

**NOTICE TO BIDDERS  
AIR PACKS**

Notice is hereby given that the Board of County Commissioners of Santa Rosa County, Florida, will receive sealed bids for 4 air packs.

All bids must be in writing and delivered by hand, Fed Ex, or mail to the Santa Rosa County Procurement Department, 6495 Caroline Street, Suite G, Milton, Florida, 32570; and must be received by 10:00 a.m., December 9, 2008, at which time bids will be opened and read aloud. Any bid received after the time set for opening will be rejected and returned unopened to the bidder. Each bid shall be submitted on the bid form provided. Bids are to be sealed and plainly labeled "**BID – AIR PACKS**". All interested parties are invited to attend.

Specifications and bid form may be secured from the Santa Rosa County Website ([www.santarosa.fl.gov/bids](http://www.santarosa.fl.gov/bids)) or at the Santa Rosa County Procurement Department at the above address. Telephone (850) 983-1870.

The Board of County Commissioners reserves the right to waive irregularities in bids, to reject any or all bids with or without cause, and to award the bid that it determines to be in the best interest of Santa Rosa County.

Santa Rosa County does not discriminate on the basis of race, color, national origin, sex, religion, age, or handicapped status in employment or provision of service.

By order of the Board of County Commissioners of Santa Rosa County, Florida.

**LEGAL NOTICE**

One issue – November 8, 2008- Press Gazette, November 13, 2008 - Navarre Press

Bill and proof to Santa Rosa County Procurement Department, 6495 Caroline Street, Suite G, Milton, Florida, 32570, Attn.: Orrin L. Smith.

November 8, 2008

**MEMORANDUM**

TO: Company Addressed  
FROM: Santa Rosa County Procurement Department  
SUBJECT: Air Packs

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**MINIMUM SPECIFICATIONS**  
**SELF CONTAINED BREATHING APPARATUS**  
*(2216 psig Air Packs)*

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*Prepared for: Santa Rosa County Fire Service*

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**I. Purpose:**

To establish minimum standards for self-contained breathing apparatus, equipped with the following options: carrier and harness, Integrated PASS, HUD System, facepiece, cylinder, and CBRN protection.

**II. Approvals:**

The apparatus shall be approved by the National Institute for Occupational Safety and Health (NIOSH), under 42 CFR, Part 84 for chemical, biological, radiological, and nuclear protection (CBRN) with a 30, 45, or 60-minute-rated service life and compliant with all requirements of the National Fire Protection Association's 2007 Edition of NFPA-1981 Standard on Open-Circuit Self-Contained Breathing Apparatus. Units equipped with an integrated PASS must meet the requirements of NFPA 1982, 2007 edition. Units equipped with a Rescue Belt, shall also comply with the NFPA 1983 Standard on Fire Service Life Safety Rope and System Components, 2006 Edition; Type: Escape. Units equipped with the Accountability System must meet the minimum requirements for FCC parts 15 & part 90.

**III Specific Requirements:**

**1. Facepiece:**

1. The facepiece shall be available in three sizes in Hycar rubber.
2. The lens shall be field-replaceable and of a non-shatter type and shall fit all three sizes of the facepiece
3. The facepiece shall have an inhalation check valve and exhalation valve to prevent exhaled air from entering and contaminating the mask-mounted regulator.
4. The facepiece head harness shall be a flame and heat-resistant Kevlar assembly featuring a suspension with five-points of attachment and four points of adjustment.
5. The facepiece shall have a speaking diaphragm with aluminum-coated membrane suitably protected, and located centrally on the facepiece for optimal voice projection.
6. Two sizes of removable nose cups. The nose cup shall contain a voice collector system which enhances unamplified speech transmission.
7. An optional flame and heat-resistant PBI neck strap shall be offered, to carry the facepiece in a ready position for quick donning.
8. The facepiece shall be HUD ready, incorporating a mounting bracket for an HUD Receiver.

