

## **6.3B Inspection/Functional Test Procedures - Monthly**

1. Remove SCBA and facepiece from apparatus mounting bracket and rest frame on clean dry surface with cylinder on top and straps spread out.
2. Check the cleanliness and condition of entire SCBA unit.
  - a. No deformities or broken pieces.
  - b. No cuts, rips or frayed straps. Ensure straps fully extended.
3. Disinfect and clean facepiece if necessary, check the following:
  - a. Head net and straps for fraying and elasticity.
  - b. Buckle thumb levers are working and remain tight.
  - c. Rubber seal and nose cup for deformities cracks or tears.
  - d. Inhalation valves in nose cup, both present and lying flat.
  - e. Voice emitter ducts are present and not deteriorated.
  - f. Cracks, scratches, dirt and debris preventing a good seal.
  - g. Voice emitter ducts are sealed on outside of lens.
4. Check facepiece seal – With purge valve at 12 o'clock to facepiece, align together and ¼ turn clockwise. With facepiece attached to regulator, hold regulator in left hand, close eyes and blow into facepiece to clear it of any dust particles. Place facepiece against face and inhale. During this action the facepiece should close in and hold fast to your face, indicating the regulators diaphragm is functioning. If air leaks into the facepiece, reposition and try again. During the initial inhalation, a click should be heard at the regulator assembly. This click indicates the functioning and ON position of the manual shut off switch. (If the SCBA were supplied with air, it would then flow into the facepiece). Before removing the facepiece, pause breathing and press the manual shut off switch on the regulator assembly.
5. Remove cylinder for inspection:
  - a. Be sure SCBA is purged before disconnecting high-pressure hose.
  - b. Uncouple high-pressure coupling, check O-ring.
  - c. Unsnap and lift cylinder band toggle, push down cylinder retaining latch, push cylinder towards the top of the frame, and then pull cylinder towards you once cleared of obstructions.
  - d. Check cylinder gauge for full reading, refill/replace as needed.
  - e. Inspect for dents, cracks, gouges, or any damage.
  - f. Look for charred or missing decals, melted rubber, bulging, peeling, and distorted fiber.
  - g. Inspect cylinder valve and threads for damage.
  - h. If no defects are found, replace cylinder onto back frame.
  - i. Inspect spare cylinders in a similar fashion.

6. Check condition of Universal Air Connection (UAC) by removing dust cover and visually inspecting for deformity or damage. Damage to or dirt in the connection may cause failure of use with Fast Pak. Assure that the dust cover is securely replaced after inspecting the UAC. If the UAC shows any sign of damage or the dust cover is missing, place SCBA out-of-service.
7. Reconnect high-pressure coupling to cylinder valve, coupling should be hand tight.
8. Check pressure reducer assembly and hose for damage or fraying.
9. Check low-pressure hose for damage and be sure it swivels freely at purge valve.
10. Check quick connect disconnect is engaged properly by tugging on the coupling and the HUD plug is properly aligned and fitted into mating socket.
11. Check regulator assembly:
  - a. Check HUD visor and manual shut off boot is intact, not damaged
  - b. Inspect regulator cover for signs of cracks or damage.
  - c. Remove facepiece from regulator to check gasket is intact and not damaged.
  - d. Check regulator locking latch for presence of both screws, and latch slides smoothly.
  - e. Check manual shut-off switch is depressed and purge valve tip is in 12 o'clock position.
  - f. Recheck regulator insertion to facepiece for smooth operation.
12. Locate Pak-Alert device and test manual alarm button. The manual alarm shall begin sounding a loud continuous 3-tone alarm. Reset the manual alarm by pressing twice on the reset button located on the side of the control console. Unit will sound three chirps and the green light will flash. Turn the unit off by pressing the reset button twice again. Unit will sound a two-tone chirp and a green light will go out.
13. With SCBA unit in the ready position, turn on cylinder valve fully. The Pak-Alert shall sound 3 quick chirps and the light on the control console shall begin flashing green approximately once per second. The 3 chirps will sound at approximately the same time the vibralert in the mask-mounted regulator actuates briefly. Also at this time, hold regulator in hand to visually check that all five lights on the HUD have illuminated for 20 seconds. After 20 seconds, only 2 green lights shall remain lit, indicating a full cylinder.
14. Check PASS operation by leaving the SCBA unit motionless for 20 seconds. After the pre-alarm signal has activated move or turn the SCBA unit to reset the PASS. Continue with inspection noting that unit must be moved every 30 seconds or less to prevent sounding of the PASS alarm.
15. Check for PASS full alarm by leaving the SCBA unit motionless until alarm has been reached.
16. Reset alarm with use of button on Pak-Alert device, listen for chirps.

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17. Please facepiece against face, inhale to start the flow of air into the facepiece. Breathe normally to test the function of the regulator inhalation/exhalation valve.
18. Slowly remove the facepiece from your face and listen for air flowing freely. Stop the flow of air by pressing the manual shut-off.
19. Check the regulator purge valve by rotating the red knob counter-clockwise. Place knob back at 12 o'clock position to stop airflow.
20. After completing all SCBA checks involving airflow, turn off cylinder valve. While observing the lights on the HUD, slowly open the purge valve to release the remaining air. The HUD indicator lights should change indicating your level of air remaining.
  - a. Full – 2 green lights
  - b.  $\frac{3}{4}$  - one green light
  - c.  $\frac{1}{2}$  - one flashing yellow light.
  - d.  $\frac{1}{4}$  - one flashing red light.
  - e. When cylinder is empty return purge valve to closed position.
  - f. Note activation of vibralert at 1/4 remaining air.
21. Turn off PASS by using button on Pak-Alert Device.
22. Disinfect facepiece, return SCBA unit to appropriate position.

\*All issues shall be reported to an officer.

\*Officers shall complete appropriate repair forms and remove SCBA from service.

\*Inspections shall be recorded on the appropriate department forms.

### **Reference:**

#### 6.3 Respiratory Protection