

### LICENSEE EVENT REPORT

CONTROL BLOCK: [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] (1)

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01	O	H	D	B	S	1	2	0	0	-	0	0	N	P	F	-	0	3	3	4	1	1	1	1	4	5													
7	8	9	LICENSEE CODE														14	15	LICENSE NUMBER									25	26	LICENSE TYPE					30	57	58	59	60

CONT

01	L	6	0	5	0	-	0	3	4	6	7	1	0	1	4	7	9	8	1	1	0	9	7	9	9	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 | On October 14, 1979 at 1638 hours, group 7 rod 7 Absolute Position Indication (API)

0 3 | indicated asymmetric for a period of two minutes, cleared, and again indicated asym-

0 4 | metric for a period of four minutes and did not clear. This placed the unit in the

0 5 | Action Statement of Technical Specification 3.1.3.3. Unit power was reduced to 60%

0 6 | and the high flux setpoint reduced to 70%. There was no danger to the health and

0 7 | safety of the public or station personnel. The Relative Position Indicators and

0 8 | zone reference indication were operable. (NP-33-79-116) 80

09	R	B	11	E	12	A	13	I	N	S	T	R	U	14	E	15	Z	16	17	7	9	21	22	23	1	0	0	24	25	0	3	28	29	L	30	31	0	32	0	A	18	C	19	B	20	Z	21	0	0	2	0	37	40	Y	23	Y	24	N	25	D	1	5	0	44	47	26
7	8	SYSTEM CODE		CAUSE CODE		CAUSE SUBCODE		COMPONENT CODE								COMP. SUBCODE		VALVE SUBCODE		LER/RO REPORT NUMBER	EVENT YEAR		SHUTDOWN METHOD	SEQUENTIAL REPORT NO.			ATTACHMENT SUBMITTED	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)

1 0 | The problem appears to be in the cable which supplies power to the API and returns the

1 1 | signal to the position indication panels. Under Maintenance Work Order 79-3229, the

1 2 | cable was replaced with a new high temperature cable and a rebuilt PI tube was instal-

1 3 | led. Investigation of recurring API problems continues.

15	E	28	1	0	0	29	NA	30	A	31	Operator observation	32	1	6	Z	33	Z	34	NA	35	NA	36	37	Z	38	NA	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
7	8	FACILITY STATUS		% POWER				OTHER STATUS				METHOD OF DISCOVERY						DISCOVERY DESCRIPTION																														
7	8	ACTIVITY CONTENT		RELEASED OF RELEASE				AMOUNT OF ACTIVITY				LOCATION OF RELEASE																																				

17	0	0	0	37	Z	38	NA	39	18	0	0	0	40	NA	41	19	Z	42	NA	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
7	8	PERSONNEL EXPOSURES				NUMBER		TYPE		DESCRIPTION																											
7	8	PERSONNEL INJURIES				NUMBER		DESCRIPTION																													
19	Z	42	NA	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60																
7	8	LOSS OF OR DAMAGE TO FACILITY		TYPE		DESCRIPTION																															

20	N	14	NA	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
7	8	PUBLCITY ISSUED		DESCRIPTION		NRC USE ONLY																																	

TOLEDO EDISON COMPANY  
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE  
SUPPLEMENTAL INFORMATION FOR LER NP-33-79-116

DATE OF EVENT: October 14, 1979

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Group 7 Rod 7 Absolute Position Indication inoperable due to repeated asymmetric alarms

Conditions Prior to Occurrence: The unit was in Mode 1, with Power (MWT) = 2772, and Load (Gross MWe) = 923.

Description of Occurrence: On October 14, 1979 at 1638 hours, Group 7 Rod 7 Absolute Position Indication (API) indicated asymmetric for a period of two minutes, cleared, and again indicated asymmetric for a period of four minutes and did not clear. The API for Rod 7 of Group 7 was declared inoperable. This placed the unit in the Action Statement of Technical Specification 3.1.3.3 which requires all regulating control rod API and relative position indications (RPI) be operable and capable of determining the control rod positions within  $\pm 6.5\%$  in Mode 1.

The unit power was reduced to 60% and the high flux setpoint was reduced to 70%. The RPI and zone reference indication were operable while the API was inoperable.

Designation of Apparent Cause of Occurrence: The apparent cause of the occurrence appears to be in the cable which supplies power to the API and returns the signal to the position indication panels. During a previous shutdown, the position indicator tube for Rod 7-7 was replaced and the old tube sent to Diamond Power, the PI tube vendor. Their investigation of the tubes sent back was that the PI tubes had experienced a high temperature condition above its rating. This probably occurred when the ventilation fans for the head were not operating at an earlier date.

Analysis of Occurrence: There was no danger to the health and safety of the public or station personnel. The relative position indication and zone reference indication for the rod was operating and the group position indicator was indicating properly while the API channel was inoperable.

Corrective Action: Under Maintenance Work Order (MWO) 79-3229, the cable from the bulkhead to the reactor head was changed for Rod 7-7 with a new high temperature cable, and a partially rebuilt PI tube was installed. Since the unit has returned to power, the API has been operable. The station and Babcock and Wilcox are investigating several permanent corrective actions for the replacement of cables and PI tubes. Procedure modifications to SP 1105.09 have been incorporated to assure that service structure ventilation fans are in service during final walkdown.

Failure Data: Previous API failures were reported in Licensee Event Reports NP-33-77-63, NP-33-78-144, NP-33-78-149, NP-33-79-31, NP-33-79-90, NP-33-79-97, and NP-33-79-100.

LER #79-100

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