

CAROLE JONES,
CHIEF PURCHASING
AGENT

COUNTY OF HENRY, VIRGINIA
PURCHASING DEPARTMENT
<http://www.henrycountyva.gov/>

INVITATION
FOR BIDS
#16-111412-2995

NOVEMBER 4, 2016

SEALED BIDS, SUBJECT TO THE SPECIFICATIONS AND CONDITIONS CONTAINED HEREIN AND ATTACHED HERETO, WILL BE RECEIVED AT THE ABOVE OFFICE UNTIL, BUT NOT LATER THAN, **12:00 P.M.**, LOCAL PREVAILING TIME, **NOVEMBER 14, 2016**, AND THEN PUBLICLY OPENED AND READ IN ROOM 210 (BID ROOM) OF THE SAME OFFICE, **FOR ONE OR MORE OPEN CIRCUIT SELF-CONTAINED BREATHING APPARATUS FOR THE HENRY COUNTY SHERIFF'S OFFICE.**

IF UNABLE TO BID, PLEASE SIGN AND RETURN THIS FORM, ADVISING REASON FOR NOT SUBMITTING A BID. OTHERWISE, YOUR NAME SHALL BE REMOVED FROM OUR BIDDERS LIST AFTER THREE (3) NON-RESPONSES.

BIDDERS SHALL COMPLETE THIS FORM WITHOUT DETACHING FROM REST OF BID AND RETURN BID IN ITS ENTIRETY. BIDDERS MUST SIGN COLLUSION STATEMENT OR BID MAY BE REJECTED.

ANY BID RECEIVED LATE, WILL NOT BE CONSIDERED AND WILL BE RETURNED UNOPENED. **IF THE COUNTY CLOSES ITS OFFICES DUE TO INCLEMENT WEATHER OR FOR OTHER REASONS, SCHEDULED BID OPENINGS WILL BE EXTENDED TO THE FIRST OPEN BUSINESS DAY AT THE SAME TIME, UNLESS AN ADDENDUM IS ISSUED THAT STATES OTHERWISE.**

NOTHING HEREIN IS INTENDED TO EXCLUDE ANY RESPONSIBLE FIRM OR IN ANY WAY RESTRAIN OR RESTRICT COMPETITION. ON THE CONTRARY, ALL RESPONSIBLE FIRMS, LOCAL, FAITH-BASED, MINORITY-OWNED AND FEMALE-OWNED ARE ENCOURAGED TO SUBMIT A BID. THE RIGHT IS RESERVED TO REJECT ANY OR ALL BIDS, TO WAIVE INFORMALITIES, AND ALSO, TO PLACE THE ORDER WITH THE LOWEST RESPONSIVE AND RESPONSIBLE BIDDER WHERE IT APPEARS IT WILL BE TO THE BEST INTEREST OF THE COUNTY.

BID #16-111412-2995

ALL QUOTED PRICES SHALL REMAIN FIRM FOR A PERIOD OF SIXTY (60) DAYS FROM DATE OF BID OPENING. UNIT PRICE/VENDOR WORK WRITE-UP SHALL PREVAIL IN CASE OF VENDOR ERROR. IF YOU HAVE ANY QUESTIONS, PLEASE CALL SEE BID SPECS FOR CONTACT INFO.

RETURN BIDS TO CAROLE JONES, CHIEF PURCHASING AGENT, HENRY COUNTY ADMINISTRATION BUILDING; PO BOX 7, COLLINSVILLE, VA 24078 (for postal) or 3300 KINGS MOUNTAIN RD, MARTINSVILLE, VA 24112 (for Ups or FedEx). EACH BIDDER SHALL SUBMIT HIS BID IN A SEALED ENVELOPE AND MARK OUTSIDE OF ENVELOPE WITH COMPANY NAME, SUBJECT, BID #16-111412-2995 AND CLOSING DATE OF BID. THE COUNTY SHALL NOT ACCEPT ANY MONETARY MODIFICATIONS TO THE BID, WHICH ARE WRITTEN ON THE OUTSIDE OF BID ENVELOPE. FACSIMILE AND/OR ELECTRONIC BIDS/PROPOSALS WILL NOT BE ACCEPTED.