**2. HUD System**

1. The HUD System, Heads-Up-Display, shall be wireless to eliminate snag hazards and provide modularity for easy maintenance. It shall be comprised of two primary components 1) Control Module and 2) HUD Receiver.
2. The HUD shall provide the user with the remaining volume of air in their cylinder in 25% increments through a series of 4 colored LEDs.
3. The light logic used to convey remaining cylinder volume shall be as follows:

Four Green Lights	-	76 to 100% Cylinder Volume
Three Green Lights	-	51 to 75% Cylinder Volume
Two Flashing Amber Lights	-	26 to 50% Cylinder Volume
Flashing Red Light	-	0 to 25% Cylinder Volume

4. The HUD System shall allow the user to select between two modes of operation, a 1) Continuous lights on mode or 2) an Intermittent lights on mode for power conservation.
5. The HUD shall incorporate a photoelectric sensor that senses ambient light conditions automatically adjusting the display to one of 16 pre-programmed light intensities.
6. The HUD shall provide the user and their partner (by means of a buddy light) with a visual alarm indication of a low air cylinder.
7. The HUD shall indicate to the user of PASS pre-alarms with a blinking orange light seen inside the facepiece.
8. The Control Module shall incorporate a refresh button that permits a user to update their display or change the receiver's mode of operation.
9. The receiver shall use three AAA alkaline batteries. The batteries shall be contained in removable cartridge for easy replacement. The radial-sealed battery compartment shall incorporate an o-ring seal.
10. The HUD System shall be immune to radio frequency interference (RFI), and must function properly in the close proximity of fire service hand-held radios.
11. The HUD shall incorporate a sonically welded seal to provide the highest level of protection against water ingress.
12. The HUD shall provide the user with a low-battery indicator.
13. The HUD shall be field removable and replaceable without the use of tools.

### **3. Rapid Intervention Crew (RIC) System**

1. The RIC connection shall use the URC (universal rescue connection)
2. The system shall be capable of:
  - Quickly refilling (less than one minute) an SCBA cylinder from a mobile compressor, cascade system or RIT Pack.
  - Transfilling between two SCBA wearers, providing an emergency breathing system (EBS), while maintaining NIOSH approvals.
  - Extend the wearer's air supply over longer duration when a remote cascade system or other compressed gas source is located in a remote area.
  - Transfill and refill in immediately dangerous to life or health (IDLH) atmospheres.

### **4. First-Stage Regulator:**

1. Reduces the cylinder pressure to an outlet pressure not to exceed 100 psi. Regulator outlet pressure must be adjustable.
2. There shall not be more than 14 replacement parts on the regulator.
3. Regulator redundancy shall be achieved by two inter-nested long-life springs.
4. *The regulator body shall be constructed of a high strength heat treated aluminum alloy, and plated with a Teflon hard coat anodize to minimize corrosion and wear of internal components.*
5. *The regulator must not require any special tools for disassembly.*
6. *The pressure reducer shall incorporate a down stream flow to ensure fail-safe in an open position.*
7. *The regulator shall be mounted on a slide bracket to facilitate easy cylinder attachment and to prevent binding of high-pressure hose.*

### **5. Mask-Mounted Regulator: ( Slide to Connect or Push to Connect)**

The mask-mounted pressure-demand regulator shall consist of the following:

1. An over-the-shoulder air-supply hose routed through a shoulder strap tunnel to the first-stage regulator. For durability, the air-supply hose must be made of neoprene from the second stage regulator attachment to an inline swivel or quick-connect.
2. As an option, the detachable regulator must have a push-to-connect attachment to the facepiece. This option of the regulator shall feature a non-indexing design, capable of mounting to the facepiece in any orientation. In this configuration, the regulator must rotate freely when connected to the facepiece, maximizing the user's freedom of head movement.

3. As an option, the detachable regulator must have a slide-to-connect attachment to the facepiece, with an audible click. The regulator's forked upper attachment slides down a track that is molded into the inhalation assembly cover of the facepiece. This provides an ambient air stand-by mode for the regulator, allowing the user to go on air quickly with a simple push of the regulator into the facepiece. In this configuration, the regulator must be restricted from rotation after attachment to maintain a consistent location of the regulator controls with respect to the user.
4. The second stage regulator shall not obstruct or reduce the field of vision of the wearer when installed on the facepiece.
5. When doffing the regulator, the disengagement of the regulator from the facepiece must simultaneously stop the flow of air.
6. The second stage regulator must not require any tools for disassembly. Number of parts in the second stage regulator is not to exceed a count of 28 parts.
7. The second stage regulator must be equipped with Positive Protection Tetraplex Shield membrane that covers the diaphragm, preventing against the permeation of CBRN agents.
8. The second stage regulator must be labeled with a CBRN notation.
9. The regulator must be equipped with a variable flow by-pass.

