

**LICENSEE EVENT REPORT**

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

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REPORT SOURCE L 6 0 5 0 - 0 3 4 6 7 1 0 0 8 7 9 8 1 1 0 1 7 9 9

60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

SYSTEM CODE P C 11		CAUSE CODE B 12		CAUSE SUBCODE A 13		COMPONENT CODE Z Z Z Z Z Z 14		COMP. SUBCODE Z 15		VALVE SUBCODE Z 16	
EVENT YEAR 7 9 21 22		SHUT DOWN METHOD Z 21		SEQUENTIAL REPORT NO. 0 9 24 26		OCCURRENCE CODE / 27		REPORT TYPE L 30		REVISION NO. 0 32	
ACTION TAKEN X 18		EFFECT ON PLANT Z 20		HOURS 0 0 22		ATTACHMENT SUBMITTED Y 23		NPRD-4 FORM SUB. N 24		PRIME COMP. SUPPLIER A 25	
FUTURE ACTION F 19		SHUT DOWN METHOD Z 21		HOURS 0 0 22		ATTACHMENT SUBMITTED Y 23		NPRD-4 FORM SUB. N 24		PRIME COMP. SUPPLIER A 25	
CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27											

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

7 8 9  
FACILITY STATUS (28) % POWER (29) OTHER STATUS (30)  
1 5 F 6 9 2 NA  
7 8 9 10 12 13 44  
ACTIVITY CONTENT  
RELEASED OF RELEASE AMOUNT OF ACTIVITY (35)  
1 6 Z (33) Z (34) NA  
7 8 9 10 12 13 44  
METHOD OF DISCOVERY (31) DISCOVERY DESCRIPTION (32)  
B Operator observation  
45 45 80  
LOCATION OF RELEASE (36)  
NA  
45 80

PERSONNEL INJURIES	
NUMBER	DESCRIPTION
1 0 0 0	NA

7 8 9 10  
PUBLICITY  
ISSUED DESCRIPTION (45)  
2 0 N 14 NA  
NRC USE ONLY

NRC USE ONLY

DVR 79-148 NAME OF PREPARER Erdal C. Caba PHONE: 419-259-5000, Ext. 236  
7911140 319

TOLEDO EDISON COMPANY  
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE  
SUPPLEMENTAL INFORMATION FOR LER NP-33-79-115

DATE OF EVENT: October 8, 1979

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Boric Acid Flowpath Heat Trace declared inoperable

Conditions Prior to Occurrence: The unit was in Mode 1, with Power (MWT) = 2482, and Load (Gross MWE) = 840

Description of Occurrence: On October 8, 1979 at 2115 hours, during the performance of Boron Injection Heat Trace Test ST 5011.01, Section 6.01, heat trace point R2-39 in the flowpath from the concentrated boric acid storage system, was found to be two degrees below the 105°F minimum limit. This required the flowpath be declared inoperable placing the unit in the Action Statement of Technical Specification 3.1.2.2.a. This requires the inoperable flowpath be made operable within 72 hours or be in hot shutdown within the next six hours.

Designation of Apparent Cause of Occurrence: The test failed because the minimum heat trace temperature could not be met at one point. The temperatures were low because there was a lot of water added through the line as the plant returned to power following a planned maintenance outage. This water addition is required for boron control in the Reactor Coolant System. Due to deficiencies in the design of this system, the addition of cold demin water reduces the temperature in the heat trace line below the minimum limit. The temperatures had not quite stabilized before the technical specification late date had passed.

Analysis of Occurrence: There was no danger to the health and safety of the public or to station personnel. The flowpath from the Borated Water Storage Tank (BWST) was operable. The point which failed in the concentrated boric acid addition system was only two degrees below the 105°F minimum desired temperature and was still well above the temperature that would have caused boron crystallization and possible line blockage for the boric acid involved.

Corrective Action: The heat trace test ST 5011.01, Section 6.01, was successfully performed at 1915 hours on October 9, 1979.

Facility Change Request 78-508 was written to look into the possibility of modifying the technical specifications since the much cooler makeup water flowpath utilizes the same section of heat traced piping; or to design a heat exchanger into the system to heat the water before it reaches the heat traced portion of the pipe; or to add additional heat trace to keep the temperatures ≥ 105°F even if cold water is injected.

Failure Data: Previous occurrences were reported in Licensee Event Reports NP-33-78-132 and NP-33-79-15.

LER #79-099

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