



TOLEDO EDISON COMPANY  
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE  
SPECIAL REPORT

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DATE OF EVENT: January 30, 1979

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Photoelectric Detector DS 8605-E did not pass  
Surveillance Test ST 5016.04

Conditions Prior to Occurrence: The unit was in Mode 1 with Power (MWT) = 2550,  
and Load (Gross MWE) = 825.

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Description of Occurrence: While conducting Surveillance Test ST 5016.04, "Detector Channel Functional and Supervisory Circuits Checks", it was determined that Photoelectric Smoke Detector DS 8605-E in the Emergency Diesel Generator 1-1 area was not functional and a test deficiency was prepared. This led to DS 8605-E being declared inoperable at 1600 hours on January 30, 1979, which placed the unit in the Action Statement of Technical Specification 3.3.3.8, which specifies the minimum fire detection instrumentation and requires with one or more detectors inoperable that within one hour, a fire watch patrol be established and the instrument(s) restored to operable status within 14 days. A fire watch patrol was established at that time.

Designation of Apparent Cause of Occurrence: The failure of Photoelectric Detector DS 8605-E was the cause of the occurrence.

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Analysis of Occurrence: The four other area photoelectric detectors in this open room were operable, and a fire watch patrol was maintained in this area.

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Corrective Action: A fire watch patrol was maintained in the area, and a new detector was ordered. The new detector was installed under Maintenance Work Order I&C 013-005-79 and retested satisfactorily at 1529 hours on February 28, 1979, removing the unit from the Action Statement of Technical Specification 3.3.3.8.

Failure Data: There have been no previously reported failures of photoelectric detectors.

LER #79-017