WITHDRAWAL OF BID DUE TO ERROR

A BIDDER FOR A PUBLIC CONSTRUCTION CONTRACT, OTHER THAN A CONTRACT FOR CONSTRUCTION OR MAINTENANCE OF PUBLIC HIGHWAYS, MAY WITHDRAW HIS BID FROM CONSIDERATION IF THE BID PRICE WAS SUBSTANTIALLY LOWER THAN THE OTHER BIDS DUE SOLELY TO A MISTAKE THEREIN, PROVIDED THE BID WAS SUBMITTED IN GOOD FAITH, AND THE MISTAKE WAS A CLERICAL MISTAKE AS OPPOSED TO A JUDGMENT MISTAKE, AND WAS ACTUALLY DUE TO AN UNINTENTIONAL ARITHMETIC ERROR OR UNINTENTIONAL OMISSION OF A QUANTITY OF WORK, LABOR OR MATERIAL MADE DIRECTLY IN THE COMPILATION OF A BID, WHICH UNINTENTIONAL ARITHMETIC ERROR OR UNINTENTIONAL OMISSION CAN BE CLEARLY SHOWN BY OBJECTIVE EVIDENCE DRAWN FROM INSPECTION OF ORIGINAL WORK PAPERS, DOCUMENTS AND MATERIALS USED IN THE PREPARATION OF THE BID SOUGHT TO BE WITHDRAWN. THE BIDDER SHALL GIVE NOTICE IN WRITING OF HIS CLAIM OF RIGHT TO WITHDRAW HIS BID WITHIN TWO (2) BUSINESS DAYS AFTER THE CONCLUSION OF THE BID OPENING PROCEDURE, AND SHALL SUBMIT ORIGINAL WORK PAPERS WITH SUCH NOTICE.

BID #16-111412-2995

IN COMPLIANCE WITH INVITATION FOR **BIDS #16-111412-2995**, AND SUBJECT TO ALL CONDITIONS THEREOF, THE UNDERSIGNED OFFERS AND AGREES TO FURNISH ANY OR ALL OF THE ITEMS UPON WHICH PRICES ARE QUOTED, AT THE PRICE QUOTED FOR EACH ITEM AND DELIVERED AS SPECIFIED.

MY SIGNATURE CERTIFIES THAT THE ACCOMPANYING BID IS NOT THE RESULT OF OR AFFECTED BY, ANY ACT OF COLLUSION WITH ANOTHER PERSON OR COMPANY ENGAGED IN THE SAME LINE OF BUSINESS OR COMMERCE, OR ANY ACT OF FRAUD PUNISHABLE UNDER TITLE 18.2, CHAPTER 12, ARTICLE 1.1 of THE CODE OF VIRGINIA, 1950, AS AMENDED. FURTHERMORE, I UNDERSTAND THAT FRAUDULENT AND COLLUSIVE BIDDING IS A CRIME UNDER THE VIRGINIA GOVERNMENTAL FRAUDS ACT, THE VIRGINIA GOVERNMENT BID RIGGING ACT, THE VIRGINIA ANTITRUST ACT AND FEDERAL LAW AND CAN RESULT IN FINES, PRISON SENTENCES AND CIVIL DAMAGE AWARDS.

I AGREE TO ABIDE BY ALL CONDITIONS OF THIS BID AND CERTIFY THAT I AM AUTHORIZED TO SIGN THIS BID FOR THE BIDDER.

COMPANY NAME _____

ADDRESS _____

SIGNATURE _____

NAME (TYPE OR PRINT) _____

OFFICIAL TITLE _____

DATE _____

TELEPHONE NUMBER _____

FAX NUMBER _____

BIDDERS SHALL REFERENCE THE CONTRACTOR LICENSE REQUIREMENTS OF TITLE 54, CHAPTER 11, OF THE CODE OF VIRGINIA 1950, AS AMENDED AND PROVIDE THE APPROPRIATE VIRGINIA CONTRACTOR NO., IF APPLICABLE BELOW.

LICENSED CLASS A VA CONTRACTOR NO. _____

LICENSED CLASS B VA CONTRACTOR NO. _____

LICENSED CLASS C VA CONTRACTOR NO. _____

**IMPORTANT - READ CAREFULLY BEFORE SUBMITTING BID
COUNTY OF HENRY, VIRGINIA PURCHASING DEPARTMENT
GENERAL TERMS, CONDITIONS, AND INSTRUCTIONS**

1. SUBMISSION AND RECEIPT OF BIDS:

- (a) BIDS, TO RECEIVE CONSIDERATION, MUST BE RECEIVED PRIOR TO THE SPECIFIED TIME AND DATE OF OPENING AS DESIGNATED IN THE INVITATION.
- (b) UNLESS OTHERWISE SPECIFIED, BIDDERS MUST USE THE BID FORM FURNISHED BY THE COUNTY. FAILURE TO DO SO MAY CAUSE BID TO BE REJECTED. REMOVAL OF ANY PART OF THE BID FORM MAY INVALIDATE THE BID.
- (c) ALL BIDS SHALL BE EITHER TYPEWRITTEN OR FILLED IN WITH INK IN ORDER TO BE CONSIDERED. ALSO, ALL BIDS MUST BE SIGNED IN INK IN ORDER TO BE CONSIDERED. BIDS FILLED IN WITH PENCIL WILL BE REJECTED.
- (d) BIDS CONCERNING SEPARATE BID INVITATIONS, MUST NOT BE COMBINED ON THE SAME FORM OR PLACED IN THE SAME ENVELOPE. BIDS SUBMITTED IN VIOLATION OF THIS PROVISION MAY NOT BE CONSIDERED.

2. DELIVERY POINT:

ALL ITEMS SHALL BE DELIVERED F.O.B. DESTINATION, AND DELIVERY COSTS AND CHARGES INCLUDED IN THE BID PRICE.

3. BRAND NAMES:

UNLESS OTHERWISE PROVIDED IN THE INVITATION FOR BID, THE NAME OF A CERTAIN BRAND, MAKE OR MANUFACTURER DOES NOT RESTRICT BIDDERS TO THE SPECIFIC BRAND, MAKE OR MANUFACTURER NAMED; IT CONVEYS THE GENERAL STYLE, TYPE, CHARACTER, AND QUALITY OF THE ARTICLE DESIRED, AND ANY ARTICLE WHICH THE COUNTY IN ITS SOLE DISCRETION DETERMINES TO BE THE EQUAL OF THAT SPECIFIED, CONSIDERING QUALITY, WORKMANSHIP, ECONOMY OF OPERATION, AND SUITABILITY FOR THE PURPOSE INTENDED, SHALL BE ACCEPTED.

4. QUALITY:

ALL MATERIALS USED FOR THE MANUFACTURE OR CONSTRUCTION OF ANY SUPPLIES, MATERIALS, OR EQUIPMENT COVERED BY THIS BID SHALL BE NEW. THE ITEMS BID MUST BE NEW, THE LATEST MODEL, THE BEST QUALITY, AND THE HIGHEST GRADE WORKMANSHIP.

5. CODE OF VA CHAPTER 43 TITLE 2.2-4311: EMPLOYMENT DISCRIMINATION BY CONTRACTOR PROHIBITED; REQUIRED CONTRACT PROVISIONS. SEE VA CODE FOR DETAILED INFORMATION.

