SPECIFICATION PACKET

FOR

JESSAMINE COUNTY
CSEPP EQUIPMENT

2018

JESSAMINE COUNTY FISCAL COURT

NOTICE OF BID

The Jessamine County Fiscal Court will be accepting sealed bids for 14-Scott Safety-Airpak-X3, 28-Scott Safety 60 min. Air Cylinder & Valve, 14-Scott Safety AV-3000 HT Face Piece, and 14-Scott Safety EPIC 3 Voice Amp. Complete specifications are available at the Office of Jessamine County Judge/executive, David K. West, 101 North Main Street, Nicholasville, KY 40356. Sealed bids will be accepted until Monday, September 17, 2018 until 12:00 noon at the Office of Jessamine County Judge/Executive, David K. West, at 101 North Main Street, Nicholasville, KY 40356. The Fiscal Court reserves the right to reject or refuse any or all bids.

Jessamine County Fiscal Court

Run: September 6, 2018
At a rate per linear inch, single column, solid nine-point measure

Method of Award

Best Value – Ranking Approach
Jessamine County Fiscal Court intends to award a Contract to the Vendor, whose offer, conforming to the Solicitation, is the most advantageous on the basis of "best value" for all products, services, and requirements contained herein.

An evaluation committee, or a designated individual, will evaluate the information provided by the Vendor in response to the established measurable criteria contained in the Solicitation.

Measurable Criteria:

Price	**95 Points**
Delivery	**5 Points**
TOTAL POINTS	**100 Points**

Each Vendor is responsible for submitting all relevant, factual and correct information with their offer to enable the evaluator(s) to afford each Vendor the maximum score based on the available data submitted by the Vendor. VENDOR SHALL ENTER UNIT PRICE AND TOTAL PRICE ON THE BID SHEET. If adequate space is not available, the Vendor must attach additional information that clearly cross-references the appropriate location in the solicitation (i.e. page number, paragraph, subject, etc.).

Vendors responding with the minimum Best Value requirements in this Solicitation shall not be credited with Best Value points. Vendors responding with greater than the minimum requirements shall receive Best Value points. Failure to provide adequate information will impact the evaluated points awarded to the Vendor.

Price (95 points)

The bidder with the lowest Price receives the maximum score. The bidder with the next lowest Price receives points by dividing the lowest Price by the next lowest price and multiplying that percentage by the available points. For example, 95 points is allocated to the lowest Price criteria for this procurement, Bidder "A" bids $3.00 as the lowest bidder and receives the maximum 95 points ($3.00 / $3.00 = 1.00 x 95 = 95). Assume Bidder "B" is the next lowest bidder at $4.00, then "B" receives 71.3 points ($3.00 / $4.00) = .75 x 95 = 71.25).

Delivery (5 points)
The bidder with the best delivery time receives the maximum score. The bidder with the next best delivery time receives points by dividing the best delivery by the next best delivery and multiplying that percentage by the available points. For example, 5 points is allocated to the best delivery time for this procurement, Bidder "A" bids 10 days as the best delivery time and receives the maximum 5 points (10 / 10 = 1.00 x 5 = 5). Assume Bidder "B" bids the next best delivery time 15 days, then "B" receives 3.33 points (10 / 15) = ..67 x 5 = 3.33).

Vendor shall enter best delivery time in working days: _____DAYS ARO

The Vendor agrees that when delivery is not made within the contracted due date, one percent (1%) per day shall be deducted from the Vendor's invoice for each day the Vendor fails to meet the contracted delivery date.

Best Value scoring is subject to **Reciprocal preference for Kentucky resident bidders and Preferences for a Qualified Bidder or the Department of Corrections, Division of Prison Industries (KAR 200 5:410). *Vendors not claiming resident bidder or qualified bidder status need not submit the corresponding affidavit.**

Reciprocal Preference for Kentucky Resident Bidders

KRS 45A.490 Definitions for KRS 45A.490 to 45A.494.
As used in KRS 45A.490 to 45A.494:
(1) "Contract" means any agreement of a public agency, including grants and orders, for the purchase or disposal of supplies, services, construction, or any other item; and
(2) "Public agency" has the same meaning as in KRS 61.805.

KRS 45A.492 Legislative declarations.
The General Assembly declares:
(1) A public purpose of the Commonwealth is served by providing preference to Kentucky residents in contracts by public agencies; and
(2) Providing preference to Kentucky residents equalizes the competition with other states that provide preference to their residents.

