

OPERATING PROCEDURE RESETTING EARTHQUAKE VALVES

APPLICATION

Resetting of earthquake valves after they have been tripped by a seismic event or other cause. Should a major earthquake occur near LBNL, gas flow in some or all distribution piping will be shut off by the action of earthquake valves. Follow EMER-024 before resetting any earthquake valves. Resetting tripped earthquake valves is necessary before gas service can be restored.

SPECIAL INSTRUCTIONS

- Requires GGM key (to unlock gate at Hearst Monitoring Station).

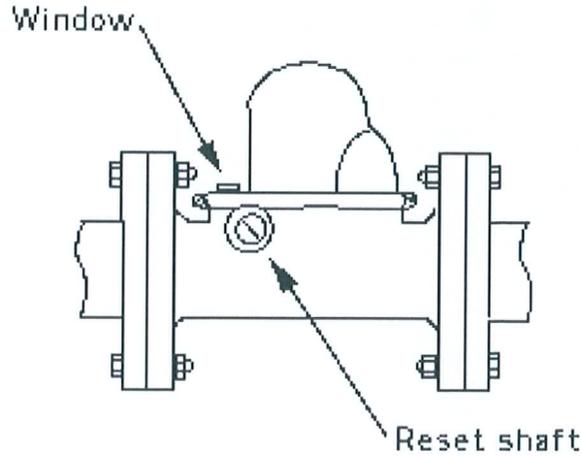
WORK STEPS.PROCEDURE TABLE A: Reset main hill earthquake valve (near Hearst Monitoring Station)

1. Determine why earthquake valve closed. If valve closed as a result of an earthquake, inspect downstream piping for leaks and breaks.
2. Proceed to reset valve only if it is safe to do so. Restore gas service only when authorized by the Maintenance Supervisor.
3. Close valve V38G downstream of the main hill earthquake valve. Close valve V40G upstream of the main hill earthquake valve.
4. Remove all ignition sources from the area.
5. Depressurize the isolated section of line.
6. Reset valve as described in Procedure Table B, steps 6-10.

WORK STEPS.PROCEDURE TABLE B: Reset earthquake valves (KOSO types)

1. Determine why earthquake valve closed. If valve closed as a result of an earthquake, inspect downstream piping for leaks and breaks.
2. Check that the word CLOSED is visible through the window on top of the valve.
3. Rotate reset shaft counterclockwise. Use a screwdriver for series 312 and 313, a hex wrench for series 314, 315, and 316. This opens a small poppet valve, allowing pressure to equalize across the main seat.
4. Once pressure is equalized, rotate the reset shaft until the word OPEN appears in the window. The valve is now open and set to respond to a seismic disturbance.
5. If the reset shaft does not return to its original position or the valve remains closed and will not reset, remove and replace the valve.

WORK STEPS.PROCEDURE TABLE D: Reset earthquake valves (KOSO types)



KOSO VALVE

REFERENCES

EMRG-024, "Emergency Gas Procedure"
 INFO-056, "LBL Natural Gas System Manual"

CONDITION CODE:

- 10 - No defects found
- 11 - Minor repair required
- 12 - Major repair required
- 13 - Replacement required

RESPONSIBILITIES AND CONTROLS

Rev. No.	SME/Title	REV/Title	Approved/Title	Date	Effective Date
1	<i>Michael Dong</i> Michael Dong Utility Manager	<i>James Murphy</i> James Murphy Maintenance Supervisor	<i>Ken Fletcher</i> Ken Fletcher Operations Department Head	<i>5-22-09</i>	<i>5-22-09</i>