

SPECIFICATIONS FOR SELF CONTAINED BREATHING APPARATUS (March 12th, 2024)

The intent of these specifications is to define/describe to a general description, the breakdown of the Self-Contained Breathing Apparatus (SCBA) assembly and associated options/extras.

General Requirements

All components must meet or exceed current National Fire Protection Association (NFPA)-1981 standards. The SCBA shall also be National Institute for Occupational Safety and Health/Mine Safety and Health Administration NIOSH/MSHA certified including the NIOSH Chemical, Biological, Radiological, and Nuclear (CBRN) standard.

53 Self Contained Breathing Apparatus (SCBA) assemblies (breakdown to follow)

53 assemblies: Each SCBA (Air-Pack) assembly shall be National Fire Protection Association (NFPA) 1981 (2019 edition) compliant and be National Institute for NIOSH/MSHA certified including the NIOSH CBRN standard. Each pack to include a harness and back frame with dual pull shoulder straps and one chest strap, two 4500psi 30 minute carbon fiber air cylinders (1 main/1 spare) with quick connect/disconnect, valves for storing breathing air under pressure, a facemask mounted positive pressure regulator with an inline quick disconnect/air-savor switch/low pressure alarm/purge valve, a Rapid Intervention Crew (RIC) universal air connection, and a shoulder strap mounted remote gauge indicating cylinder pressure.

20 Spare SCBA cylinders

20 Spare 4500 psi 30-minute carbon fiber air SCBA cylinders with quick connect/disconnect and valves for storing breathing air under pressure.

80 SCBA Face Pieces

62 NFPA-1981/ANSI compliant full facemask assemblies to include head harness, Heads Up Display (HUD), Bluetooth Communication system (most advanced option is preferred), and a mask bag. The communications system shall be compatible with APX6000xe Model II (BN) and meet or exceed the Speech Transmission Index (STI) requirements for NFPA 1981 (2019 edition).

18 NFPA-1981/ANSI compliant full facemask assemblies to include head harness, Heads Up Display (HUD), and a mask bag. The facemask shall be compatible with the above Bluetooth Communication system and meet or exceed the Speech Transmission Index (STI) requirements for NFPA 1981 (2019 edition).

5 Rapid Intervention Team (RIT) cylinder/kits

5 RIT kits each to include a carrying device, pneumatics, and face piece. The carrying device should have storage pouches, reflective stripes, external rings, and a carrying strap. The pneumatics must include a 4500psi 60-minute carbon fiber air cylinders with valve for storing breathing air under pressure, spare second stage regulator, external pressure gauge, universal low-pressure hose with quick connect fittings, and rapid fill Rapid Intervention Crew (RIC) universal air connector. The face piece will be NFPA-1981(2019 edition)/ANSI compliant full RIT style (without a nose cup) facemask assembly.

Training

Training must be provided, at the manufacturer's own expense, by a factory-trained instructor for such time as the department needs for complete in-service instruction in the operation and maintenance of the equipment. In-service training will be at a minimum set over 3 shift days. Maintenance training will be separate from the In-service training and provided to all personnel selected by the department.

Warranty

Units shall be covered by a warranty providing protection against defects in materials and workmanship. This warranty shall be for a period of a minimum of 10 years on the SCBA. The Electronics components and systems shall be warrantied for a period of a minimum of 3 years. A full copy of the warranty will be provided in writing with the sealed bid.