KRS 45A.494 Reciprocal preference to be given by public agencies to resident bidders -- List of states -- Administrative regulations.
(1) Prior to a contract being awarded to the lowest responsible and responsive bidder on a contract by a public agency, a resident bidder of the Commonwealth shall be given a preference against a nonresident bidder registered in any state that gives or requires a preference to bidders from that state. The preference shall be equal to the preference given or required by the state of the nonresident bidder.
(2) A resident bidder is an individual, partnership, association, corporation, or other business entity that, on the date the contract is first advertised or announced as available for bidding:
(a) Is authorized to transact business in the Commonwealth; and
(b) Has for one (1) year prior to and through the date of the advertisement, filed Kentucky corporate income taxes, made payments to the Kentucky unemployment insurance fund established in KRS 341.490, and maintained a Kentucky workers' compensation policy in effect.
(3) A nonresident bidder is an individual, partnership, association, corporation, or other business entity that does not meet the requirements of subsection (2) of this section.
(4) If a procurement determination results in a tie between a resident bidder and a nonresident bidder, preference shall be given to the resident bidder.
(5) This section shall apply to all contracts funded or controlled in whole or in part by a public agency.
(6) The Finance and Administration Cabinet shall maintain a list of states that give to or require a preference for their own resident bidders, including details of the preference given to such bidders, to be used by public agencies in determining resident bidder preferences. The cabinet shall also promulgate administrative regulations in accordance with KRS Chapter 13A establishing the procedure by which the preferences required by this section shall be given.
(7) The preference for resident bidders shall not be given if the preference conflicts with federal law.
(8) Any public agency soliciting or advertising for bids for contracts shall make KRS 45A.490 to 45A.494 part of the solicitation or advertisement for bids.

The reciprocal preference as described in KRS 45A.490-494 above shall be applied in accordance with 200 KAR 5:400.

REQUIRED AFFIDAVIT FOR BIDDERS, OFFERORS AND CONTRACTORS CLAIMING RESIDENT BIDDER STATUS

FOR BIDS AND CONTRACTS IN GENERAL:
The bidder or offeror hereby swears and affirms under penalty of perjury that, in accordance with KRS 45A.494(2), the entity bidding is an individual, partnership, association, corporation, or other business entity that, on the date the contract is first advertised or announced as available for bidding:

1. Is authorized to transact business in the Commonwealth;
2. Has for one year prior to and through the date of advertisement
   a. Filed Kentucky corporate income taxes;
   b. Made payments to the Kentucky unemployment insurance fund established in KRS 341.49; and
   c. Maintained a Kentucky workers' compensation policy in effect.

The BIDDING AGENCY reserves the right to request documentation supporting a bidder's claim of resident bidder status. Failure to provide such documentation upon request shall result in disqualification of the bidder or contract termination.

_____ _____
Signature Printed Name

_____ _____
Title Date

Company Name _____

Address _____

_____

_____

Subscribed and sworn to before me by _____ _____
(Affiant) (Title)

of _____ this _____day of _____,20___.
(Company Name)

_____
Notary Public

[seal of notary] My commission expires: _____

REQUIRED AFFIDAVIT FOR BIDDERS, OFFERORS AND CONTRACTORS CLAIMING QUALIFIED BIDDER STATUS

FOR BIDS AND CONTRACTS IN GENERAL:

I. The bidder or offeror swears and affirms under penalty of perjury that the entity bidding, and all subcontractors therein, meets the requirements to be considered a "qualified bidder" in accordance with 200 KAR 5:410(3); and will continue to comply with such requirements for the duration of any contract awarded. Please identify below the particular "qualified bidder" status claimed by the bidding entity.

_____ A nonprofit corporation that furthers the purposes of KRS Chapter 163

_____ Per KRS 45A.465(3), a "Qualified nonprofit agency for individuals with severe disabilities" means an organization that:
(a) Is organized and operated in the interest of individuals with severe disabilities; and
(b) Complies with any applicable occupational health and safety law of the United States and the Commonwealth; and
(c) In the manufacture or provision of products or services listed or purchased under KRS 45A.470, during the fiscal year employs individuals with severe disabilities for not less than seventy-five percent (75%) of the man hours of direct labor required for the manufacture or provision of the products or services; and
(d) Is registered and in good standing as a nonprofit organization with the Secretary of State.

The BIDDING AGENCY reserves the right to request documentation supporting a bidder's claim of qualified bidder status. Failure to provide such documentation upon request may result in disqualification of the bidder or contract termination.

