

03.107 HSS Emergency O2 Bottle Swapout

(03. HSS Parameters)

NOTE

Starting MD16, when this procedure calls for you to request authorization from MCC for an action, you may proceed on your own go.

OBJECTIVE:

To replace the Emergency O2 bottle on the Oxygen Generation System.

EQUIPMENT:

Emergency O2 bottle (will be gathered during the procedure)

Sticky notes

Pen

Flashlight

Shop vacuum

PPE safety glasses

PPE Kobalt work gloves

PPE static wrist tether

REFERENCE

Serial Number Tracking Spreadsheet

NOTE

In the event of an Oxygen Generation System failure, liquid O2 bottles are onboard and can be used on an emergency basis. If the liquid O2 bottle in the emergency system has been emptied, the bottle must be replaced.

- L1D 1. DEACTIVATE EMERGENCY O2 GENERATION SYSTEM (IF ACTIVATED)
- 1.1 Don PPE gloves.
 - 1.2 Don PPE safety glasses.
 - 1.3 Don static wrist tether and attach to any unpainted metallic surface near the Emergency Oxygen Generation System.

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Figure 1: Emergency O2 Generation System

- 1.4 Flip power switch of Emergency O2 Generation System to “OFF” if not already off.
(see Figure 1).
 - 1.4.1 Confirm Emergency O2 Generation System is off by verifying red light is no longer illuminated and by verifying no audible fan sound.
- 1.5 Open Emergency O2 Generation System by unlocking both tabs on right side.

L1D 2. REMOVE EMPTY O2 BOTTLE

- 2.1 Inspect Emergency O2 Generation System with flashlight for debris and clean as necessary with shop vacuum.

NOTE

Emergency O2 bottle is tightly secured within assembly. Removal will require higher than expected force. Use a twisting motion to reduce static friction.

- 2.2 Remove O2 bottle from Emergency O2 Generation System (see Figure 2).

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Figure 2: Emergency O2 System Inside

- 2.3 In Serial Number Tracking Spreadsheet, record used O2 bottle S/N. Label “used” with sticky note.
- 2.4 Detach static wrist tether from metallic surface.
- 2.5 Stow used O2 bottle in ALC L01.

- AL 3. RETRIEVE FULL O2 BOTTLE
- 3.1 Remove full O2 bottle from below the Air Lock Vent.
 - 3.2 Inspect full O2 bottle with flashlight for damage.

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4. INSERT FULL O2 BOTTLE

- 4.1 Attach static wrist tether to any unpainted surface near emergency O2 generation system.
- 4.2 In Serial Number Tracker Spreadsheet, record full O2 bottle S/N for Emergency O2 Generation System.
- 4.3 Insert full O2 bottle into Emergency O2 Generation System.

5. ACTIVATE EMERGENCY O2 SYSTEM

- 5.1 Close Emergency O2 Generation System by locking both tabs on right side.
- 5.2 Flip power switch of Emergency O2 Generation System to “ON” (see Figure 1).
 - 5.2.1 Confirm Emergency O2 Generation System is on with red blinking light activation (see Figure 1) and with audible fan activation.
- 5.3 After verifying the Emergency O2 system is functional, flip power switch of Emergency O2 Generation system to “OFF”
 - 5.3.1 Verify Emergency O2 Generation System is off by verifying the red blinking light is off.
- 5.4 Detach and doff static wrist tether, PPE Safety Gloves and Safety Glasses
- 5.5 Stow all tools.