



GIS Oilfield Contractors Safety & Detection Services Group

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MSA Orion Bump Test Procedure

- 1) Turn on the Orion Meter
- 2) Let meter run for at least 15 minutes
- 3) Verify through readings that no gas is present
- 4) Attach regulator to gas cylinder
- 5) Connect one end of tubing to regulator
- 6) Open valve on regulator
- 7) Attach calibration adaptor to Orion meter. No more than 2-3 turns.
***If you connect the hose to the meter before you open the regulator valve or over tighten the adaptor you will probably get a pump failure.**

The reading on the meter will start to ascend and descend. The readings on the Orion meter display should be within the limits stated on the calibration cylinder. This should take approximately 1-2 minutes. The alarms will sound during this process. Do not attempt to silence and/or reset the meter. Once the 4 gases have reached the limits stated on the cylinder record them on the daily bump test report.

- 8) Remove the calibration adaptor from the meter.
- 9) Close the valve on the regulator.

The readings on the meter should be descending and ascending at this time. Once the readings are below the alarm levels you can press “change/reset” to stop the alarms. If the alarms sound again you did not wait long enough to allow the readings to get below the alarm levels. Allow the meter 3-5 minutes to totally clear itself of the calibration gas.

At this point you will need to complete the daily bump test paperwork