



# Department of Facilities POLICY AND PROCEDURE

POLICY NUMBER: 501  
VERSION: 3

## **SUBJECT: MEDICAL GAS SYSTEMS – PREVENTIVE MAINTENANCE**

### **POLICY:**

The Plumbing Shop is responsible for monitoring and maintaining the medical gas systems. The systems will be inspected and serviced on a regular basis, as per Regulatory compliance, manufactures specifications and the Preventative Maintenance Program.

### **PURPOSE:**

To ensure a safe and reliable supply of medical gases throughout the facility.

### **PROCEDURE:**

The system will be inspected and serviced on a regular basis, as per Regulatory compliance, manufactures specifications and the Preventative maintenance Program.

### **ALARM PANELS**

Special instructions – Items A through E shall be tested for low and high pressure. Item F shall be tested for low vacuum.

- A. Oxygen: Low 40 PSIG High 60PSIG
- B. Carbon Dioxide: Low 40 PSIG High 60 PSIG
- C. Nitrous Oxide: Low 40 PSIG High 60 PSIG
- D. Nitrogen: Low 140 PSIG High 195 PSIG
- E. Med Air: Low 60 PSIG High 80 PSIG
- F. Vacuum: 12” HG

### Alarm Signals:

Alarm indicators shall be checked regularly and indicating lamps and buzzers shall be operational.

- Items above, A, B, C and D should alarm at 40PSIG (low) and 60 PSIG (high).
- Item above, E should alarm at 60PSIG (low) and 80 PSIG (high).
- Item above, F should alarm at 12” HG.

All abnormal conditions should be reported to the Facilities Front Office and your Supervisor.

When test buttons are provided with signal panels, activation of the audible and visual signals are performed on a monthly basis.

### **Reserve-In-Use Warning Signal:**

At any time that the system is determined to be in Reserve status, with the primary banks of tanks depleted, the primary bank will be immediately replaced by Facilities personnel. Always check to ensure the “O” rings on the supply line, are in place before connecting to the new tank.

### **TESTING:**

All components of the Medical Gas system is retested and certified annually.

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Audible and visual signals are tested monthly.

**ANNUAL:**

The entire Medical Gas system is to be checked and certified by a qualified outside vendor.

Shutoff valves are checked for external leakage by means of an ultrasonic leak detector. Station outlets are annually checked for leakage and flow.

All alarm panels are to be inspected for proper settings and operation.

The manufacturer's recommendations should be followed in making this examination.

**MONTHLY:**

Each Medical Gas panel alarm is to be checked for proper operation on a monthly basis.

The pressure gauge connected to the lines being monitored at each area alarm panel location, are checked on a monthly basis to ensure proper system pressure.

**MAIN MANIFOLDS**

**DAILY: BEFORE CHANGING ANY TANKS; NOTIFY THE FACILITIES FRONT OFFICE, THE ASC AND URGENT CARE. TELLING THEM THE "RESERVE ALARM" WILL SOUND.**

Daily monitoring of all medical gases is done at their sources of supply.

The pressure gauges on the main lines are checked on a daily basis and tanks are to be replaced as needed or if tank pressures are below the following reading:

- A. Oxygen: 450 PSIG Weekdays or 600 PSIG on Fridays or before a Holiday.
- B. Carbon Dioxide: 200 PSIG
- C. Nitrous Oxide: 200 PSIG
- D. Nitrogen: 350 PSIG

Regulators are to be checked and set to the following pressures:

- A. Oxygen: 52 PSIG
- B. Carbon Dioxide: 52 PSIG
- C. Nitrous Oxide: 54 PSIG
- D. Nitrogen: 170 PSIG
- E. Med Air: 70 PSIG
- F. Vacuum: 15" HG

Any detected leaks or unusually high usage rates are to be reported to the Facilities Office, and your Supervisor. Repairs will be made immediately.

Facilities shall maintain at least 14 extra, full K-tanks of oxygen, in addition to the 14 in use.

Additional tanks can be procured at:

PRAX AIR - 661-948-8508 43923 N. Division St. Lancaster, CA 93534

Approved By: Anthony Corliss (MANAGER I, FACILITIES OPERATIONS AND CRAFTS)	
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Supersedes: