(7-77)

LICENSEE EVENT REPORT

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

0 1 | | | L | L | S | C | 1 (2) | 0 0 - 0 0 0 0 0 - 0 0 (3) | 4 1 1 0 0 0 (4) | | (5)

LICENSEE CODE | LICENSE NUMBER | LICENSE TYPE JO | CAT

CON'T

0 1 | REPORT SOURCE L (6) | 0 5 0 0 0 3 7 3 (7) | 1 0 1 2 5 8 2 (8) | 1 1 1 2 8 2 (9)

DOCKET NUMBER | EVENT DATE | REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 |

0 3 | On October 26, 1982, at approximately 0945, both Reactor Recirculation (RR) pumps

0 4 | received a downshift signal. The 1A pump downshifted, however the 1B pump did not

0 5 | "pick up" in slow speed, and drifted to a stop. The 1A pump then tripped. Reactor

0 6 | level was maintained at safe operating levels throughout the event. At approximately

0 7 | 1045, both RR pumps were run satisfactorily in low speed. Safe plant operation was

0 8 | maintained at all times.

0 9 | SYSTEM CODE C J (11) | CAUSE CODE B (12) | CAUSE SUBCODE A (13) | COMPONENT CODE C K T B R K (14) | COMP. SUBCODE X (15) | VALVE SUBCODE Z (16)

(17) LER/RO REPORT NUMBER: EVENT YEAR 8 2 | SEQUENTIAL REPORT NO. 1 3 7 | OCCURRENCE CODE 0 3 | REPORT TYPE L | REVISION NO. 0

ACTION TAKEN X (18) | FUTURE ACTION F (19) | EFFECT ON PLANT Z (20) | SHUTDOWN METHOD Z (21) | HOURS (22) 0 0 0 0 | ATTACHMENT SUBMITTED Y (23) | NPRD-4 FORM SUB. N (24) | PRIME COMP. SUPPLIER N (25) | COMPONENT MANUFACTURER G 0 8 1 0

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 |

1 1 | The cause for the downshift signal was a feedwater low flow transient. The signal

1 2 | for the RR pump motor breakers, did not occur simultaneously. Because of this signal

1 3 | delay, the RR pump 1B low speed "pick up" permissives were not all present. Modifica-

1 4 | tion 1-1-82-299 was initiated to eliminate this transfer problem.

1 5 | FACILITY STATUS B (28) | % POWER 0 4 4 (29) | OTHER STATUS (30) NA | METHOD OF DISCOVERY A (31) NA | DISCOVERY DESCRIPTION (32)

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

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

1 8 | PERSONNEL INJURIES NUMBER 0 0 0 (40) | DESCRIPTION (41) NA

1 9 | LOSS OF OR DAMAGE TO FACILITY TYPE Z (42) | DESCRIPTION NA

2 0 | PUBLICITY ISSUED N (44) | DESCRIPTION (45)

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PDR ADOCK 05000373
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NRC USE ONLY

NAME OF PREPARER J. J. Hietela

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I. LER NUMBER: 82-137/03L-0

II. LASALLE COUNTY STATION: Unit 1

III. DOCKET NUMBER: 05000373

IV. EVENT DESCRIPTION:

On October 26, 1982, at approximately 0945, both Reactor Recirculation pumps received a downshift signal. The 1A pump downshifted, however, the 1B pump did not "pick up" in slow speed, and drifted to a stop. The 1A pump then tripped.

V. PROBABLE CONSEQUENCES OF THE OCCURRENCE:

Reactor level was maintained at safe operating levels throughout the event. At approximately 1045 both reactor recirculation pumps were run satisfactorily in low speed. Safe operation of the plant was maintained at all times.

VI. CAUSE:

The cause for the downshift signal was a feedwater low flow transient. The initiation signal, to trip the high speed breakers 3A and 3B, and to cause the initiation of the RR pump motor transfer to the Low Frequency Motor Generator (LFMG), did not occur simultaneously. The delay between signals was caused by the low feedwater flow signal being sent by two separate devices, 1C34-K618A and 1C34-K618B, and then being relayed through the separate 15 second delays, K29A and K29B, before the signal is sent to the breaker controls for transfering speeds. In order for the "B" RR pump motor to transfer to the LFMG, the "B" pump must be running at greater than 1700 RPM and the 3A breaker must be tripped. The "A" pump transfer requires the opposite. There was a delay between the transfer signals such that the 3B breaker tripped, and the "B" pump coasted to less than 1700 RPM before the 3A breaker tripped. This delay had to be at least 250 milliseconds (the time it takes to coast from 1790 to 1700 RPM) for this to occur. The "B" pump therefore coasted down to 0 speed, while the "A" pump picked up in slow speed.

VII. CORRECTIVE ACTION:

Present circuit integrity was verified under Work Request L20054. Modification 1-1-82-299 was initiated to modify the RR breaker control circuit to alleviate the transfer problem when a delay between transfer signals exists.

Prepared by: J. J. Hietala