

Egg Harbor Fire Department and First Responders Standard Operating Guideline

Subject: Cascade Operation

SOG 312

Purpose: This guideline was created to ensure firefighter safety and proper operation of the cascade system.

Scope: This procedure applies to all members of the Egg Harbor Fire Department.

PROCEDURE:

DO NOT OPEN ALL CASCADE BOTTLES AT ONCE WHEN USING CASCADE.

- 1.) Look at the bottle you are getting ready to fill. Set regulator on cascade to correct pressure setting, 4500 psi for high pressure or 2216 psi for low pressure. Also inspect each pack for visible physical damage.
- 2.) Inspect each air pack and bottle for visible physical damage. If damage is found in your inspection place the damaged equipment out of service.
- 3.) Check the hydrostatic test date, five years on all cylinders, if the cylinder is past beyond the five year test date, tag the cylinder out of service and place it in the appropriate out of service area.
- 4.) Start with the first cascade bottle marked 1 on the bottle. Stay in sequence when using cascade. Open #1 bottle.
- 5.) Attach the cascade fill hose onto SCBA bottle to fill. Hand tight only.
- 6.) Now open cascade fill hose knob slowly and monitor the gauge and the bottle temp. If the bottle gets extremely hot, then you are filling too fast, simply close the fill knob slightly on the next bottle.

- 7.) If the pressure equalizes from the first cascade bottle, close bottle and open cascade bottle # 2. If this bottle still does not fill SCBA bottles, close and open cascade bottle #3. Keep using the cascade in this manner working from bottle #1 to bottle #4. Starting with Bottle #1 every time you fill a new bottle. This process will allow us to use the full capacity of the cascade system.
- 8.) After SCBA bottles are filled, close fill hose knob and SCBA cylinder knob, and bleed off pressure before releasing fill hose from cylinder.
- 9.) After final bottle is filled, ensure that all cascade bottles are closed and release pressure from fill hoses before transport.