(7-77)

LICENSEE EVENT REPORT

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

Line	Field	Value
0 1	Licensee Code (2)	N Y I P S 2
	License Number (3)	0 0 - 0 0 0 0 0 - 0 0
	License Type (4)	4 1 1 1 1
	CAT (5)	
CON'T 0 1	Report Source (6)	L
	Docket Number (7)	0 5 0 0 0 2 4 7
	Event Date (8)	0 5 2 3 7 8
	Report Date (9)	0 6 2 0 7 8

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 During low power physics testing, test operation of one of the high head
0 3 SIS pumps confirmed suspected leakage past the seat of one of swing
0 4 check valves downstream of pump No. 22. Since there was no convenient
0 5 way to quantify the amount of leakage, the reactor was brought sub-
0 6 critical for disassembly and inspection of the valve internals. This
0 7 event is of the type described in Technical Specification 3.3.A.1.d.
0 8

0 9	System Code (11)	Cause Code (12)	Cause Subcode (13)	Component Code (14)	Comp. Subcode (15)	Valve Subcode (16)
	S F	E	B	V A L V E X	C	A

(17) LER/RO Report Number	Event Year		Sequential Report No.		Occurrence Code	Report Type		Revision No.
	7 8	—	0 1 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)
A	Z	A	A	0 0 0 0	Y	Y	N	V 0 8 5

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 A Velan 4 inch primary swing check valve (Dwg. 78501) was disassembled
1 1 to determine cause of seat leakage. On inspection, the valve disc
1 2 was found adrift with the two hanger bracket bolts and lock brackets
1 3 missing. The valve was reassembled with new bolts.
1 4

1 5	Facility Status (28)	% Power (29)	Other Status (30)	Method of Discovery (31)	Discovery Description (32)
	B	0 0 3	NA	A	Operator Observation

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

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PDR ADOCK 05000247
S PDR

PUBLICITY

2 0	Issued (44)	Description (45)
	N	NA

NRC USE ONLY

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GPO 917-926

ATTACHMENT I

Docket No. 50-247 Consolidated Edison Co. of N.Y., Inc.

LER-78-014/03L-0 Indian Point Unit No. 2

On May 23, 1978, during low power physics testing, No. 21 high head safety injection pump was started to confirm suspected leakage past the seat of one of the two parallel check valves downstream of No. 22 high head safety injection pump. The three installed high head SIS pumps discharge into a piping arrangement which feeds two high pressure injection headers. These headers are arranged such that each high pressure header can be fed from two of the three safety injection pumps. When No. 21 pump was shutdown, the pressure in the injection header associated with that pump immediately decayed to zero. This fact, coupled with previous test results, confirmed that there was leakage past the seat of check valve 852A. Since there was no convenient method for quantifying the amount of leakage and its overall effect on system performance, the reactor was shutdown for disassembly and inspection of the valve.

Upon removal of the valve cover, the valve disc was found adrift with the two 3/8-inch hanger bracket bolts and associated lock-brackets missing. There was no apparent damage to any of the valve internal components. The hanger bracket was reassembled with new bolts utilizing lock wire for bolt retention. After reassembly of the valve cover, the SIS was declared operable and low power physics testing resumed. All repair work associated with the check valve was completed within the time frame permitted by the Technical Specifications.

A safety evaluation was performed to evaluate the possible effects of the missing parts on plant operation. This evaluation demonstrated that the missing parts would not degrade SIS or RCS operation.

There was no apparent reason found to account for the hanger bracket bolts coming loose. Proper operation of this and the three remaining similar check valves will be monitored during the monthly functional test of the high head safety injection pumps. In addition, an internal inspection of the three similar check valves is planned for the first outage of sufficient duration.