NRC FORM 366 (7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

CONTROL BLOCK: ① (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1	LICENSEE CODE: O H D B S 1 ②	LICENSE NUMBER: Ø Ø - Ø Ø N P F - Ø 3 ③	LICENSE TYPE: 4 1 1 1 1 ④	CAT ⑤

CON'T 0 1	REPORT SOURCE: L ⑥	DOCKET NUMBER: Ø 5 Ø - Ø 3 4 6 ⑦	EVENT DATE: Ø 1 1 6 7 9 ⑧	REPORT DATE: Ø 2 1 2 7 9 ⑨

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES ⑩

0 2 At 1727 hours on 1/16/79 when Makeup Pump 1 was started for surveillance testing, a
0 3 1/2" nipple at the discharge of the attached gear driven lube oil pump failed which
0 4 caused an oil spray requiring shutdown of the pump. The unit was placed in the Action
0 5 Statement of Tech Spec 3.1.2.4. There was no danger to the health and safety of the
0 6 public or unit personnel. Makeup Pump 1-2 was operable. A shutdown of the unit for a
0 7 planned outage was in progress when the event occurred. (NP-33-79-17)
0 8

0 9	SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
	P C ⑪	E ⑫	X ⑬	P I P E X X ⑭	A ⑮	Z ⑯

⑰ LER/RO REPORT NUMBER	EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
	7 9	—	Ø 1 3	/	Ø 3	L	—	Ø

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS ㉒	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
A ⑱	X ⑲	Z ⑳	Z ㉑	Ø Ø Ø Ø	Y ㉓	Y ㉔	N ㉕	B 2 6 Ø ㉖

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS ㉗

1 0 The cause is suspected to be fatigue failure caused by vibration of the piping. The
1 1 nipple and bushing that it threads into were replaced. An inspection of lube oil sys-
1 2 tems on both makeup pumps was made for evidence of any potential failures and none
1 3 were found.
1 4

1 5	FACILITY STATUS	% POWER	OTHER STATUS ㉚	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION ㉜
	G ㉘	Ø Ø Ø ㉙	NA	B ㉛	Surveillance Test ST 5011.01

1 6	ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY ㉟	LOCATION OF RELEASE ㊱
	Z ㉝	Z ㉞	NA	NA

PERSONNEL EXPOSURES

1 7	NUMBER	TYPE	DESCRIPTION ㊴
	Ø Ø Ø ㊲	Z ㊳	NA

PERSONNEL INJURIES

1 8	NUMBER	DESCRIPTION ㊶
	Ø Ø Ø ㊵	NA

LOSS OF OR DAMAGE TO FACILITY ㊸

1 9	TYPE	DESCRIPTION
	Z ㊷	NA

PUBLICITY

2 0	ISSUED	DESCRIPTION ㊺
	N ㊹	NA

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NRC USE ONLY

DVR 79-020 NAME OF PREPARER James Adams PHONE: 419-259-5000, Ext. 252

TOLEDO EDISON COMPANY
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE
SUPPLEMENTAL INFORMATION FOR LER NP-33-79-17

DATE OF EVENT: January 16, 1979

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Makeup Pump 1 was inoperable

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

Description of Occurrence: At 1727 hours on January 16, 1979, Makeup Pump 1 was started for an operational test in accordance with ST 5011.01, "Boron Injection Flowpath Test". Failure of a 1/2" nipple at the discharge of the attached gear driven lube oil pump caused an oil spray which required shutdown of the pump.

At 1730 hours, Makeup Pump 1 was declared inoperable. The unit was placed in the Action Statement of Technical Specification 3.1.2.4, which requires that two Makeup Pumps be operable in Modes 1, 2, 3, and 4 (Mode 4 with Reactor Coolant System pressure > 150 psig). The Action Statement requires that the inoperable pump to be in an operable status within 72 hours or the unit be in Hot Standby (Mode 3) within the next six hours.

Designation of Apparent Cause of Occurrence: The cause of the failure of the pipe nipple is suspected to be fatigue failure caused by vibration of the piping. Proper materials were installed, and there is no visual evidence of improper installation or any excessive mechanical force.

Analysis of Occurrence: There was no danger to the health and safety of the public or to unit personnel. Makeup Pump 2 was operable. A shutdown of the unit for a planned outage was in progress when the event occurred. The unit went into Mode 5 (cold shutdown) at 1815 hours on January 17, 1979.

Corrective Action: On January 18, 1979, under Maintenance Work Order 79-1298, the nipple that failed and bushing that it threads into were replaced. An inspection of lube oil systems on both makeup pumps was made for evidence of any potential failures and found none. After satisfactory completion of ST 5011.01, on Makeup Pump 1, the pump may be declared operable, removing the unit from the Action Statement of Technical Specification 3.1.2.4.

Failure Data: Although there have been previous reports concerning lube oil leaks, (NP-33-78-107 - oil leak inboard deflector disc and NP-33-77-073 - oil leak outboard bearing end plate), this is the first occurrence of a piping failure.