GENERAL TERMS, CONDITIONS, AND INSTRUCTIONS

6. BASIS FOR REJECTIONS AND AWARD:

THE COUNTY OF HENRY RESERVES THE RIGHT TO ACCEPT OR REJECT ALL BIDS OR PARTS OF BIDS, TO WAIVE INFORMALITIES AND TECHNICALITIES, AND TO REQUEST REBIDS. THE COUNTY ALSO RESERVES THE RIGHT TO AWARD THE CONTRACT ON SUCH MATERIAL THE COUNTY DEEMS WILL BEST SERVE ITS INTEREST. THE AWARD WILL BE MADE AND POSTED BY THE COUNTY TO THE LOWEST RESPONSIBLE BIDDER WITH THE LOWEST RESPONSIVE BID WHICH IS IN ACCORDANCE WITH THE TERMS, CONDITIONS, AND SPECIFICATIONS OF THE BID AND IS IN CONFORMANCE WITH THE CODE OF THE COUNTY OF HENRY AND THE CODE OF VIRGINIA.

7. INTERPRETATION OF BID AND ADDENDUM:

IF ANY PARTY CONTEMPLATING THE SUBMISSION OF A BID ON THIS INVITATION IS IN DOUBT AS THE TRUE MEANING OF ANY PART OF THE BID, HE SHOULD CONTACT **SEE BID SPECS FOR CONTACT INFO.** ANY RESULTING CHANGE TO THE BID INVITATION DOCUMENT WILL BE MADE ONLY BY WRITTEN ADDENDUM DULY ISSUED TO EACH PARTY RECEIVING A BID INVITATION. THE COUNTY WILL NOT BE RESPONSIBLE FOR ANY CHANGES EXCEPT AS NOTED THROUGH A WRITTEN ADDENDUM OR SO STATED BY CHIEF PURCHASING AGENT FOR HENRY COUNTY. ALL ADDENDUMS MUST BE SIGNED AND RETURNED WITH YOUR BID AND ANY ADDENDUM THAT AFFECTS PRICE, QUALITY, QUANTITY OR DELIVERY SCHEDULE, THAT IS NOT RETURNED, WILL BE REJECTED.

8. RIGHT TO NEGOTIATION:

IF A BID FROM THE LOWEST RESPONSIBLE BIDDER EXCEEDS THE FUNDS AVAILABLE FOR SERVICES AND/OR MATERIALS REQUESTED, THE COUNTY OF HENRY RESERVES THE RIGHT TO NEGOTIATE. SUCH NEGOTIATIONS WITH THE LOWEST RESPONSIBLE BIDDER MAY INVOLVE DISCUSSION OF REDUCTION OF QUALITY, QUANTITY OR OTHER COST SAVING MECHANISMS.

9. REGISTERED SEX OFFENDER:

THE CONTRACTOR SHALL NOT SEND ANY EMPLOYEE OR AGENT WHO IS A REGISTERED SEX OFFENDER TO ANY SCHOOL BUILDING OR SCHOOL PROPERTY. QUARTERLY, THE CONTRACTOR SHALL CHECK THE REGISTRY TO DETERMINE IF THE EMPLOYEE IS REGISTERED.

10. PIGGY BACK CLAUSE: ACCORDING TO THE STATE OF VA PUBLIC PROCUREMENT ACT ANY OTHER STATE, LOCAL OR GOVERNMENT AGENCY MAY USE THIS BID AS A BASIS FOR PROCURING SUCH ITEMS.

11. ADDITIONAL PRODUCTS/SERVICES: THE COUNTY/PSA RESERVES THE RIGHT TO BUY/HIRE FOR ADDITIONAL PRODUCTS/SERVICES OF SIMILARITY FROM AWARDED VENDOR OF THIS CONTRACT WITHOUT GOING THROUGH THE BIDDING PROCESS FOR ONE (1) CALENDAR YEAR FROM THE DATE OF THE NOTICE OF AWARD FROM THIS CONTRACT, UNLESS STATED OTHERWISE WITHIN THIS BID.

12. BONDS:

A. BID BOND- (BID GUARANTEE):

THIS PROJECT **SHALL NOT** REQUIRE A BID BOND TO ACCOMPANY THE BID.

WHEN SUBMITTING A BID BOND TO THE COUNTY/PSA, THE VENDOR SHALL DO SO BY SUBMITTING A BOND UNDERWRITTEN BY A SURETY COMPANY WHICH IS LEGALLY AUTHORIZED TO DO BUSINESS IN VIRGINIA **OR** A CASHIERS/CERTIFIED CHECK. BOTH TYPES OF BID GUARANTEES SHALL BE WORTH 5% OF THE VENDORS OVERALL BID.

