

**MEDICAL GAS INSPECTION
MAINTENANCE**

Effective date: 04/98
Revision date : 08/12
Review date :

Policy:

Ensure that the medical gas system is inspected and tested according to prevailing standards.

Prevailing Codes and Standards:

TJC EC 02.05.09, NFPA 99 (2005)

PM Cross Reference:

Task 8, Craft 9, Equip. #...Med Gas System Inspection
Task 20, Craft 20, Equip. #...Med Gas System Inspection
Task 36, Craft 20, Equip. #...Med Gas System Inspection
Task 34, Craft 20, Equip. #...N2 and N20
Task 35, Craft 20, Equip. #...Med Air

Procedure:

INSPECTION AND TESTING

Automatic Changeover:

- Monthly - Make sure signal has not malfunctioned (using test button) - do not test by valving off main.
- Annually - Test operation of change over and reserve in use signal by valving off primary line and ensure reserve system operates properly.

Test system alarms.

Bulk Systems (Oxygen, Nitrogen, Nitrous Oxide):

- Daily - Check supply to ensure reorder is made at predetermined contents level. (N2, N20 - by Plant Store personnel)
Check gauges, any variation should be reported.
Check main line pressure gauge.
- Monthly - Check system alarm (if test button is available)

Medical Air:

- Quarterly - Check air intake of medical air pumps to ensure no foul air (fumes) is present.
- Daily - Check system for proper operation. Check main line pressure gauge. Check system gauges.
- Monthly - Test equipment alarm signals using test buttons.
- Annually - Check pressure gauges and high water level

sensor.
Check dew point monitor.
Check compressor for worn parts and absorber bed for saturation in accordance with manufacturer's recommendations.
Test system alarms annually.

Vacuum:

- Daily - Inspect vacuum system for proper operation.
Check main line vacuum gauge.
Check system gauges.
- Monthly - Test equipment alarm signals using test buttons.
- Annually - Check vacuum pump and motor for worn parts.
Check flexible connectors for cracking or splitting.

Medical Gas Outlets:

- Annually - Test for leakage and flow.

Zone Valves:

- Annually - Test for external leakage.

Alarm Panels:

See Medical Gas Alarm

Shutoff Valves:

Test periodically using a test solution.

Reserve In Use:

Test annually.

Reserve Supply Low:

Test annually.