NRC FORM 366 (7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

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

Line	Field	Value
0 1	LICENSEE CODE (2)	I L D R S 3
	LICENSE NUMBER (3)	0 0 - 0 0 0 0 0 - 0 0
	LICENSE TYPE (4)	4 1 1 1 1
	CAT (5)	
0 1 CON'T	REPORT SOURCE (6)	L
	DOCKET NUMBER (7)	0 5 0 0 0 2 4 9
	EVENT DATE (8)	0 9 3 0 7 8
	REPORT DATE (9)	1 0 3 0 7 8

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 While pumping down torus during normal operation, indicated level increased on Wide
0 3 Range Monitor LI-1602-8. After pumping, level drifted back to original indication.
0 4 Safety implications minimal because redundant narrow -range level indicator was op-
0 5 erable. There are no previous similar occurrences.
0 6
0 7
0 8

0 9	SYSTEM CODE (11)	CAUSE CODE (12)	CAUSE SUBCODE (13)	COMPONENT CODE (14)	COMP. SUBCODE (15)	VALVE SUBCODE (16)
	S B	E	B	I N S T R U	E	Z

(17) LER/RO REPORT NUMBER	EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
	7 8	—	0 4 4	/	0 3	L	—	0

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)
F	Z	Z	Z	0 0 0 0	Y	N	N	B 0 8 0

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 Binding of mechanical linkage connecting torque tube drive to ferrite cam caused
1 1 erratic movement of cam. Instrument was upgraded following vendors instructions by
1 2 replacing cam with strain gage transducer.
1 3
1 4

1 5	FACILITY STATUS (28)	% POWER (29)	OTHER STATUS (30)	METHOD OF DISCOVERY (31)	DISCOVERY DESCRIPTION (32)
	E	0 9 7	NA	A	Operational Event

1 6	ACTIVITY RELEASED (33)	CONTENT OF RELEASE (34)	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
	Z	Z	NA	NA

PERSONNEL EXPOSURES

1 7	NUMBER (37)	TYPE (38)	DESCRIPTION (39)
	0 0 0	Z	NA

PERSONNEL INJURIES

1 8	NUMBER (40)	DESCRIPTION (41)
	0 0 0	NA

LOSS OF OR DAMAGE TO FACILITY (43)

1 9	TYPE (42)	DESCRIPTION
	Z	NA

PUBLICITY

2 0	ISSUED (44)	DESCRIPTION (45)
	N	NA

7811060162

NRC USE ONLY

NAME OF PREPARER Carl Lindberg PHONE: X289

GPO 917-926

ATTACHMENT TO LICENSEE EVENT REPORT 78-044/03L-0
COMMONWEALTH EDISON COMPANY (CWE)
DRESDEN UNIT -3 (ILDRS-3)
DOCKET # 050-249

While the torus was being pumped down from -2" (referenced to the Torus center line), the Wide Range Monitor LI-1602-8 was observed to increase in indication to +3". The torus was pumped down to -4½" as indicated on the Narrow Range Indicator 1640-2 and the local sightglass. Upon securing the level at -4½", the Wide Range Indicator drifted back to a -2" reading. The Wide Range Torus Transmitter 3-1626 monitors the torus level for a given 50" level span. The Transmitter Analog Output supplies indication to EPN LI-1602-8. Torus level must be maintained between the limits of -1.5" to -4.75" for a one psi drywell to torus pressure difference per Dresden Tech Spec Section 3.7. The safety implications were minimal because the redundant Narrow-Range Level Transmitter 1640-1 was operable and its accuracy was verified by the Unit 3 local sightglass physically mounted on the side of the Torus.

The cause was attributable to binding of the mechanical linkage connecting the torque tube drive to the Ferrite Cam and the resulting erratic movement of the Ferrite Cam itself. Similar Barton Model 296 transmitters, which are no longer manufactured, have demonstrated drift problems in the past. The instrument was upgraded in accordance with the manufacturers instructions by replacing the cam with a strain gage transducer from a Barton Model 368 transmitter.

Upon completion of the mechanical replacement, surveillance DIS 1600-5; Wide Range Section only, was completed satisfactorily to demonstrate proper operation. Both Wide Range and Narrow Range Torus Water Level transmitters and their respective indicators will continue to be tested semi-annually to ascertain compliance with the Technical Specifications.