NRC FORM 366 (7-77)

U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

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

Field	Value
01 Licensee Code (2)	O H D B S 1
License Number (3)	Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø
License Type (4)	4 1 1 1 1
CAT (5)	
CON'T 01 Report Source (6)	L
Docket Number (7)	Ø 5 Ø - Ø 3 4 6
Event Date (8)	Ø 1 Ø 2 8 1
Report Date (9)	Ø 2 Ø 2 8 1

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 (NP-33-81-01) On 1/2/81 at 1938 hours, Reactor Coolant Pump (RCP) 1-2 was shutdown due
03 to high seal return temperature and deteriorating seal staging. The high flux and
04 flux/delta flux/flow trip setpoints were reset per T.S. 3.4.1. On 1/6/81 at 0730 hours
05 RCP 2-1 was shutdown due to deteriorated seal staging. The turbine/generator was
06 tripped, and the reactor shutdown. The plant entered Mode 3 at 0803 hours in compli-
07 ance with T.S. 3.0.3. There was no danger to the health and safety of the public or
08 to station personnel.

09 System Code (11)	Cause Code (12)	Cause Subcode (13)	Component Code (14)	Comp. Subcode (15)	Valve Subcode (16)
C B	E	X	P U M P X X	X	Z

(17) LER/RO Report Number	Event Year		Sequential Report No.		Occurrence Code	Report Type		Revision No.
	8 1	—	Ø Ø 2	/	Ø 3	L	—	Ø

Action Taken (18)	Future Action (19)	Effect on Plant (20)	Shutdown Method (21)	Hours (22)	Attachment Submitted (23)	NPRD-4 Form Sub. (24)	Prime Comp. Supplier (25)	Component Manufacturer (26)
A	X	A	A	Ø 6 Ø Ø	Y	Y	N	B 5 8 Ø

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 The cause was the shutdown of reactor coolant pumps due to seal degradation. The
11 seals restrain reactor coolant syscem (RCS) pressure and liquid. Under Maintenance
12 Work Order 80-4162 and 80-4163, the seals were replaced. Toledo Edison Company and
13 Byron Jackson, the seal vendor, are investigating the cause of the seal failures.
14

15 Facility Status (28)	% Power (29)	Other Status (30)	Method of Discovery (31)	Discovery Description (32)
E	Ø 5 5	NA	A	Operator observation

16 Activity Released (33)	Content of Release (34)	Amount of Activity (35)	Location of Release (36)
Z	Z	NA	NA

Personnel Exposures

17 Number (37)	Type (38)	Description (39)
Ø Ø Ø	Z	NA

Personnel Injuries

18 Number (40)	Description (41)
Ø Ø Ø	NA

Loss of or Damage to Facility (43)

19 Type (42)	Description
Z	NA

Publicity

20 Issued (44)	Description (45)
N	NA

NRC USE ONLY

DVR 81-001 & 81-004

NAME OF PREPARER James Syslo PHONE (419) 259-5000, Ext. 253

8102100159

TOLEDO EDISON COMPANY
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE
SUPPLEMENTAL INFORMATION FOR LER NP-33-81-01

DATE OF EVENT: January 2, 1981

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Controlled Shutdown of Reactor Coolant Pumps 1-2 and 2-1 Due to Seal Degradation

Conditions Prior to Occurrence: The unit was in Mode 1, with Power (MWT) = 1525 and Load (Gross MWE) = 495

Description of Occurrence: On January 2, 1981 at 1938 hours, control room operators shutdown Reactor Coolant Pump (RCP) 1-2 due to a high seal return temperature of 170°F and deteriorating seal staging. The station was running at a reduced power level. Instrument and Control personnel reset the hi flux and the flux/delta flux/flow setpoints to 78.5 percent rated thermal power as required by Technical Specification 3.4.1. The action statement requires that in Mode 1, with one pump not in operation, power operation may proceed provided thermal power is restricted to less than 80.2 percent of rated thermal power and within 4 hours the setpoints for the high flux and the flux/delta flux/flow trips be reduced.

On January 6, 1981 at 0730 hours, control room operators shutdown RCP 2-1 due to deteriorated seal staging. Reactor power had been reduced to 15 percent prior to tripping the pump. Following the pump trip, the turbine/generator was tripped, and the reactor shutdown. The plant entered Mode 3 at 0803 hours in compliance with Technical Specification 3.0.3.

Designation of Apparent Cause of Occurrence: The cause of the occurrence was the controlled shutdown of RCPs for repairs. The pumps were shutdown to prevent further degradation of the seals.

Analysis of Occurrence: There was no danger to the health and safety of the public or to station personnel. The reactor was shutdown, placing it in a safe condition.

Corrective Action: Under Maintenance Work Orders 80-4162 and 80-4163, the mechanical seals were replaced. Toledo Edison Company and Byron Jackson, the seal vendor, are investigating the cause of the seal failure.

Failure Data: Three previous controlled shutdowns of a reactor coolant pump were reported in Licensee Event Reports NP-33-[illegible]044), NP-33-79-120 (79-103) and NP-32-80-03 (80-019).

LER #81-002