

ANESTHESIA VACUUM (Waste Anesthetic Gas Disposal)
MAINTENANCE

Effective date: 02/80
Revision date: 04/10
Review date: 08/12

Policy:

Ensure anesthesia vacuum systems are installed, operated, maintained and inspected according to prevailing codes and standards.

Prevailing Codes and Standards:

TJC EC 02.05.01(9) and 02.05.09, NFPA 99

PM Cross Reference:

A EVAC K, Task 3/a and 8/q craft 20, Task 3/a craft 4.

Location:

Anesthesia Vacuum (Waste Anesthetic Gas Disposal) is a duplex system located on the penthouse floor of K wing which serves Burn and Trauma, Orthopedic and K-wing Surgery Suites.

Procedure:

I. INSPECTIONS

Daily Inspections shall be made during each shift and recorded in the inspection log.

II. MAINTENANCE

A. Preventive Maintenance

1. Preventive maintenance task will be performed as scheduled by the computerized PM system.
2. PM records will be documented in the PM system computer. After posting, task sheets will be kept in the assigned supervisors permanent PM file.

B. Maintenance Repairs

1. If an emergency, notify Physical Plant and Hospital Administration.
2. Normal repair outages shall be scheduled according to the Utilities Interruption Policy
3. Do not disable the system until supplies, equipment and personnel are available to complete the action.
4. Restore system operation as soon as possible.
5. Documentation of completed work will be available in the work order system and in the completed work order files.

III. EMERGENCY PROCEDURES

- A. Contact supervisor on all emergency conditions. If unable to make contact, inform the next higher level supervisor.

- B. Verify that suction pressure is not adequate. Gauge showing less than 15 inches of vacuum is indication of legitimate problem.
- C. Look for any obvious reasons for failure (smoke, leak, power failure etc.). Do not restart unit if more damage will result.
- D. Attempt to restore service
 - 1. Automatic operation
 - a) Verify operation switches in automatic position.
 - b) If pumps fail to start, press panel reset switch.
 - c) Go to (2) if pumps fail to start after pressing the reset switch
 - d) When pumps start, monitor operation for 15 minutes to ensure the system is working properly.
 - e) Monitor pumps operation hourly.
 - f) Document action in maintenance log.
 - 2. Manual operation
 - a) Turn operation switch to hand/manual position.
 - b) If pumps fail to start, press panel reset switch.
 - c) Go to (3) if both pumps fail to start after pressing reset switch.
 - d) When pump starts, monitor operation for 30 minutes to ensure system is working properly.
 - e) Restore pumps to automatic operation.
 - f) Monitor pumps operation hourly.
 - g) Document action in maintenance log.
 - 3. Pumps Fail To Operate In Hand or Manual
 - a) Check Motor Control Center PE and perform the following:
 - (1) Locate anesthesia vacuum pump switches on MCC-PE.
 - (2) Ensure switches are in the "ON" position. Turn switches to "ON" if they are not tagged "OFF" with a warning sign.
 - (3) If switches were found "OFF", repeat above steps.
 - b) If service cannot be restored, valve OFF water ring vacuum & valve ON BECKER vacuum pumps. Contact supervisor immediately and request assistance.
 - c) Document actions taken in maintenance log.