

DISTRIBUTION

Docket File

LWR-#1 File

DVassallo

JStolz

LEngle

EHylton

AUG 29 1977

Docket No. 50-346

MEMORANDUM FOR: K. Seyfrit, Assistant Director, Division of Reactor Operations Inspection

THRU: D. Vassallo, Assistant Director for Light Water Reactors Original signed by
D. Vassallo

FROM: J. Stolz, Chief, Light Water Reactors Branch No. 1

SUBJECT: ELECTRICAL FIRE BARRIER TESTING - ITEM F-3, ATTACHMENT 2 TO LICENSE NPF-3 (DAVIS-BESSE, UNIT 1)

On August 25, 1977, a meeting was held with the Toledo Edison Company and their qualified fire protection consultant and the NRC staff (NRR and I&E). The purpose of this meeting was to address concerns originally identified by Region 3 regarding electrical fire barrier testing and the compatibility with fire penetration seals at Davis-Besse, Unit 1. This matter is stipulated as Item F-3, Attachment 2 to Facility Operating License NPF-3 and states that this matter must be resolved before allowing the facility to proceed to Mode 1.

The information presented by the Toledo Edison Company was requested by the staff at a meeting held on August 17, 1977, between representatives of the Toledo Edison Company and the NRC staff (NRR and I&E). From the information presented by the applicant for identifying the worst case conditions (fire penetration seals as compared to the fire tests) and as verified by the I&E Region III inspector, the staff at the August 25, 1977 meeting concluded that sufficient information and supporting statements by the Toledo Edison Company's qualified fire protection engineer provided a sufficient basis for allowing the Toledo Edison Company to proceed to Mode 1 with reference to Item F-3, Attachment 2 to License NPF-3.

However, the NRC staff will require additional documentation and confirmatory fire tests within six months from the Toledo Edison Company to: (1) verify the comparison of thermal properties between the original BISCO SF 20 and the new Dow-Corning 30-6548 silicone foam; (2) demonstrate the adequacy of the worst case actual wall size electrical penetrations that exceeded the wall size used in the fire test; and (3) demonstrate the adequacy of actual electrical penetrations that have less than one inch lateral silicone foam coverage (clearance).

OFFICE					
SURNAME					
DATE					

8002140826

F

AUG 29 1977

The staff will send the Toledo Edison Company a letter in about two weeks describing the details of the additional information and fire tests required together with scheduling guidance.

These matters were discussed with the Toledo Edison Company and they agreed to the course of action stated above.

Based on the above, it was agreed that the I&E letter of authorization for allowing Davis-Besse, Unit 1 to proceed to Mode 1 would include Item F-3, Attachment 2 to License NPF-3.

Original Signed by
John F. Stolz

John F. Stolz, Chief
Light Water Reactors Branch No. 1
Division of Project Management

OFFICE	LWR-#1	LWR-#1	AD/LWR		
SURNAME	LEngle:KJH	JStolz	DVassallo		
DATE	8/22/77	8/29/77	8/29/77		