B. PERFORMANCE BOND AND PAYMENT BOND:

AFTER AWARD OF CONTRACT, FOR ALL PROJECTS VALUED AT \$100,000 OR MORE, VENDOR SHALL EXECUTE AND SUBMIT BOTH A PERFORMANCE BOND AND A PAYMENT BOND PRIOR TO START OF WORK. EACH BOND SHALL BE CONDITIONED UPON FULL AND COMPLETE PERFORMANCE OF THE CONTRACT, UNDERWRITTEN BY A SURETY COMPANY WHICH IS LEGALLY AUTHORIZED TO DO BUSINESS IN VIRGINIA AND IN THE AMOUNT OF 100% OF THE CONTRACT.

13. LIQUATED DAMAGES:

LIQUATED DAMAGES SHALL NOT APPLY TO THIS BID.

14. ILLEGAL ALIENS:

VENDOR PROMISES THEY WILL NOT HIRE ILLEGAL ALIENS. BY SIGNING THIS BID DOCUMENT THE VENDOR CONFIRMS THIS PROMISE.

15. PERMITS/LICENSES:

VENDORS SHALL BE RESPONSIBLE FOR ACQUIRING ALL THE PROPER PERMITS/LICENSES REQUIRED BY LOCAL AND STATE AUTHORITIES IN CONJUNCTION WITH THIS BID. BID PRICES SHALL INCLUDE THESE FEES AND NO ADDITIONAL COST ARE TO BE ADDED TO THE COUNTY/PSA. BIDDER'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF TITLE 54, CHAPTER 11, OF THE CODE OF VIRGINIA PERTAINING TO REGISTRATION OF CONTRACTORS.

BID #16-111412-2995

THE 2007 SESSION OF THE VIRGINIA GENERAL ASSEMBLY, PASSED THE HB 1707/SB 1346 BILL, EFFECTIVE ON JULY 1, 2007. HENRY COUNTY IS REQUIRING ALL VENDORS TO ABIDE BY THE FOLLOWING NEW LEGISLATION.

HB 1707/SB 1346

PROVIDES THAT AS A CONDITION OF AWARDING A CONTRACT FOR THE PROVISION OF SERVICES THAT REQUIRE THE CONTRACTOR OR HIS EMPLOYEES TO HAVE DIRECT CONTACT WITH STUDENTS ON SCHOOL PROPERTY DURING REGULAR SCHOOL HOURS, THE SCHOOL BOARD MUST REQUIRE THE CONTRACTOR TO PROVIDE CERTIFICATION THAT ALL EMPLOYEES WHO WILL HAVE DIRECT CONTACT WITH STUDENTS HAVE NOT BEEN CONVICTED OF A FELONY OR ANY OFFENSE INVOLVING THE SEXUAL MOLESTATION OR PHYSICAL OR SEXUAL ABUSE OR RAPE OF A CHILD. THE BILL ALSO PROVIDES THAT THE REQUIREMENT BE WAIVED IN EMERGENCY SITUATIONS WHEN IT IS REASONABLY ANTICIPATED THAT THE CONTRACTOR OR HIS EMPLOYEES WILL HAVE NO DIRECT CONTACT WITH STUDENTS.

PLEASE INDICATE APPROPRIATE BOX BELOW.

_____ I AGREE TO ABIDE BY THIS LEGISLATION HB 1707/SB 1346.

_____ THIS LEGISLATION DOES NOT APPLY TO THIS SOLICITATION.

THE AWARDED VENDOR MAY BE REQUIRED TO PROVIDE ADDITIONAL PAPERWORK BUT ONLY A SIGNATURE IS NECESSARY AT THIS TIME.

AUTHORIZED VENDOR SIGNATURE

DATE

COMPANY NAME

PRINTED NAME AND TITLE

Subcontractor Information

Must fill form out completely even if no subcontractors are being used.

