



CAUSE DESCRIPTION AND CORRECTIVE ACTION

Because of the failure of CU-18 torque switch, it is believed when the valve reached its full open position motor torque increased causing a rapid increase in armature current due to the loss of counter EMF. The increased current flow overheated the armature and caused the armature/brush resistance to increase, thereby increasing the overall motor resistance and decreasing the motor current. Over a period of time deterioration of motor insulation resulted in a short circuit developing which tripped its circuit breaker. Further inspection of the motor circuit resulted in circuit breaker replacement because of erratic latching operation. The motor and torque switch were replaced and the system returned to operation.