

**FEDERAL FIRE DEPARTMENT HAWAII
NAVY REGION HAWAII**

MINIMUM SPECIFICATIONS FOR SELF CONTAINED BREATHING APPARATUS FOR FIRE
FIGHTING AND RESPONSES TO CBRNE INCIDENTS

GENERAL DESCRIPTION:

SCOTT BRAND Personal Protective Equipment for the Self-Contained Breathing Apparatus (SCBA). SCOTT BRAND IS REQUIRED. "EQUIVALENT" BRAND IS NOT AUTHORIZED.

All materials and construction will meet or exceed NFPA Standard 1981 2013 Edition *Standard on Open-Circuit Self-Contained Breathing Apparatus* (SCBA) and OSHA 1910.134 *Respiratory Protection* for firefighting.

This specification details design and materials criteria to afford respiratory protection against Immediately Dangerous to Life and Health (IDLH) during firefighting and Chemical, Biological, Radioactive, Nuclear, Explosive (CBRNE) responses.

The items being offered shall be SCOTT brand, new and unused (no sample, demonstration, display or refurbished items). Each item to be provided shall be free from defects in materials and workmanship. The finished items shall be inspected by the Contractor to meet all requirements as stated herein prior to delivery.

AV-3000 HT FACEPIECE



Must meet or exceed 2013 Edition of the NFPA 1981 Standard for high heat, flame, and radiant heat. Provide enhanced durability to wearer by ensuring the facepiece stays under positive pressure when exposed to the heat and flame loads measured under NFPA 2013.

Maximum voice intelligibility – using two voicemitters to provide a sphere of intelligibility to those around the respirator wearer, not just the individuals directly in front of the wearer. Right side mounting for SCOTT Safety EPIC 3 voice amplifiers with robust communications bracket attachment.

FLEECE BAG



SCBA facepiece fleece bag provides protection against scratches to the lens, dust, and debris when stored in the between responses.

Mask Mounted Regulator



The removable pressure-demand breathing regulator mounts directly to the facepiece and is equipped with an Air Saver/Donning Switch and a red Purge Knob. The VIBRALERT alarm serves two functions: as an end of service time indicator and to alert the user of a malfunction in the dual path pressure reducer. In normal operation, the VIBRALERT alarm vibrates the breathing regulator and facepiece to warn the user by both sound and feel that approximately 33% of full cylinder pressure remains. In

addition, if the primary air path of the pressure reducer becomes blocked or should fail closed, the secondary air path will automatically begin supplying air to the breathing regulator and the VIBRALERT alarm will be actuated to warn the user of the malfunction.

The HEADS-UP DISPLAY is an independent end of service time indicator alarm attached to the facepiece mounted regulator and is standard on respirators required to have two independent redundant alarms. The

HEADS-UP DISPLAY provides a visual monitor of the air supply with four lights that appear just below the facepiece field of vision. A separate low battery light warns the user that the batteries must be replaced. The HEADS-UP DISPLAY detects cylinder pressure directly and is totally independent of the VIBRALERT.

RFID WRITER



The system can be personally customized and programmable using RFID identification cards to link a firefighter to a specific Air-Pak SCBA. To enter their personal information, each firefighter simply swipes their pre-programmed ID card on the back of the SEMS II console. This information is transmitted to the base command computer while SEMS II is activated. Each card has three programmable fields for firefighter identification that are programmed via an RFID tag writer and proprietary software.

Pak Tracker



To locate a fallen firefighter Scott Safety Pak Tracker firefighter locator systems works in conjunction with Pak Alert. With time-proven technology, the Pak Tracker will notify remote users of a man-down situation via the HHR (hand-held receiver). The HHR is also a directional receiver that assists with directing rescue teams to the down personnel. The Pak Tracker locator utilizes 2.4 GhZ radio transmissions to assist with indicating the best path to the down personnel.

THIRD PARTY TESTING AND LISTING PROGRAM

All components used in the construction of these garments shall be tested for compliance to NFPA Standard 1981 & 1982 2013 by Underwriters Laboratories (UL) and NIOSH. Underwriters Laboratories shall certify and list compliance to that standard. Such certification shall be denoted by the Underwriters Laboratories certification label.

LABELS

Appropriate warning label(s) shall be permanently affixed to each ensemble. Additionally, the label(s) shall include the following information:

Compliance to NFPA Standard 1981 & 1982, 2013 edition
Underwriters Laboratories classified mark

WARRANTY

The manufacturer shall warrant AV-3000 HT Facepiece, Fleece Bag, EPIC 3 Voice Amplifier, RFID Writer Kit to be free from defects in materials and workmanship for their serviceable life when properly used and cared for:

AV-3000 HT Facepiece

- 10 yrs Manufacturer

Epic 3 Voice Amps

- 5 yrs Electronics

EXCEPTIONS TO SPECIFICATIONS

Any and all exceptions to the above specifications must be clearly stated for each heading. Use additional pages for exceptions, if necessary.