

LICENSEE EVENT REPORT

CONTROL BLOCK:

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(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT 58

CON'T

0	1	REPORT SOURCE	L	6	5	0	0	0	3	4	6	7	0	1	2	7	8	3	8	0	2	2	5	8	3	9
7	8		60	61	DOCKET NUMBER						68	69	EVENT DATE				74	75	REPORT DATE							80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 (NP-33-83-10) On 1/27/83 it was determined that the acceptance criteria of the Con-

0 3 tainment Airlock Seal Leakage Surveillance Test ST 5061.05 did not agree with the

0 4 surveillance requirements of Technical Specification 4.6.1.3.a. Technical Specifica-

0 5 tion 4.6.1.3.a requires testing both the personnel and the emergency air locks at 10

0 6 psig to verify no detectable leakage. Per ST 5061.05, the air lock seals have been

0 7 considered to be acceptable with leakage of 0-100 sccm. There was no danger to the

0 8 health and safety of the public or station personnel.

SYSTEM CODE S D 11		CAUSE CODE D 12		CAUSE SUBCODE Z 13		COMPONENT CODE P E N E T R 14				COMP. SUBCODE A 15		VALVE SUBCODE Z 16					
EVENT YEAR 8 3		SEQUENTIAL REPORT NO. 0 0 5		OCCURRENCE CODE 0 3		REPORT TYPE L		REVISION NO. 0									
ACTION TAKEN G 18		FUTURE ACTION Z 19		EFFECT ON PLANT Z 20		SHUTDOWN METHOD Z 21		HOURS 0 0 0 0 22		ATTACHMENT SUBMITTED Y 23		NPRD-4 FORM SUB N 24		PRIME COMP. SUPPLIER Z 25		COMPONENT MANUFACTURER Z 9 9 9 26	

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The cause was a procedure deficiency. The incorrect change to the procedure was

1 1 submitted along with a procedure modification submitted on 9/16/76. A procedure

1 2 modification, T-6995, has been submitted to correct the error noted in Surveillance

1 3 Test ST 5061.05.

1	4											80		
7	8	9												
FACILITY STATUS			% POWER			OTHER STATUS			METHOD OF DISCOVERY			DISCOVERY DESCRIPTION		
1	5	G	28	0	0	0	29	NA	30	A	31	Found by design reviewer of ST 5061.05		
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

ACTIVITY CONTENT
RELEASED OF RELEASE AMOUNT OF ACTIVITY (35)

1 6 2 33 4 34 NA 44

LOCATION OF RELEASE (36)

NA 45 80

PERSONNEL EXPOSURES										
NUMBER		TYPE		DESCRIPTION (39)						
1	7	0	0	0	(37)	2	(38)	NA		

PERSONNEL INJURIES	
NUMBER	DESCRIPTION
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7 8 9 10 11 12 NA

LOSS OF OR DAMAGE TO FACILITY (43)

TYPE		DESCRIPTION
1	9	Z (42) NA

7 8 9 10
 PUBLICITY
 ISSUED DESCRIPTION (45) 8303080522 830225
 N (44) NA PDR ADOCK 05000346
 S PDR
 NRC USE ONLY

TOLEDO EDISON COMPANY
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE
SUPPLEMENTAL INFORMATION FOR LER NP-33-83-10

DATE OF EVENT: January 27, 1983

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Containment Air Lock Seal Leakage Test
Acceptance Criteria Error

Conditions Prior to Occurrence: The unit was in Mode 5, with Power
(MWT) = 0 and Load (Gross MWE) = 0

Description of Occurrence: On January 27, 1983, at approximately 3:00 p.m., it was determined by the designated reviewer of Surveillance Test ST 5061.02, with input from the Davis-Besse Technical Section, that the acceptance criteria of Surveillance Test ST 5061.05, Containment Airlock Seal Leakage Test, did not agree with surveillance requirements of Technical Specification 4.6.1.3.a, and that there was no documentation available to support the discrepancy. Technical Specification 4.6.1.3.a requires that the volume between the double seals on both doors of both the personnel and the emergency air locks be tested (after opening) at 10 psig to verify no detectable leakage. Otherwise, the seals must be tested at 38 psig, and a seal leakage of less than .0015 La (approximately 1500 sccm) is allowed. Surveillance Test ST 5061.05 stated that a leakage of less than 100 sccm was allowable when testing at 10 psig, otherwise the seals had to be tested at the higher pressure.

On several occasions in the past, the most recent being January 6, 1982, the air lock seals have been tested and considered to be acceptable with leakage of 0-100 sccm without being tested at the higher pressure. Tests conducted on and after January 10, 1982 have always shown no detectable leakage; therefore, retesting was not required and no mode changes were required when the discrepancy was first noted.

Designation of Apparent Cause of Occurrence: The cause of the occurrence was a procedure deficiency. The incorrect change to the procedure was submitted along with a procedure modification submitted on September 16, 1976. Several persons who are (or were) familiar with the procedure (ST 5061.05) believe that NRC documentation exists that would allow an air lock leakage of 100 sccm at 10 psig test pressure. Such documentation could not be found; however, the belief that it exists may have prevented the discrepancy from being noted earlier.

Analysis of Occurrence: There was no danger to the health and safety of the public or station personnel. With an air lock seal leakage of less than 100 sccm at 10 psig, the seals would have leaked less than the allowable 1500 sccm (.0015 La) if they had been tested at 38 psig. In addition, the seals are tested entirely in parallel under Surveillance Test ST 5061.05 so that leakage measured is the sum of the leakage with full test pressure across each of four single door seals per airlock. If

TOLEDO EDISON COMPANY
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE
SUPPLEMENTAL INFORMATION FOR LER NP-33-83-10
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an actual containment pressurization due to a LOCA occurred, all four instead of one of the seals would have to leak in order for airlock seal leakage out of containment to occur. Further, the reduced pressure drop across each seal (because they would have to leak in series) would reduce any potential leakage even more.

Corrective Action: A procedure modification (T-6995) has been submitted to correct the error noted in Surveillance Test ST 5061.05. A major modification is being submitted which will make the correction permanent.

Failure Data: There have been no previous similar occurrences.

LER #