_____ _____
Signature Printed Name

_____ _____
Title Date

Company Name _____

Address _____

_____

BID SPECIFICATION

AIR-PAK X3 SCBA, 2013 Compliant

General Self-Contained Breathing Apparatus Requirements
The purpose of this bid specification is to establish the minimum requirements for an open-circuit self-contained breathing apparatus (SCBA). The SCBA shall consist of the following major sub-assemblies: (1) full facepiece assembly; (2) a removable, facepiece-mounted, positive pressure breathing regulator with air-saver switch; (3) an automatic dual path redundant pressure -reducing regulator; (4) end-of-service time indicators; (5) a harness and backframe assembly for supporting the equipment on the body of the wearer; (6) a shoulder strap mounted, remote gauge indicating cylinder pressure; (7) a rapid intervention crew/universal air connection (RIC/UAC); and (8) cylinder and valve assembly for storing breathing air under pressure.

The successful bidder agrees to provide, at their own expense, a factory trained instructor for such time as the respirator user shall require complete instruction in the operation and maintenance of the respirator. Any exceptions to these specifications must be detailed in a separate attachment. Failure to do so will automatically disqualify the bidder.

The successful bidder must be a sales distributor, authorized by the manufacturer, to sell the equipment specified herein. A signed document from the manufacture confirming this must be included with the bid.

The SCBA shall maintain all NIOSH standards with any of the following types of cylinders listed as provided by the SCBA manufacturer.

Regulatory Approvals	Product:		
	Meets	Does Not Meet	Exception
The SCBA shall be approved to NIOSH 42 CFR, Part 84 for chemical, biological, radiological and nuclear protection (CBRN).			
The SCBA shall be compliant to the NFPA 1981, 2013 Edition, Standard on Open-Circuit Self-Contained Breathing Apparatus for Emergency Services.			
The SCBA shall be compliant to the NFPA 1982, 2013 Edition (if including optional PASS Device), Standard on Personal Alert Safety Systems.			
If the SCBA is to include an optional integrated self-rescue device, the device shall be compliant to the NFPA 1983, 2012 Edition, Standard on Life Safety Rope and Equipment for Emergency Services.			
All electronic components shall be approved for Intrinsic Safety under UL 913 Class I, Groups C and D, Class II, Groups E, F and G, Hazardous locations.			

Required Components	Product:		
Facepiece	Meets	Does Not Meet	Exception
The facepiece shall have a large diameter inlet serving as the female half of a quarter (1/4) turn coupling which mates with the positive pressure breathing regulator.			
The facepiece shall be approved for use with multiple respiratory applications to enable the same user to switch from one application to another without the use of tools and without doffing the facepiece.			
The full facepiece assembly shall fit persons of varying facial shapes and sizes with minimal visual interference.			
The full facepiece assembly shall be available in three sizes marked "S" for small, "M" for Medium and "L" for large.			
The facepiece sizes shall be easily identifiable through a color-coding scheme.			
The facepiece assembly, including head harness, shall be latex free.			
The facepiece series shall have a faceseal that is secured to the lens by a U-shaped channel frame that is retained to the lens using two fasteners.			
The faceseal shall be a reverse reflex design for enhanced fit and comfort.			
The facepiece shall contain inhalation valves that are readily visible to enable quick visual inspection.			
The lens shall be a single, replaceable, modified cone configuration constructed of a non-shatter type polycarbonate material.			
In accordance with NIOSH 42 CFR part 84, the facepiece meets penetration and impact requirements, including compliance with ANSI Z87.1 – 2010.			
The lens shall have a coating to resist abrasion and chemical attack and meet the requirements of NFPA-1981, for lens abrasion.			
The lens shall have an internal anti-fog coating to reduce fogging of the lens.			
Multi-directional voicemitters shall be mounted on both sides of the facepiece and ducted directly to an integral silicone nosecup to enhance voice transmission.			