#### **6. Primary Low Pressure Warning Device:**

1. An audible alarm shall be an air-actuated, self-cocking, continuous ringing audible warning bell automatically operating when air pressure in the supply cylinder reaches approximately 25% of the rated service life.

#### **7. Cylinders:**

1. The cylinder shall be constructed of a deep-drawn, seamless aluminum liner that is fully wound over its entire surface (except for the thick neck area) with high-strength carbon fiber filaments impregnated with epoxy resin.
2. The cylinder shall have a minimum 2-inch wide luminescent band to enhance visibility of the wearer.
3. The cylinder shall contain a closing valve which shall incorporate a pressure gauge to indicate the pressure in the cylinder at all times. The pressure gauge face shall be luminescent. The handwheel shall be at a 90° angle from the longitudinal plane of the cylinder.
4. The valve shall incorporate a flow control insert to limit the airflow over the first half-rotation of the handwheel, minimizing propulsion thrust in the event the cylinder is mishandled.
5. Cylinders must be available in operating pressure of 2216 psi.
6. Cylinders with 2216 psig operating pressure must be rated for 30 minutes.

#### **8. Carrier & Harness:**

1. An adjustable double-pull Kevlar waist belt.
2. A metal push-button seat belt-type buckle.
3. Two padded Nomex shoulder straps, each having a Kevlar strap reinforcement that provides retention if the Nomex fibers are weakened. The shoulder straps shall have retroreflective markings and shall have anti-rotation-style buckles for ease of adjustment.
4. The friction buckles of the shoulder straps and waist strap shall be constructed of forged stainless steel for maximum strength and resistance to wear.
5. An optional mid-connect Kevlar-blend chest strap with snap-type fastener that properly positions the shoulder straps allowing full arm movement.
6. An optional lumbar pad shall also be available with a swivel feature to maximize the range of motion and comfort of the user.
7. The backplate shall be constructed of a glass reinforced composite material that conforms to the user's back and provides spine relief for wearers with protruding vertebrae.
8. The backplate shall be equipped with large side handles for pulling and dragging a firefighter to safety. Each handle shall be capable of holding a 400 lb load in the vertical and horizontal direction, with a combined load of 800 lbs.
9. The backplate shall be equipped with a centrally located carabiner attachment point for the purpose of dragging a downed firefighter. The attachment point shall be capable of holding a 1000 lb load.
10. The backplate shall be equipped with a first stage regulator slide for ease of cylinder connection.

11. An adjustable, stainless steel cylinder band having a quick-opening device at one end to properly retain various size cylinders. The cylinder band must retain its open shape for easy cylinder change-out.
12. All harness components shall be affixed with tri-bar slides for easy field replacement.
13. The left shoulder strap shall be equipped with a retaining clip to stow the facepiece while not in use.
14. The belt assembly shall be equipped with a regulator retainer for safe storage of the Firehawk regulator while not in use.
15. The shoulder straps shall incorporate high visibility reflective panels.

## 9. Control Module and Power Module

1. The Control Module is a combination integrated PASS and HUD Transmitter that shall be contained in a single enclosure and shall be easily replaced in the event of fire ground damage.
2. The Control Module unit must be immune to radio frequency interference (RFI), and must function properly in the close proximity of fire service hand-held radios.
3. The Control Module must be equipped with time remaining display and an optional thermal sensor. The time remaining must update calculations every 30 seconds, based on the user's previous 3 minutes of air consumption. The initial calculation will appear after 3 minutes.
4. The unit shall be capable of storing up to 25 hours of use information, in the form of sessions that are generated each time the SCBA is pressurized. The sessions must indicate the day, time, user's name, cylinder pressure, duration of use, and time of alarm (PASS and thermal), for each pressurization of the SCBA stored on a minute-by-minute basis.
5. The sessions must provide the option of being downloaded to a personal computer for addition to maintenance records, or for use in incident investigations.
6. The Control Module must utilize a dual perimeter seal (sonic weld and o-ring) to provide the highest level of protection against water ingress.
7. The Control Module and Power Module must be equipped with "buddy lights" on the front and back of the firefighter. The purpose of the "buddy lights" is to easily identify firefighters that are in immediate need of assistance.
8. The Power Module shall be equipped with dual sound emitters. The sound emitters shall perform at a minimum of 95 dBa after heat emersion of five minutes at 500 Degrees Fahrenheit.
9. The Control Module and Power Module shall be powered by four C-cell batteries.

