

LICENSEE EVENT REPORT

CONTROL BLOCK: 1

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0	1	0	H	D	B	S	1	2	0	0	-	0	0	0	0	-	0	0	3	4	1	1	1	1	4	5									
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									
LICENSEE CODE														LICENSE NUMBER										LICENSE TYPE										CAT 58	

CONT

0	1	L	6	0	5	0	0	0	3	4	6	7	0	1	3	1	8	3	8	0	3	0	1	8	3	9					
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					
REPORT SOURCE		DOCKET NUMBER										EVENT DATE										REPORT DATE									

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

(NP-33-83-14) On 1/31/83 at 0938 hours, the Station experienced a loss of 120 VAC essential bus Y1. This placed the unit in the action statement of Technical Specification (TS) 3.8.2.1. At 1200 hours on 1/31/83 after returning the Y1 bus to service at 1134 hours, Control Room operators noticed the loss of pressurizer level indication from LT-RC-14-3. This invoked TS 3.3.3.6. There was no danger to the public or station personnel. Redundant instrumentation was continuously available.

0	8	7	8	9
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0	9	E	B	11	E	12	A	13	C	K	T	B	R	K	14	X	15	Z	16	17	8	3	18	0	0	7	19	0	3	20	L	21	0	22	0	0	0	23	Y	24	Y	25	Z	26	9	9	9	27	
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	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50						
SYSTEM CODE		CAUSE CODE		CAUSE SUBCODE		COMPONENT CODE										COMP. SUBCODE		VALVE SUBCODE		LER-RO REPORT NUMBER		EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE		REVISION NO.		ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED		NPRD-4 FORM SUB.		PRIME COMP. SUPPLIER		COMPONENT MANUFACTURER	

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

The cause of the loss of Y1 was the failure of the YV1 inverter input fuse, however, the root cause of the failure is unknown. Under Maintenance Work Order 83-1027, the fuse was replaced. The cause of the loss of pressurizer level indication was the failure of the amplifier for LT-RC-14-3. On 2/11/83, a new amplifier was installed under Maintenance Work Order 83-1700.

1	5	C	28	0	0	0	29	NA	A	31	Operator observation
7	8	9	10	11	12	13	14	15	16	17	18
FACILITY STATUS		% POWER		OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION			

1	6	Z	33	Z	34	NA	NA	NA
7	8	9	10	11	12	13	14	15
ACTIVITY RELEASED		CONTENT OF RELEASE		AMOUNT OF ACTIVITY		LOCATION OF RELEASE		

1	7	0	0	0	37	Z	38	NA
7	8	9	10	11	12	13	14	15
PERSONNEL EXPOSURES		NUMBER		TYPE		DESCRIPTION		

1	8	0	0	0	40	NA
7	8	9	10	11	12	13
PERSONNEL INJURIES		NUMBER		DESCRIPTION		

1	9	Z	42	NA
7	8	9	10	11
LOSS OF OR DAMAGE TO FACILITY		DESCRIPTION		

1	9	Z	42	NA
7	8	9	10	11
PUBICITY		DESCRIPTION		

2	0	N	44	NA
7	8	9	10	11
ISSUED		DESCRIPTION		

8303140540 830301
PDR AD0CK 05000346
S PDR

NRC USE ONLY

TOLEDO EDISON COMPANY
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE
SUPPLEMENTAL INFORMATION FOR LER NP-33-83-14

DATE OF EVENT: January 31, 1983

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Loss of 120 VAC Essential Bus Y1

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

Description of Occurrence: On January 31, 1983 at 0938 hours, the Station experienced a loss of 120 VAC Essential Bus Y1. This placed the unit in the action statement of Technical Specification 3.8.2.1. As a result of the loss of Y1, the following instrumentation was de-energized: Reactor Protection System Channel 1 (Technical Specification 3.3.1.1), Safety Features Actuation System Channel 1 (Technical Specification 3.3.2.1), Steam and Feedwater Rupture Control System Channel 1 (Technical Specification 3.3.2.2), Auxiliary Shutdown Panel Channel 1/Loop 1 instruments (Technical Specification 3.3.3.5), Post-Accident Monitoring Instrumentation Channel 1 (Technical Specification 3.3.3.6), Chlorine Detector AE 5358A (Technical Specification 3.3.3.7).

At 1200 hours on January 31, 1983, after returning control of the Y1 bus to service at 1134 hours, Control Room operators noticed the loss of pressurizer level indication from LT-RC-14-3. This invoked Technical Specification 3.3.3.6 action item (a) which required the station to have repaired the instrument within 30 days or be in Hot Shutdown within 12 hours.

Designation of Apparent Cause of Occurrence: The cause of the loss of Y1 was the failure of the YV1 inverter input fuse. However, the root cause of the fuse failure is unknown.

The cause of the loss of pressurizer level indication was the failure of a component in the amplifier for LT-RC-14-3, which occurred when the Y1 bus was re-energized. The root cause is believed to be due to the re-energization of the Y1 bus which placed a surge voltage on the transmitter's amplifier.

Analysis of Occurrence: There was no danger to the health and safety of the public or station personnel. Redundant instrumentation was continuously available.

Corrective Action: Under Maintenance Work Order 83-1027, the inverter input fuse was replaced. Y1 bus was returned to service at 1134 hours on January 31, 1983, removing the unit from the action statements.

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On February 11, 1983, a new amplifier was installed under Maintenance Work Order 83-1700, and the transmitter recalibrated. Surveillance Test ST 5036.02, Section 6.1, for LT-RC-14-3 to verify operability was completed, and the transmitter was declared operable at 1550 hours on February 11, 1983.

Failure Data: A previous similar occurrence of the loss of a 120 VAC essential bus was reported in Licensee Event Report NP-33-80-74 (80-064).

There have been no similar occurrences reported of the loss of pressurizer level indication.

LER #83-007