The facepiece assembly shall be able to incorporate multiple electronic communications options (amplification, radio interface, wireless, etc) without affecting NIOSH approvals or NFPA/CBRN approvals where applicable.			
The facepiece shall enable the installation of communications bracket on either the right or left side.			
The head harness shall be available in a five-point suspension made in the fashion of a net hood to minimize interference between securing of the facepiece and the wearing of head protection.			
The head harness shall be available in a five-strap and four-strap configuration.			
The head harness shall be constructed of a para-aramid material for fire, first responder and CBRN applications.			
The head harness shall include either a positioning strap (five-strap configuration) or an integrated handle (four-strap configuration) to assist with donning of the facepiece.			
Two flame resistant elastic straps, attached to the faceseal in four locations, shall provide adjustment for proper face sealing.			
	Product:		
Mask-Mounted Regulator	Meets	Does Not Meet	Exception
The facepiece-mounted positive pressure-breathing regulator shall supply and maintain air to the facepiece to satisfy the needs of the user at a pressure greater than atmospheric by no more than 1.5 inches of water pressure static.			
The breathing regulator shall maintain positive pressure during flows of up to 500 standard liters per minute.			
The regulator shall also meet or exceed a dynamic flow requirement of remaining positive while supplying a minute volume of 160 liters.			
The breathing regulator shall have attached a low pressure hose which shall be threaded through the left shoulder strap to couple to the pressure-reducing regulator mounted on the backframe.			
An optional regulator shall be available with a quick connect coupling in line for use with the optional outlet manifold and accessory hose to allow the breathing regulator to be disconnected from the unit and reconnected to the auxiliary hose of a second unit in the event rescue is required.			
The optional quick connect coupling shall be easily connected and disconnected by trained individuals with a gloved hand and/or in low light conditions.			
The optional quick connect coupling shall not allow the air hose to be connected without the HUD Connection.			

The optional coupling shall also be guarded against inadvertent disconnect during use of the equipment.			
The low-pressure hose shall be equipped with a swivel attachment at the facepiece mounted regulator.			
The regulator shall connect to the facepiece by way of a quarter (1/4) turn coupling.			
The user shall hear an audible sound when the regulator is attached correctly to the facepiece.			
The regulator shall be equipped with a doughnut-shaped gasket which provides a seal against the mating surface of the facepiece.			
The regulator cover shall be fabricated of a flame resistant, high impact plastic.			
The breathing regulator shall have a demand valve to deliver air to the user, activated by a diaphragm responsive to respiration.			
The demand valve shall use an extended temperature range dynamic O-ring seal composed of a fluorosilicone elastomer.			
The diaphragm shall include the system exhalation valve and shall be constructed from a high strength butyl elastomer.			
A purge valve shall be situated at the inlet of the breathing regulator and shall be capable of delivering airflow of between 125 and 225 standard liters per minute.			
The breathing regulator shall be designed to direct the incoming air through a spray bar and over the inner surface of the facepiece lens for defogging purposes.			
The components of the breathing regulator shall be constructed of materials that are not vulnerable to corrosion.			
The flame resistant cover shall contain an air saver switch and pressure demand bias mechanism.			
The regulator shall reactivate and supply air only in the positive pressure mode when the wearer affects a face seal and inhales.			
This device shall not affect the breathing flow through the system while in operation.			

	Product:		
Pressure Reducer with CGA Cylinder Connection	Meets	Does Not Meet	Exception
The pressure-reducing regulator shall be mounted at the waist on the backframe and be coupled to the cylinder valve through a short length of internally armored high pressure hose with a hand coupling for engagement and sealing within the cylinder valve outlet.			
In lieu of a manual by-pass, the pressure-reducing regulator shall include a back-up pressure-reducing valve connected in parallel with the primary pressure-reducing valve and an automatic transfer valve for redundant control.			
The back-up pressure-reducing valve shall also be the means of activating the low-pressure alarm devices in the facepiece-mounted breathing regulator.			

This warning shall denote a switch from the primary reducing valve to the back-up reducing valve whether from a malfunction of the primary reducing valve or from low cylinder supply pressure.			
A press-to-test valve shall be included to allow bench testing of the back-up reducing valve.			
The pressure-reducing regulator shall have extended temperature range dynamic O-ring seals composed of fluorosilicone elastomer.			
The pressure-reducing regulator shall have incorporated a reseatable over-pressurization relief valve which shall prevent the attached low pressure hose and facepiece-mounted breathing regulator from being subjected to high pressure.			
	Product:		
End-of-Service Time Indicator (EOSTI)	Meets	Does Not Meet	Exception
The SCBA shall have two end-of-service time indicators (EOSTI). A tactile alarm and a Heads-Up Display (HUD).			
The primary EOSTI shall be the integral low-pressure alarm device that shall combine an audible alarm with simultaneous vibration of the facepiece.			
The primary EOSTI shall be located in the Facepiece-Mounted Positive Pressure Regulator.			
This alarm device shall indicate either low cylinder pressure (33% +5%, -0%) or a malfunction of the primary pressure-reducing valve (first stage regulator).			
The HUD shall serve as the secondary EOSTI.			
The HUD shall be powered by the SCBA's single power supply.			
It shall be mounted in the user's field of vision on the Facepiece-Mounted Positive Pressure Regulator.			
It shall display cylinder pressure in increments of 100%, 75%, 50% and 33%.			
The display shall not have a numerical representation of bottle pressure.			
At full bottle pressure, two green Light Emitting Diodes (LED) shall be illuminated.			

