

TOLEDO EDISON COMPANY
DAVIS-BESSE UNIT ONE NUCLEAR POWER STATION
SUPPLEMENTAL INFORMATION FOR LER NP-33-78-122

DATE OF EVENT: October 9, 1978

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Boric Acid Flowpath Heat Trace was declared inoperable.

Conditions Prior to Occurrence: The unit was in Mode 3, with Power (MWT) = 0, and Load (MWE) = 0.

Description of Occurrence: During the performance of ST 5011.01, Section 6.1, "Boron Injection Flowpath Heat Trace Test", on October 9, 1978, at 1510 hours, point R2-16 on the circuit log of the heat trace was found to be one degree below the 105°F temperature as required per Technical Specification Surveillance Requirement 4.1.2.2. The Boric Acid Flowpath was declared inoperable at 1530 hours on October 9, 1978, which placed the unit in the Action Statement of Technical Specification 3.1.2.2.

Designation of Apparent Cause of Occurrence: During an instrument and control checkout of the heat trace on October 10, 1978, the temperature of point R2-16 was back up to its normal value of 115°F. The surveillance test was rerun on October 12, 1978 at 0950 hours and the temperature of point R2-16 read 115°F, after which the boron injection flowpath was declared operable. Then following an electrical maintenance checkout of circuit 109, a blown fuse in the temperature controller was found. It appears that the temperature was originally increased to 115°F from the periodic injection of boric acid from the Boric Acid Addition Tank (which is at approximately 130°F) through the heat traced line. The heat trace was, therefore, thought to be operating properly until the blown fuse was discovered.

Analysis of Occurrence: There was no danger to the health and safety of the public or to unit personnel. Since the temperature was only one degree below the acceptable value, and the point at which boric acid crystallizes at the highest concentration possible coming from the Boric Acid Addition Tank is 95°F, there was no danger of any crystallization in the heat traced line.

Corrective Action: The instruments and controls of the heat trace point R2-16 were checked and found to be working properly on October 10, 1978, under Instrument and Control Work Request I&C-3052. The electrical components were checked on October 14, 1978, under Maintenance Work Request 78-1441 and a blown fuse was discovered in the temperature controller. It was replaced, and the circuit was checked out and found to be operating properly.

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The surveillance test of the boric acid heat trace was repeated on October 12, 1978, at 0950 hours. The boric acid flowpath was declared operable, and the unit was removed from the Action Statement of Technical Specification 3.1.2.2.

Failure Data: There have been no previous reported similar occurrences.

LER #78-103