

LICENSEE EVENT REPORT

8005020298

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

0	1	0	H	D	B	S	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	1	1	1	1	4	5
7	8	9	LICENSEE CODE					14	15	LICENSE NUMBER										25	26	LICENSE TYPE					30	57	CAT	58

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

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 (NP-33-80-36) On 3/31/80 at 1154 hours operations received a half trip of Steam and

0 3 Feedwater Rupture Control System Channel 1/3. This half trip was due to a trip of the

0 4 +15 volt power supply PS03 in Steam Generator Level Instrumentation Cabinet 1. The

0 5 unit entered the action statement of Technical Specification 3.3.2.2 which requires

0 6 the inoperable section to be placed in the tripped condition within one hour. There

0 7 was no danger to the public or station personnel. The channel failed in the safe

0 8 direction. The other channels were operable during this event.

0	9	C	H	11	E	12	G	13	I	N	S	T	R	U	14	P	15	Z	16	8	0	2	7	0	3	L	0	17										
7	8	SYSTEM CODE		9	10	CAUSE CODE		11	12	CAUSE SUBCODE		12	COMPONENT CODE					13	COMP. SUBCODE		19	VALVE SUBCODE		20	SEQUENTIAL REPORT NO.		24	OCCURRENCE CODE		28	REPORT TYPE		30	REVISION NO.		32		
17	LER/RO REPORT NUMBER		EVENT YEAR		21	22	ACTION TAKEN		33	FUTURE ACTION		34	EFFECT ON PLANT		35	SHUTDOWN METHOD		36	HOURS				37	ATTACHMENT SUBMITTED		41	NPRD-4 FORM SUB.		42	PRIME COMP. SUPPLIER		43	COMPONENT MANUFACTURER				44	47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The cause was a failure of the +15 volt DC power supply PS03 in Steam Generator Level

1 1 Instrumentation Cabinet 1. This power supply was being monitored from a previous fail

1 2 ure. A check showed the output voltage had slowly increased until the overvoltage pro

1 3 tection circuit actuated. Under MWO IC-24-80 the defective power supply was replaced.

1 4 Channel 1 was declared operable at 1701 hours on 3/31/80.

1	5	E	28	0	6	2	29	NA	30	A	31	Operator observation															32					
7	8	FACILITY STATUS		9	% POWER		10	12	13	OTHER STATUS		44	METHOD OF DISCOVERY		45	46	DISCOVERY DESCRIPTION															80

1	6	Z	33	Z	34	NA	35	NA	36									
7	8	ACTIVITY CONTENT		9	RELEASED OF RELEASE		10	11	AMOUNT OF ACTIVITY				44	LOCATION OF RELEASE				80

1	7	0	0	0	37	Z	38	NA	39							
7	8	PERSONNEL EXPOSURES		9	NUMBER		11	TYPE		12	DESCRIPTION				13	80

1	8	0	0	0	40	NA	41						
7	8	PERSONNEL INJURIES		9	NUMBER		11	DESCRIPTION				12	80

1	9	Z	42	NA	43								
7	8	LOSS OF OR DAMAGE TO FACILITY		9	TYPE		10	DESCRIPTION				11	80

2	0	N	44	NA	45									
7	8	PUBICITY ISSUED		9	DESCRIPTION				10	NRC USE ONLY				80

TOLEDO EDISON COMPANY
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE
SUPPLEMENTAL INFORMATION FOR LER NP-33-80-36

DATE OF EVENT: March 31, 1980

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Partial de-energization of Steam and Feedwater Rupture Control System (SRCS) Channel 1

Conditions Prior to Occurrence: The unit was in Mode 1, with Power (MWT) = 1717.5 and Load (Gross MWE) = 524.

Description of Occurrence: At 1154 hours on March 31, 1980, operations personnel received a one half trip on SFRCS Channels 1/3. This half trip was due to a trip of the +15 volt power supply PS03 in Steam Generator Level Instrumentation Cabinet 1.

This placed the unit in the action statement of Technical Specification 3.3.2.2 which requires the inoperable section to be placed in the tripped condition within one hour during Modes 1, 2, and 3. The inoperable section was already in the tripped condition.

Designation of Apparent Cause of Occurrence: The apparent cause of this occurrence was found to be failure of the +15 volt DC power supply PS03 in Steam Generator Level Instrumentation Cabinet 1. A previous trip from the same power supply had occurred on January 31, 1980 (see Licensee Event Report NP-33-80-15). Initial troubleshooting under Maintenance Work Order (MWO) IC-245-80 revealed no apparent problems within the cabinet or the power supply. Chart recordings of the power supply output indicated that over the time period from the previous occurrence to the present, power supply output voltage drifted in excess of one volt. Finally, the power supply output increased to 16.5 volts DC where the overvoltage protection circuit actuated causing the output to drop to zero volts DC resulting in a half trip to SFRCS Channel 1. Prior to any disruption in the circuitry the input voltage was checked and found to be within the design tolerance of the power supply, confirming no problems in the input circuitry.

Analysis of Occurrence: There was no danger to the health and safety of the public or to station personnel. The other SFRCS channel was operable during the time that SFRCS Channel 1 was inoperable. The SFRCS Channel 1 failed in the safe direction.

Corrective Action: The defective power supply was replaced under MWO IC-246-80. All SFRCS power supply outputs will be monitored on a periodic basis to check for drift. Channel 1 was declared operable at 1701 hours on March 31, 1980. The failed power supply was returned to the vendor for analysis.

Failure Data: Previous +15 volt DC power supply failures (Sorenson) are reported in Licensee Event Reports NP-33-79-113 (79-097), NP-33-79-148 (79-131), and NP-33-80-15 (80-011).