

VALLEYCARE
OLIVE VIEW-UCLA MEDICAL CENTER/HEALTH CENTERS
DEPARTMENT: FACILITIES
POLICY & PROCEDURE

NUMBER: 658
VERSION: 2

SUBJECT/TITLE: MEDICAL GAS SYSTEMS – PREVENTIVE MAINTENANCE

POLICY: The Plumbing Shop is responsible for monitoring and maintaining the medical gas system.

PURPOSE:

DEPARTMENTS: FACILITIES

DEFINITIONS:

PROCEDURE: Special instructions – Items A through C shall be tested for low pressure. Item D shall be tested for low vacuum.

- A. Oxygen 55 PSIG
 - B. Medical Air 55 PSIG
 - C. Nitrous Oxide 55 PSIG
 - D. Vacuum 15” HG
1. Alarm indicators at the BEAS Room shall be continuously supervised. Indicating lamps and buzzers shall be operational.
 2. Items A, B, and C should alarm at 45PSIG (low) and 65 PSIG (high).
 3. Item D should alarm at 15” hg.
 4. All abnormal conditions should be reported to the Plumbing Shop supervisor.

Alarm Signals – 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 - All components of this warning signal system are retested annually. Audible and visual signals are tested monthly.

The pressure gauges on the main lines are checked on a daily basis.

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

The retesting of audible and visual alarm indications are performed monthly.

Hospital-wide inspection of the medical gas systems is performed periodically.

Daily monitoring of the Oxygen and Nitrous Oxide Systems is done at their sources of supply located east of the hospital, next to the cooling towers.

The oxygen supply consists of two liquid oxygen tanks, one large tank (main supply), one smaller tank (reserve supply) which manifold together, go through regulators and supply the hospital at 55 P.S.I. line pressure. When the tank supply goes below 35 inches of liquid, an alarm sounds off in the BEAS Room, they notify the Plumbing Shop, who notifies Supply Chain Operations (364-4014) to call the vendor and have the liquid oxygen tanks filled. Logs are kept to insure a constant supply at the hospital and to monitor any problems with the systems, such as leaks.

The Nitrous Oxide System consists of two banks supplied through a N2O Panel. Normal line pressure is 55 P.S.I. When one bank goes empty, the N2O panel automatically switches to the other bank. The BEAS Room has an alarm which indicates a bank being empty. When one bank goes empty, the Plumbing Shops replaces empty tanks with full ones. The Nitrous Oxide System is also monitored by alarm panel located in the emergency room and in surgery. Alarms sound at 10 P.S.I Above or below normal line pressure of 55 P.S.I. Logs are kept to insure a constant supply at all times and to help detect leaks in the system.

References:	
Approved by: Robert Ross (Director, Facilities)	Date: 09/25/2013
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