At three-quarter bottle pressure, one green LED shall be illuminated.			
At one-half bottle pressure, one "yellow" LED shall be illuminated and flash at a rate not to exceed one (1x) time per second.			
At one-third bottle pressure, one "red" LED shall be illuminated and flash at a rate not to exceed ten (10x) times per second.			
The HUD shall have a low battery indication that is distinct and distinguishable from the bottle pressure indications.			
	Product:		
Harness and Backframe Assembly	Meets	Does Not Meet	Exception
A lightweight, lumbar support style backframe and harness assembly shall be used to carry the cylinder and valve assembly and the pressure-reducing regulator assembly.			
The backframe shall be a solid, one-piece black powder-coated aluminum alloy frame that is contoured to follow the shape of the user's back.			
It shall include a shroud to streamline hose and wire management by minimizing exposure of the low pressure hose and electronics molded cable.			
The backframe shall include a mounting for the pressure reducer located at the waist.			
The backframe shall include an over-the-center, adjustable tri-slide fixture, a para-aramid strap and a double-locking latch assembly to secure 30, 45, 60, or 75 minute cylinders.			
The harness assembly shall consist of a one size black para-aramid strap with a yellow stripe.			
This harness shall include box-stitched construction with no screws or bolts.			
The harness assembly shall incorporate parachute-type, quick-release buckles and shall include shoulder and hip pads. Optional spring (alligator) clips shall also be available.			
The harness shall include a seat-belt type waist attachment.			
The shoulder strap shall be fitted with a Drag Rescue Loop (DRL) capable of being deployed in an emergency situation to drag a downed firefighter to safety.			

The shoulder strap shall be attached to the backframe by way of a single, articulating metal bracket to allow for optimal shoulder movement.			
The backframe shall include accommodation and a mounting area suitable for installation of a distress alarm integrated with the SCBA.			
The mounting area shall permit installation of a distress alarm sensor module in an area between the pressure reducer and the backframe.			
	Product:		
Control Console with Heads-Up Display (replace this section if requiring a PASS device, see below)	Meets	Does Not Meet	Exception
The pressure gauge shall be an integral part of the control console assembly.			
The control console shall come with a mechanical (analog) pressure gauge that is angled at 30° with a sweeping display.			
The control console shall contain an integral edge lit mechanical pressure gauge that is automatically turned on by opening the cylinder valve.			
The control console shall contain a photo sensing diode to dim and brighten the HUD as the ambient lighting changes.			
The console shall power the HUD with two AA batteries.			
	Product:		
Rapid Intervention Crew / Universal Air Connection (RIC/UAC)	Meets	Does Not Meet	Exception
The SCBA shall incorporate a RIC/UAC fitting to be compliant with the 2013 edition of the NFPA 1981 Self-Contained Breathing Apparatus standard.			
The RIC/UAC shall be an integral part of the pressure reducer and protected by the backframe.			
The RIC/UAC inlet connection shall be within 4" (4-inches) of the tip of the CGA threads of the cylinder valve.			
The RIC/UAC shall consist of a connection for attaching a high-pressure air source and a self-resetting relief valve allowing a higher pressure than that of the SCBA to be attached to the SCBA.			
The self-resetting relief valve shall be color-coded to identify pressure rating of the SCBA.			