## 10. Weight

1. The weight of a basic Air Mask (less cylinder) shall not exceed 13 lbs, 4 oz.
2. The weight of the cylinder and valve assemblies (empty) shall not exceed:

Cylinder Type	Weight
Carbon-Wrapped L30	8 lbs, 0 oz.
Carbon-Wrapped H30	7 lbs, 4 oz.
Carbon-Wrapped H45	9 lbs, 7 oz.
Carbon-Wrapped H45LP	9 lbs, 10 oz.
Carbon-Wrapped H60	11 lbs, 12 oz.

## 11. Battery Life

1. The expected service life of the batteries with frequent use on the Control and Power Modules shall be greater than one year.
2. The expected service life of the batteries with frequent use on the HUD shall be greater than one year.

## 12. Voice Amplification

1. An internally mounted microphone coupled with a large-diameter (50mm) amplifier speaker for optimal clarity and volume shall be provided in the facepiece.

**BID FORM  
AIR PACKS**

Santa Rosa County Procurement Department  
6495 Caroline Street, Suite G  
Milton, Florida 32570

Date: \_\_\_\_\_

Dear Sir:

The undersigned agrees to furnish the equipment as requested by you for Santa Rosa County in your invitation to bid and certifies that the equipment bid meets or exceeds the specifications called for, except as set out in "Exceptions to Bid Conditions" and attached to this form.

Make and Model of Equipment \_\_\_\_\_

Name & Address of Bidder \_\_\_\_\_

Parts & Service Location \_\_\_\_\_

Cash Bid Price FOB Milton:

**AIR PACKS \$ \_\_\_\_\_ each**

Delivery Date Must Be Specified \_\_\_\_\_

\_\_\_\_\_  
Company Representative Signature

\_\_\_\_\_  
Telephone

NOTE: Please return this bid form to the above address. NO OTHER BID FORM WILL BE ACCEPTED.

COMMENTS: \_\_\_\_\_

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SWORN STATEMENT UNDER SECTION 287.133 (3) (A),  
FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted to \_\_\_\_\_  
by \_\_\_\_\_  
(print individual's name and title)  
for \_\_\_\_\_  
(print name of entity submitting sworn statement)  
whose business address is \_\_\_\_\_ and (if applicable) its Federal Employer Identification Number (FEIN) is \_\_\_\_\_. If the entity has no FEIN, include the Social Security Number of the individual signing this Sworn Statement: \_\_\_\_\_.
2. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.
3. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.
4. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means:
  1. A predecessor or successor of a person convicted of a public entity crime; or
  2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of public entity crime.
5. I understand that a "person" as defined in Paragraph 287.133(1)(e), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with legal power to enter into a binding contract and which bids or appeals to bid on contracts for the provision of goods and services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.
6. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (Indicate which statement applies.)  
\_\_\_\_\_ Neither the entity submitting this sworn statement, nor one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.  
\_\_\_\_\_ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.  
\_\_\_\_\_ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officers determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. (ATTACH A COPY OF THE FINAL ORDER.)

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH 1 (ONE) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, FLORIDA STATUTES FOR CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

\_\_\_\_\_  
(Signature)

Sworn to and subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_, 2\_\_\_\_\_.

Personally known \_\_\_\_\_

or Produced identification \_\_\_\_\_ Notary Public – State of \_\_\_\_\_

\_\_\_\_\_  
(Type of identification) My commission expires \_\_\_\_\_

\_\_\_\_\_  
(Printed, typed, or stamped commissioned name of notary public.)