



Safe Operating Procedure

CHANGING GAS CYLINDERS in CELLAR

UNTRAINED PERSONS ARE NOT PERMITTED TO CHANGE GAS CYLINDERS

Possible Injuries

Contains gas under pressure; may explode if heated.

Inhalation If inhaled, remove from contaminated area. To protect rescuer, use an Air-line respirator or Self Contained Breathing Apparatus (SCBA). Apply artificial respiration if not breathing. Give oxygen if available. For advice contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor.

Safe Procedure

1. Inspect Operational Gas Cylinder:

- a. Check that the operational gas cylinder is chained in place.
- b. Observe the left-hand gauge on the regulator assembly attached to the operational gas cylinder. If the needle is at the last division above zero, consider the gas cylinder empty and replace it as follows.

2. Remove empty gas cylinder

- a. Check that a spare (full) gas cylinder is available, chained in place.
- b. On the empty gas cylinder, locate the isolating valve (IV), which projects upwards from the top of the cylinder. Close the IV, by turning clockwise until it stops. (*Don't force* beyond a light firm effort.)
- c. Locate the brass knurled outlet connector, which is screwed sideways onto the outlet of the IV. The outlet connector is cylindrical, has a narrow yellow band and is attached to the regulator assembly at its other end. (*Don't confuse* with the brass knurled regulator valve that projects in front of the regulator's gauges.) Unscrew the outlet connector from the outlet, by twisting anticlockwise (about 5 full turns), while holding the regulator assembly with the other hand, to support



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the regulator assembly as the outlet connector detaches. Lay the outlet connector and regulator assembly on the adjacent keg.

- d. Remove the chain from the empty gas cylinder, and rotate this cylinder away to the left.

3. Swap gas cylinders

- a. Remove the chain from the spare (full) gas cylinder. Rotate this cylinder to the operating-cylinder position and attach the chain.
- b. Rotate the empty gas cylinder to the spare-cylinder position and attach the chain. Attach the EMPTY label from the nearby hook.
- c. Remove the plastic cap from the full cylinder's IV outlet and place it in the empty cylinder's IV outlet.

4. Install full gas cylinder

- a. Check that the full cylinder's IV outlet is clean and clear.
- b. Screw the brass knurled outlet connector onto the full cylinder's IV outlet, by turning clockwise until firm.
- c. Carefully open the full cylinder's IV, by turning anticlockwise until it stops, then backing off slightly.
- d. Observe the movement of the needles on the two gauges of the regulator, which are scaled in both psi (red) and kPa (black). The left-hand one shows how full the cylinder – full should be about 10,000 kPa. The right-hand gauge shows the delivery pressure to the keg manifold – should be about 350 kPa. (*Don't adjust the brass knurled regulator valve that projects in front of the gauges.*)

Trainee: I have completed this SOP: Signature: _____ Date: _____	Trainer: Signature: _____ Date: _____
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