The RIC/UAC shall have a check valve to prevent the loss of air when the high-pressure air source has been disconnected.			
	Product:		
Cylinder	Meets	Does Not Meet	Exception
The cylinder threads shall be straight with an O-ring or quad-ring gasket type seal.			
The cylinder valve shall be a "fail open" type, constructed of forged aluminum and designed such that no stem packing or packing gland nuts are required.			
It shall contain an upper and lower seat such that the pressure will seal the stem on the upperseat, thus preventing leakage past the stem.			
No adjustment shall be necessary during the life of the valve.			
If the SCBA is equipped with a CGA cylinder connection, the cylinder valve outlet shall be a modification of the Compressed Gas Association (CGA) standard threaded connection number 346 for breathing air for 2216 and CGA 347 for 4500 and 5500 systems.			
If the SCBA is equipped with a Snap-Change Cylinder connection, the cylinder valve shall be designed with a patented stainless steel quick connect snout that delivers air directly to the first stage pressure-reducing regulator. The quick connect snout shall be an integral part of the cylinder valve, rather than an adapter that threads onto the CGA fitting.			
If the SCBA is equipped with a Snap-Change Cylinder connection, the cylinder valve shall be offered with a CGA 346 or CGA 347 fitting for the purposes of filling the cylinder only.			
If the SCBA is equipped with a Snap-Change Cylinder connection, the fill fitting shall have a check valve to prevent flow from the cylinder.			
If the SCBA is equipped with a Snap-Change Cylinder connection, the fill fitting shall be provided with a dust cover to protect threads from damage and prevent interior surfaces from being contaminated when not in use.			
If the SCBA is equipped with a Snap-Change Cylinder connection, the dust cover shall be retained to the cylinder valve.			
Each cylinder valve shall consist of the following: 1) a hand activated valve mechanism with a spring-loaded, positive action, ratchet type safety lock and lock-out release for selecting "lock open service" or "non-lock open service"; 2) an upstream connected frangible disc safety relief device; 3) a dual reading pressure gauge indicating cylinder pressure at all times; 4) an elastomeric bumper; 5) an angled outlet.			
The SCBA shall maintain all NIOSH and NFPA standards with any of the following types of cylinders listed as provided by the SCBA manufacturer.			

Carbon-Wrapped			
The cylinder shall be manufactured in accordance with DOT specifications and meet the Transport Canada requirements with working pressures of 4500 psig.			
The cylinder shall be lightweight, composite type cylinder consisting of an aluminum alloy inner shell, with a total overwrap of carbon fiber, fiberglass and an epoxy resin.			
The cylinder shall be available in a 30-minute, 45-minute, or 60-minute duration based on the NIOSH breathing rate of 40 liters per minute (lpm).			
The cylinder shall be available in an approved 30-year life design as defined by the DOT Special Permit 14232.			
	Product:		
Warranty	Meets	Does Not Meet	Exception
The unit shall be covered by a warranty providing protection against defects in materials or workmanship.			
This warranty shall be for a period of 10 years on the SCBA, except for the pressure reducer, which shall be covered for 15 years.			
Optional Components	Product:		
Personal Alert Safety System	Meets	Does Not Meet	Exception
The PASS Device shall be compliant to the NFPA 1982, 2013 Edition Standard on Personal Alert Safety Systems.			
Operation of this distress alarm shall be initiated with the opening of the valve of an SCBA charged cylinder.			
The system shall feature a "hands-free" re-set capability that may be activated by means of a slight movement of the SCBA when the system is in a pre-alarm mode.			
The system shall operate from a single power source containing six "AA" batteries.			

The battery life of the SCBA with PASS only shall be no less than 200 hours.			
The system shall have a battery check function that provides an LED indication of battery status while the SCBA is not pressurized.			
The PASS System shall be upgradeable to include a 2.4 GHz integrated locator system.			
The PASS system shall be upgradeable to include a 2.4 GHz integrated SCBA air / PASS (telemetry) management system.			
The PASS device shall contain two components: a Console and a Sensor Module.			
When the PASS device goes into pre-alarm, the user shall be notified through a distinct light pattern in the HUD display.			
Console			
The console shall be located on the user's right shoulder harness.			
The control console shall come with a mechanical (analog) pressure gauge that is angled at 30° with a sweeping display.			
The console shall contain an integral edge lit mechanical pressure gauge that is automatically energized by opening the cylinder valve.			
The console shall display to the user the following: Pre-Alarm: alternating red flashing LED's; Full Alarm: dual flashing red LED's and a flashing PASS icon; Low Battery: red flashing LED's; Normal System Operation: flashing green LED.			
The console shall contain a photo sensing diode to dim and brighten the HUD as the ambient lighting changes.			
The console shall contain push buttons for user interface.			
The push buttons shall be designed to minimize accidental activation.			
A yellow color-coded push button shall permit system re-set.			

