original installation of the fire barrier penetrations.

The staff recommended that the appropriate Region 3 inspector should take part in Toledo Edison Company's identification of the worst case conditions as identified above in order to expedite staff review of this matter. In addition, upon completion of the Toledo Edison Company's identification of the worst case items, the appropriate NRC staff involved will conduct an on-site evaluation of the adequacy of the facility fire penetration seals.

Also, the Toledo Edison Company was advised that a qualified fire protection engineer should be provided to act as a consultant for the Toledo Edison Company during the survey of the worst case items and subsequent evaluation.

The staff requested that they be notified when Toledo Edison Company will have the information available for staff review in order that arrangements can be made to have the appropriate staff and NRC consultants visit the facility site for their evaluation.

Original signed by
Leon B. Engle

L. Engle, Project Manager
Light Water Reactors Branch No. 1
Division of Project Management

Enclosure:
List of Attendees

OFFICE	DPM:LWR #1	DPM:LWR #1				
SURNAME	LEngle	JStola				
DATE	8/24/77	8/30/77				

Toledo Edison Company

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cc: Mr. Donald H. Hauser, Esq.
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ENCLOSURE

MEETING HELD ON AUGUST 18, 1977

WITH THE

TOLEDO EDISON COMPANY

DAVIS BESSE, UNIT 1

DOCKET NO. 50-346

Toledo Edison Company

L. Roe
C. Domeck
L. Haigh
G. Eichenauer

Gage-Babcock

J. Campbell

NRC-Staff

J. Stolz
V. Benaroya
P. Matthews
D. Nuttli
V. Thomas
V. Leung
F. Jablowski
L. Engle