11.111 LICENSEE EVENT REPORT (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION) CONTROL BLOCK: 03 -10 10 00 00 - 01 111 0 10 411 LZ IIS (2)0 1 LICENSE NUMUEH LICENSEE CODE CONT 13 8 1 501 01 01211 IL 0151010101219 4115 811 KB) REPORT 6 0 1 SOURCE HEPORT DATE DOCKET NUMBER EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10) [While in hot shutdown mode (borated to CSD boron conc.), closure time 0 2 testing of unit one MSIV's was preformed. 1B MSIV failed to close. Bv 03 TS 3.9.4.A the MSIV's are required to close within 5 seconds as a condi-0 4 The FSAR accounts for the failure of one MSIV, tion of operability. 0 5 therefore, the health and safety of the public was not affected. 0 6 Previous LER's 50-304: 74-41, 76-19, 78-14, 78-69 and 50-295: 77-95. 0 7 0 8 COMP VALVE CODE CAUSE CAUSE COMPONENT CODE SUBCOD E (16) VE X E (12) B (13) VA X (14 D (11 0 9 13 18 REVISION OCCURRENCE REPORT SEQUENTIAL CODE NO. TYPE REPORT NO. EVENT YEAR LER'RO 0 L 0 0 2 (17) REPORT 0 8 11 30 22 COMPONENT MANUFACTURER NPRO-PRIME CONTP SUBMITTED METHOD EFFECT ON PLANT HOURS (22) TAKEN FORM SUB SUPPLIER Y (24) 101 A (25) T 81 01 a Y 23 10 01 (21) A (18) CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27) to the failure of 2DC solenoid valves (Teledyne 2111-62002 |Cause was due 10 1-2800 and Keane 13255-110-02C-EM) to actuate. The MSIV was closed 1 1 These valves allow fluid to flow to the pilo locally within the hour. 1 2 joperated check valves, causing MSIV closure. Cause investigation 1 3 [continuing, an updated LER will follow. 1 4 80 .9 OTHER STATUS 30 METHOD OF DISCOVERY DESCRIPTION (32) FACILITY & POWER d 0 (29) B (31) H (28) observa 0 Operator 1 5 80 ACTIVITY CONVENT NA ACTIVITY OF RELEASE LOCATION OF RELEASE (36) NA 1 6 80 10 PERSONNEL EXPOSURES DESCRIPTION (39) -010 12 38 NUMBER NA PERSONNEL INJUITES DESCRIPTION (41) NUMBER 0 0 40 NA 0 1 8 80 12 LOSS OF OR DAMAGE TO FACILITY (43) DESCRIPTION 1 9 (42) NA 10 NAC USE ONLY PUBLICITY DESCRIPTION (45) NI 111111111 (14) NA 2 0 69 10 481 312-746-2084 X251 M. J. Manning ALIMANT.

ATTACHMENT TO LER No. 81-002/03 L-0 Commonwealth Edison Co. Zion Generating Station 50-295

Description of Event

While in the hot shutdown mode and borated to the cold shutdown conditions, the refueling closure time testing of Unit 1 MSIV's was performed. 1B MSIV failed to close upon manual actuation from the control room. Technical Specification 4.9.4.A requires a closure time of less than 5 seconds as a condition to demonstrate operability. Operability of the MSIV's is a limiting condition for operation (Technical Specification 3.9.4.A). The valve was closed within an hour.

Consequences of Occurrence

Technical Specification 3.9.4 requires all MSIV's to be operable whenever the plant is not in cold shutdown condition. Had a steam line rupture occurred upstream of the MSIV's, the steam check valves were available to prevent the blowdown of more than one steam generator inside containment. Had a break occurred downstream of the MSIV's, 1B steam generator would have blown down completely as assumed in the FSAR (section 14.2.5). Therefore, the health and safety of the public was not affected by this event.

Cause of Occurrence

Loop B MSIV 1HOV-MS0004, failed to close due to concurrent failures of 2 DC solenoid valves (Teledyne-Republic Model 21110-6202-2800 and Keane Control Model 132SS-110-02C-EM) to actuate. There are two independent trains of valves that can cause closure of the MSIV's. Each DC solenoid valve is on a separate train. The function of this valve is to allow fluid to flow to the pilot operated check valves of their train, opening them, and causing MSIV closure to occur. In this way, i, a failure occurred in one train of valves the other train would be able to close the MSIV.

Cause of Occurrence cont'

The Teledyne solenoid energized upon actuation from the control room, but the valve failed to shift. This failure of the valve to shift is due to the impurities in the oil settling out on the valves surface over the months the valve lays idle. This has been a recurring problem. See previous LER's 50-295/77-95, 50-304/74-41, 76-19, 78-14, 78-69.

The Keane valve solenoid failed to energize upon actuation from the control room and failed to actuate manually. The valve is being sent back to Keane Controls to determine the cause of the failure. This is the first occurrence of this type on the Keane valves.

Corrective Action

The last 4 Teledyne values on all MSIV's are being replaced with Keane values this outage to finish a modification that resulted from Teledyne problems. The failed Keane value has been replaced with another Keane value and the operability of the MSIV will be proven prior to startup. The Keane values have been in service for over 2 years on the average with no failures. An investigation is being conducted to determine actions to be taken in regari to the Keane value failure. A follow-up LER will be written with the results of the investigation.