

SCOTTS VALLEY FIRE PROTECTION DISTRICT



STANDARD OPERATING PROCEDURES	ARTICLE: II	SOP: 2200
	SECTION: 2200 APPARATUS AND EQUIPMENT	
	SUBJECT: SCBA – CARE AND MAINTENANCE	
	DATE APPROVED: 2/3/2021	
APPROVED:		

Purpose: To assure that all self-contained breathing apparatus (SCBA) and air cylinders are in proper working condition.

Scope: All SCBA, as well as spare air cylinders, will be inspected after each use and at least once weekly (during Monday apparatus checks).

Procedure:

1. The following items will be inspected:
 - Cylinders, gauges, and hoses
 - Breathing regulator
 - Spare mask
 - Cleanliness and sanitation
 - Harnesses and straps
 - Hydrostatic date
2. Any defects or problems found with any breathing apparatus or air cylinder that cannot immediately be remedied will be brought to the attention of the company officer.
3. All repairs made to the breathing apparatus will be made by qualified, trained personnel.

Daily Check Out

- Check that the breathing regulator purge valve is closed (fully clockwise).
- Fully depress the center of the air saver/donning switch to insure it is closed.
- Check cylinder pressure and replace with a “full” one if needed.
- Visually inspect the complete respirator for damage.
- Insure all straps are extended and correctly stowed so SCBA can be easily removed and donned.

Weekly Check Out- “NXG2” & “X3 PRO”

1. Visually inspect the complete respirator for worn or aging rubber parts, for worn or frayed harness webbing and for other damaged components.

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2. Check the latest cylinder hydrostatic test date.
3. Visually inspect cylinder and valve assembly for physical damage such as dents or gouges in metal or in composite wrapping.
4. Check cylinder pressure gauge for full.
 - a. If cylinder pressure is less than “full”, replace with a fully charge one.
5. Check that the breathing regulator purge valve is closed (fully clockwise).
6. Fully depress the center of the air saver/donning switch on the top of the regulator and release.
7. Turn cylinder valve completely.
 - a. Verify that both the VIBRALERT sounds briefly and all the lights in the HEADS-UP DISPLAY are working.
8. Check level on the pressure gauge.
 - a. Should read in the green zone.
9. Don the facepiece or hold the facepiece to the face and inhale sharply.
 - a. The breathing regulator should automatically start the flow of air.
10. Fully depress the center of the air saver/donning switch and remove mask from face.
11. Rotate the purge valve knob a ½ turn counterclockwise.
 - a. Air shall freely flow from the regulator.
 - b. Close the purge valve knob.
12. Push in and close cylinder valve.
13. Test low-pressure alarm devices.
 - a. Open purge valve slightly to vent air from system.
 - b. As the air vents from the system, the pressure gauge needle will swing from “full” towards “empty”.
 - c. Observe the lights in the HEADS-UP DISPLAY for the proper lights in descending order.
 - d. Close the purge valve when the gauge needle reaches ¼ mark. The VIBRALERT should activate and the red light on the HEADS-UP DISPLAY will flash rapidly.
14. Open and close the purge valve again to vent the remaining air out of the system.
15. Test the SCOTT PASS DEVICE.
 - a. The PASS was automatically activated by bottle pressure and should be in the “automatic mode”. (Green lights flashing once a second)
 - b. Remain motionless for 20 seconds to ensure the “pre-alarm” occurs at 20 seconds.
16. Turn off the PASS by pressing the reset button twice.

Care and Maintenance After Each Use

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Cleaning the SCBA Harness

- Wash the apparatus by damp-sponging the exterior or using soft running water. **EXTRA CARE NEEDS TO BE TAKEN WITH WATER AND THE ELECTRONICS. DO NOT SUBMERGE THE SCBA IN WATER.** The facepiece-mounted positive pressure regulator, control module, and Sensor modules are prone to water damage.
- The use of a brush and mild detergent may be necessary.
- Rinse and dry thoroughly.

Cleaning and disinfecting the facepiece

- With the regulator removed, carefully wash the facepiece with SCOTT Multi-Wash and thoroughly rinse in clean water. If the facepiece is heavily soiled, it may be necessary to first wash the facepiece in warm water.
- Disinfect the facepiece by spraying 3 full pumps of Scott Multi-Wash On the face side of the mask, wetting the entire mask. **ALLOW FOR 10 MINUTES OF CONTACT TIME TO DISINFECT PRIOR TO RINSING.**

Cleaning and disinfecting the mask mounted regulator

- Remove the breathing regulator from the facepiece by rotating the regulator $\frac{1}{4}$ turn clockwise.
- Remove any obvious dirt from the external surfaces of the regulator with a sponge or soft cloth.
- Inspect the inside of the regulator through opening. If excessive dirt or soil is present, forward regulator to a trained personnel for thorough cleaning.
- Depress the donning/air saver switch, close the purge knob by turning fully clockwise and spray a minimum of 6 full pumps of SCOTT Multi-wash into the regulator opening and around the area opening. Swirl to completely cover internal components. Turn regulator opening face down and shake excess liquid out. **ALLOW FOR 10 MINUTES OF CONTACT TIME TO DISINFECT PRIOR TO RINSING.**
- Rinse regulator with drinking water using a spray bottle or softly running water.
- Shake excess water out of regulator, completely air dry the regulator before use.
- **TO SPEED DRYING OF THE REGULATOR, OPEN AND CLOSE THE PURGE VALUE. DO NOT USE SHOP AIR, WHICH CONTAIN LUBRICANTS AND MOISTURE.**
- Perform regulator check.