PROCEDURES
METER BYPASSING

6.0 PURPOSE

The purpose of this section is to establish safe and appropriate procedures for bypassing a customer meter.

Contact the customer to explain the work to be performed. Request that the customer keep gas appliance to a minimum until work has been completed.

6.1 SCOPE

A. Meter By-pass
B. By-pass Removal

6.2 BYPASS

A. Check the MSA for any abnormal conditions. Ensure that the work can be completed by means of bypassing. If it can not, notify your supervisor and prepare to turn off the meter.

B. Soap-test the entire MSA.

C. Observe the test dials for minimum registration.

D. Remove plugs from valves “A” and “D.” (see bypass methods 1 and 2)

E. Connect bypass including regulator at valve “A”.

1. Use regulator of equal or greater capacity to that of the MSA.

2. Use approved connectors for bypass.

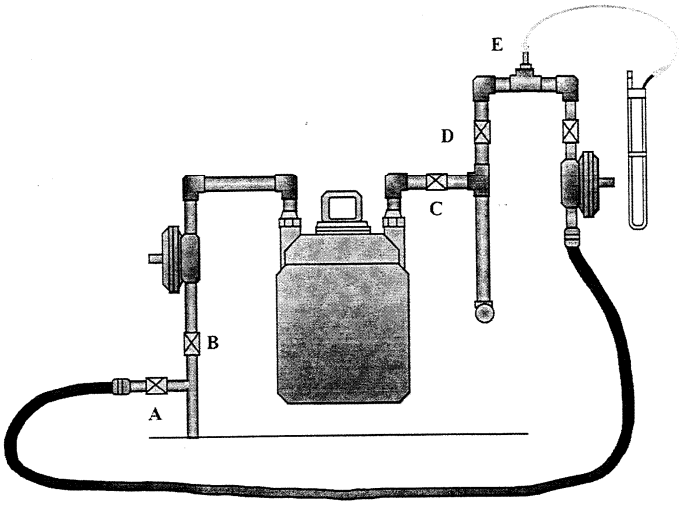
F. Connect bypass at valve “D”.

1. Use hose or pipe of equal or greater capacity to that of the single meter set or to that of the header for multiple meter sets.

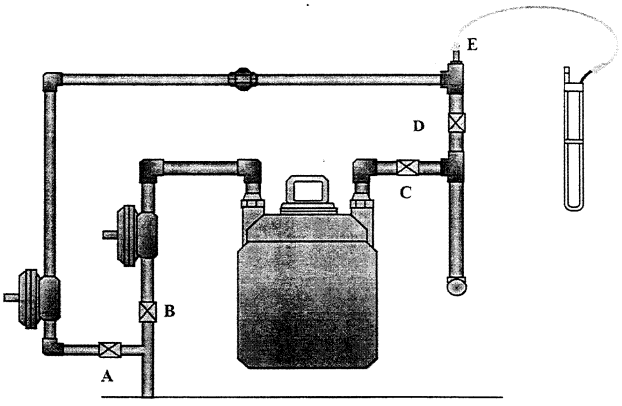
2. A gauge or manometer connection is necessary on the bypass near valve “D”.

PROCEDURES
METER BYPASSING

<u>Method One</u> (Using approved hose)



<u>Method Two</u> (Using solid piping.)



G. Turn bypass regulator adjusting screw counterclockwise until spring is completely relaxed.

H. Open valve "A" slowly and allow bypass inlet pressure to manometer/gauge connection "E". Purge air from the bypass piping or hose.

I. Install manometer or gauge at connection and set flow and lock-up.

J. Open valve "D" and check the MSA regulator delivery pressure.

K. Turn bypass regulator adjusting screw clockwise to raise the houseline pressure ½" water column above set pressure.

NOTE: If house line pressure is in "pounds", raise pressure ½ psig above set pressure.

L. Turn the MSA regulator adjusting screw counterclockwise approximately 8 turns. Observe Manometer/gauge. House line pressure should not decrease.

M. Close valve "B" slowly. Observe manometer/gauge. House line pressure should not decrease.

N. Close valve "C".

O. Change meter.

6.3 BYPASS REMOVAL

A. When the MSA regulator is changed, check the new regulator for proper flow and lock-up pressure.

B. Turn MSA regulator adjusting screw counterclockwise until the spring is completely relaxed, if the regulator was changed.

C. Open valve "B" and allow MSA to purge at the meter outlet swivel, union or purge valve, as applicable.

D. Open valve "C" and allow MSA outlet to purge.

E. Tighten meter outlet swivel, union and other purge points.

F. Soap-test MSA.

G. Verify pilots are still on after completing bypass if possible.