A red color-coded push button shall permit manual activation of the full alarm mode.			
The console shall be equipped with a LED "External HUD" allowing others to determine the wearer's cylinder pressure through the same color-code scheme as the standard HUD.			
A green LED shall be illuminated across the gauge face to indicate a cylinder with greater than half bottle pressure.			
A yellow LED shall be illuminated across the gauge face to indicate a cylinder with less than half bottle pressure.			
A red LED shall be illuminated across the gauge face to indicate a cylinder with less than one-third bottle pressure.			
Sensor Module			
The system shall include a sensor module mounted to the SCBA backframe and located in an area between the cylinder and backframe in a manner designed to protect the assembly from damage.			
The sensor module shall contain a motion sensor that is sensitive to user hip movement to reduce false activation.			
The sensor module shall contain redundant, dual sound emitters for the audible alarm and dual visual "buddy" indicators.			
The sensor module sound emitters shall be oriented in multi-directions for optimal sound projection.			
The visual indicators on the backframe mounted sensor module shall flash green during normal operation.			
The visual indicators shall flash red when the device is in pre-alarm and full-alarm.			
The visual indicators shall flash orange when the SCBA has reached one-half bottle pressure.			
The visual indicators shall flash a combination of red, green, and white when the SCBA has reached one-third bottle pressure.			
		Product:	
Personal Alert Safety System with Firefighter Locator	Meets	Does Not Meet	Exception
The PASS Device shall be compliant to the NFPA 1982, 2013 Edition Standard on Personal Alert Safety Systems.			

Operation of this distress alarm shall be initiated with the opening of the valve of an SCBA charged cylinder.			
The system shall feature a "hands-free" re-set capability that may be activated by means of a slight movement of the SCBA when the system is in a pre-alarm mode.			
The system shall operate from a single power source containing six "AA" batteries.			
The battery life of the SCBA with PASS only shall be no less than 200 hours.			
The system shall have a battery check function that provides an LED indication of battery status while the SCBA is not pressurized.			
When the PASS is manually activated, the locator system shall immediately emit a 2.4 GHz signal to be received by a separate hand-held receiver.			
When the PASS is activated due to lack of motion, the locator system shall have a ten second delay prior to emitting a 2.4 GHz signal to be received by a separate hand-held receiver.			
The system shall utilize a 2.4 GHz signal to provide the best path to a "downed" firefighter.			
The locating system shall be programmable with eight alpha-numeric characters to provide identification information.			
The PASS device shall contain two components: a Console and a Sensor Module.			
When the PASS device goes into pre-alarm, the user shall be notified through a distinct light pattern in the HUD display.			
Console			
The console shall be located on the user's right shoulder harness.			
The console shall contain an integral edge lit mechanical pressure gauge that is automatically turned on by opening the cylinder valve.			
The console shall display to the user the following: Pre-Alarm: alternating red flashing LED's; Full Alarm: dual flashing red LED's and a flashing PASS icon; Low Battery: red flashing LED's; Normal System Operation: flashing green LED.			

The console shall contain a photo sensing diode to dim and brighten the HUD as the ambient lighting changes.			
The console shall contain push buttons for user interface.			
The push buttons shall be designed to minimize accidental activation.			
A yellow color-coded push button shall permit system re-set.			
A red color-coded push button shall permit manual activation of the full alarm mode.			
The console shall be equipped with a LED "External HUD" allowing others to determine the wearer's cylinder pressure through the same color-code scheme as the standard HUD.			
A green LED shall be illuminated across the gauge face to indicate a cylinder with greater than half bottle pressure.			
A yellow LED shall be illuminated across the gauge face to indicate a cylinder with less than half bottle pressure.			
A red LED shall be illuminated across the gauge face to indicate a cylinder with less than one-third bottle pressure.			
Sensor Module			
The system shall include a sensor module mounted to the SCBA backframe and located in an area between the cylinder and backframe in a manner designed to protect the assembly from damage.			
The sensor module shall contain a motion sensor that is sensitive to user hip movement to reduce false activations.			
The sensor module shall contain redundant, dual sound emitters for the audible alarm and dual visual "buddy" indicators.			
The sensor module sound emitters shall be oriented in multi-directions for optimal sound projection.			
The visual indicators on the backframe mounted sensor module shall flash green during normal operation.			

The visual indicators shall flash red when the device is in pre-alarm and full-alarm.			
The visual indicators shall flash orange when the SCBA has reached one-half bottle pressure.			
The visual indicators shall flash a combination of red, green, and white when the SCBA has reached one-third bottle pressure.			
		Product:	
Emergency Breathing Support System "Buddy Breathing"	Meets	Does Not Meet	Exception
The Optional Dual Emergency Breathing Support System (EBSS) shall be approved to NIOSH 42CFR, Part 84 and NFPA 1981, 2013 Edition.			
The Dual EBSS shall have one of each of the following requirements; (1) a manifold with one each of a female socket and male plug, both of which have check valves, (2) 40" minimum low-pressure hose, (3) a pouch for storing the hose, and (4) a dust cap for the female socket and male plug.			
The Dual EBSS shall be positioned on the wearer's right side and shall be capable of allowing for six feet of hose between like systems.			
The manifold shall be made of aluminum and be anodized black.			
The female socket and male plug shall have spacing, no less than 15° off-center.			
The female socket shall have a double action to disengage, noted as a "push-in/pull-back".			
The female socket shall have an internal check valve.			

