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

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

012 | At 10:45 a.m. the unit operator observed that there was no position indication on
013 | 1A Recirculation Pump discharge valve M0-1-202-5A. The breaker for the valve motor
014 | was found tripped and it could not be reset. This caused LPCI mode of RHR to be
015 | inoperable. Surveillances were done to satisfy the requirements for LPCI mode of
016 | RHRs being inoperable in accordance with Technical Specification 3.5.A.5. Safe
017 | plant operation was not affected by this occurrence.

SYSTEM CODE		CAUSE CODE		CAUSE SUBCODE		COMPONENT CODE				COMP. SUBCODE		VALVE SUBCODE	
C	B	E		A		E	E	L	E	C	O	N	Z
9	10	11	12	13	14	15	16	17	18	19	20	21	
EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE		REVISION NO.					
8	1		0	0	7		0	3	L		0		
21	22	23	24	25	26	27	28	29	30	31	32		
ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED		NPRD-4 FORM SUB.	
X		A		B		Z		0	0	1	2	Y	
33	34	35	36	37	38	39	40	41	42	43	44	45	46
PRIME COMP. SUPPLIER		COMPONENT MANUFACTURER											
N		N		S	2	0	2						
47	48	49	50	51	52	53	54						

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS

1	Cable number 12507 leading to valve M0-1-202-5A inside the drywell was tested
2	electrically and found to have several shorted conductors. Reactor power was
3	reduced to approximately 200 MWe for a drywell entry so that a temporary cable
4	could be installed. Valve M0-1-202-5A and its associated interlocks were tested
5	satisfactorily and LPCI was operable at 3:15 a.m. on March 14, 1981.

9
FACILITY STATUS (E) (28) 0 9 9 (29) NA (30) METHOD OF DISCOVERY (A) (31) Operational Event (32) DISCOVERY DESCRIPTION
9 10 12 13 44 45 46 80
ACTIVITY CONTENT
RELEASED OF RELEASE AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE (36)
9 10 11 44 45 80
PERSONNEL EXPOSURES
NUMBER TYPE DESCRIPTION (39)
9 11 12 13 80
PERSONNEL INJURIES
NUMBER DESCRIPTION (41)
9 11 12 80
LOSS OF OR DAMAGE TO FACILITY (43)
TYPE DESCRIPTION NA
9 10 80
PUBLICITY (45)
9 10 80
8104210 515
NRC USE ONLY
68 69 80

Fred Kaeppe

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- I. LER NUMBER: LER/RO 81-7/03L-0
- II. LICENSEE NAME: Commonwealth Edison Company
Quad-Cities Nuclear Power Station
- III. FACILITY NAME: Unit One
- IV. DOCKET NUMBER: 050-254
- V. EVENT DESCRIPTION:

At 10:45 a.m. on March 13, 1981, Unit One was in the RUN mode operating at a steady power level of 812 MWe and 2486 MWt. At 10:45 a.m. the unit operator observed that the 1A Recirculation Pump discharge valve M0-1-202-5A showed no position indication. An equipment attendant, sent to investigate the problem, determined that the breaker, at motor control center 18/19-5, for the valve motor had tripped. The breaker was reset and it tripped again.

Technical Specification 3.5.A.3. requires the LPCI mode of the RHR system to be operable when irradiated fuel is in the reactor. Since the breaker tripped and the valve could not be operated, LPCI was declared inoperable. This was due to the fact that LPCI loop-select depends on closure of valve M0-1-202-5A in the event of a recirc pipe break on the B recirc loop. LPCI injection into the A loop with the 5A valve remaining open would have likely resulted in water being injected into the shroud rather than into the core. Work Request Q11582 was written to investigate the cause and repair.

VI. PROBABLE CONSEQUENCES OF THE OCCURRENCE:

Technical Specification 3.5.A.5. requires that both core spray subsystems, the containment cooling mode of RHR, two RHR pumps and two standby diesel generators be demonstrated to be operable at the time that LPCI is declared inoperable. Two RHR pumps used for containment cooling had been demonstrated to be operable on the previous day and remained operable thereafter. The remaining items were demonstrated to be operable per the Technical Specification at the time of declaring LPCI inoperable.

Safe plant operation was not affected by this occurrence.

VII. CAUSE:

The 12 conductor control cable for the valve motor consists of cable #12506 from the motor control center to the drywell, the drywell penetration itself, and cable #12507 within the drywell from the penetration to the valve motor. Several conductors of cable #12507 were shorted together, causing the breaker to trip and the position indication in the Control Room to be lost.

VIII. CORRECTIVE ACTION:

Cable #12507 runs through conduit and cable trays in the drywell and could not be visually inspected in its entirety. An electrical test revealed that several conductors of the cable had shorted. A temporary 5-conductor flexible cable was installed to replace the shorted conductors. The cable and hardware used to install it were approved under the Quality Assurance program. The cable was run in open air and is routed away from heat sources within the drywell.

The cable was tested satisfactorily by stroking valve M0-1-202-5A and checking to see that the recirculation pump tripped when valve M0-1-202-5A was closed.

Work Request Q11606 was written to permanently install cable #12507 at the time of the next convenient scheduled Unit One outage of sufficient length.