



DUANE ARNOLD ENERGY CENTER

Iowa Electric Light and Power Company

Licensee Event Report - Supplemental Data

Docket No. 050-0331

Licensee Event Report Date: 11-5-82

Reportable Occurrence No: 82-067

Event Description:

During normal operation surveillance testing, the 'A' LPCI injection valve, MOV-2003, failed to close completely. LPCI was declared inoperable and a 24-hour limiting condition for operation (LCO) was entered in accordance with Technical Specification 3.5.A.6. MOV-2003 was stroked under observation and met all requirements for valve operation. MOV-2003 was declared operable and the LCO was lifted after approximately 2 hours. Investigation continued into the root cause of the event. At this time it was believed that the valve stem had been binding due to lack of lubrication. During lubrication of the stem, mounting bolts for the motor operator yoke ring were found loose. LPCI was again declared inoperable and a second 24-hr LCO was entered for approximately 3 1/2 hours. The 'B' LPCI injection valve, MOV-1905, was operable, providing LPCI capabilities if there was no leakage from the 'B' reactor recirculation loop. There have been no previous similar occurrences with MOV-2003.

Cause Description:

The closure of MOV-2003 was halted by the motor operator torque limit switch. The loose yoke ring allowed the motor operator and stem to become misaligned. Because of this misalignment, excessive torque was required to operate the valve. The retaining bolts for the yoke ring had not been sufficiently tightened during the last maintenance on MOV-2003 due to a combination of inadequate personnel training and inadequate procedures.

Corrective Action:

To return MOV-2003 to operable status, the yoke ring retaining bolts were torqued to 150 ft-lbs. The related bolts on MOV-1905 were sufficiently tight. To prevent recurrence maintenance procedures are currently being reviewed to identify and correct those procedures which are deficient. Any deficient procedures found will be technically upgraded. In addition, maintenance personnel will be properly trained to perform these procedures.