The male plug shall have an external check valve.			
The hose shall be made of high temperature rubber capable of sustaining a maximum 250 psig of pressure.			
The containment system shall include a pouch and shall be made of para-aramid materials and shall be capable of storing 36" of hose.			
The pouch shall be attached to the SCBA by snap fasteners.			
The pouch shall have a pull-strap to assist with opening of the flap and gaining access to the hose and manifold assembly.			
The Dual EBSS shall have provision for connection of a supplied airline for extended duration use while reserving the cylinder supply for egress.			
The Dual EBSS shall connect to a supplied airline using an extended duration airline adapter.			
The extended duration airline adapter shall have a female quick connect fitting on one end to connect to the Dual EBSS.			
The extended duration airline adapter shall have a male quick connect fitting on one end to connect to a supplied airline. The adapter shall be able to accommodate Hansen, Foster, Hansen HK, or Schrader.			
The extended duration airline adapter shall have a check valve to prevent the accidental loss of air when the adapter is disconnected from the supplied airline.			
	Product:		
Electronic Voice Amplifier	Meets	Does Not Meet	Exception
The respirator shall have an optional facepiece-mounted voice amplification device to electronically project the user's voice.			
The voice amplification device shall be mounted to the facepiece by means of a bracket that is secured around the voicemitter of the facepiece.			
The device shall contain a bayonet-style mounting fixture that enables the user to insert the voice amplifier into the bracket and secure it with a quarter-turn counter-clockwise when it shall lock into place.			
The device shall contain a thumb latch to permit removal when it is pressed and the device is rotated a quarter-turn clockwise.			
The thumb latch shall contain a captive screw that enables the user to			

prevent removal.			

The device shall weigh no more than 7 ounces 225 (grams) and its size shall not exceed the following dimensions: Length: 3.50 inches; (8.89 cm); width: 2.0 inches (5.08 cm); depth (extension from voice emitter): 1.75 inches (4.44 cm).			
The device shall be able to be upgraded to a voice amplifier, radio interface, and stand-alone radio communication system that all reside in a single housing with a single power source.			
The device shall contain a momentary on/off switch with a tactile indication and audible click when depressed.			
The switch shall be covered with a sheath made of a silicone material.			
The device shall contain an LED which illuminates green when the device is activated and flashes once per second when a low battery condition (approximately 10% of battery life remaining) is present.			
The device shall provide audible tones to indicate that the system has been energized, de-energized and to provide a low battery indication.			
The device shall be powered by three AAA alkaline batteries, which shall provide no less than 50 hours of continuous operation with fully-charged batteries.			
The batteries shall be contained in a gasket sealed compartment secured in place by means of a fastener.			
The door of the battery compartment shall be user-replaceable.			
The device shall contain an automatic shutdown function that de-energizes the voice amplifier approximately 20 minutes after the last time the user speaks.			
Designed to conserve battery life when a user forgets to turn off the voice amplifier, the voice amplifier shall be reactivated after shutdown by pressing the on/off switch.			
The microphone shall be located on the surface of the bayonet mounting fixture and voice projection shall be facilitated by means of a circular gasket that seals the device to the communications mounting bracket.			
The amplifier shall contain a custom speaker designed for pushing sound through background noises commonly found at emergency events.			
The device shall not feedback for longer than 1 second when worn in a Level A HazMat suit.			
The device shall be able to provide a minimum STI score of 0.65, even though NFPA minimum requirement is 0.60.			

The voice amplifier, when attached to a facepiece, shall be able to withstand a 30 minute tumble test.			
A single voice amplifier shall be able to withstand eight, 6 foot drops, once on each side and on two edges.			
The voice amplifier shall be able to withstand a 30 minute tumble test not attached to the facepiece.			
	Product:		
In-Mask Thermal Imaging	Meets	Does Not Meet	Exception
The respirator shall have an optional hands-free, in-mask thermal imaging display.			
The in-mask thermal imaging display shall be approved to NIOSH 42 CFR Part 84 and NFPA 1981, 2013 edition.			

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