You must check appropriate box below and list any subcontractors that will be used for this **BID #16-111412-2995 for ONE OR MORE OPEN CIRCUIT SELF-CONTAINED BREATHING APPARATUS FOR THE HENRY COUNTY SHERIFF'S OFFICE.**

_____ I will be using subcontractors. (See list below)

_____ I may or may not be using subcontractors. Not sure at this time. If you are the awarded vendor, you are responsible for contacting Commissioner of Revenue's Office at (276-634-4691) with subcontractor information. Payment of invoices is contingent upon receiving required information.

_____ I will not be using subcontractors.

1.) Subcontractors Company Name _____

Contact Person _____ Telephone # _____

2.) Subcontractors Company Name _____

Contact Person _____ Telephone # _____

3.) Subcontractors Company Name _____

Contact Person _____ Telephone # _____

4.) Subcontractors Company Name _____

Contact Person _____ Telephone # _____

5.) Subcontractors Company Name _____

Contact Person _____ Telephone # _____

6.) Subcontractors Company Name _____

Contact Person _____ Telephone # _____

Bidders Company Name _____

Bidders Authorized Signature _____ **Date:** _____

Bidders Telephone # _____ **Federal ID #** _____

***Note- Add a separate sheet if you need additional space for subcontractors**

Henry County Sheriff's Office
Scott Health and Safety SWAT-PAK Bid Specifications

General Requirements:

The Henry County Sheriff's Office has standardized to Scott Health and Safety Respiratory Equipment. Therefore, the County will only accept bids for Scott products. Vendors are asked to submit pricing for one (or more) open circuit self-contained breathing apparatus consisting of the following major sub-assemblies: 1) cylinder and valve assembly for storing breathing air under pressure; 2) full face piece assembly with integrated flame retardant hood; 3) an automatic dual path redundant pressure reducing regulator; 4) a removable face piece mounted positive pressure breathing regulator with air-saver switch, tactile low pressure alarm and purge valve; 5) a harness and back frame assembly for supporting the equipment on the body of the wearer; 6) a shoulder strap mounted remote gauge assembly indicating cylinder pressure. Initial order will be for 6 – 9 units.

The unit shall be covered by a warranty providing protection against defects in workmanship or materials. This warranty shall be for a period of eight (8) years on the SCBA, except for the pressure reducer, which shall be covered for a period of fifteen (15) years. The SCBA shall be certified by NIOSH/MSHA as conforming to the Code of Federal Regulations, 42 CFR part 84.

Successful bidder agrees to provide at his own expense a factory trained instructor for such time as the department head shall require for the initial complete instruction in the operation and maintenance of the apparatus. Successful bidder must be a factory-authorized distributor to sell and service the equipment specified herein. The successful bidder shall offer equipment annual maintenance and testing and annual fit testing to be done at the Henry County Sheriff's Office.

Cylinder and Valve Assembly:

- 4500 psig/300 bar Carbon Cylinders

The cylinder shall be in accordance with DOT specifications and have a working pressure of 4500 psig (300 bar). 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 45 in

duration. The 45-minute duration cylinder shall have a water capacity of 418 cubic inches (6.8 liters) and a free gas capacity of 66 SCF (1869 liters).

General Cylinder Requirements:

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 upper seat, thus preventing leakage past the stem. No adjustment shall be necessary during the life of the valve. The cylinder valve outlet shall be a modification of the Compressed Gas Association (CGA) standard threaded connection number 346 for breathing air.

The valve shall be constructed such that damage will not occur if the coupling is over-torqued by hand. 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 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. Each cylinder and valve assembly shall be equipped with a hanger bracket for positive attachment of the assembly to the back frame.

Face piece Assembly:

The full face piece assembly shall fit persons of varying facial shapes and sizes with minimal visual interference. It shall be available in three color-coded sizes and maintain NIOSH/MSHA certification of the apparatus regardless of the size used. The color coded face seal shall be constructed of a blend of natural rubber/EPDM and be secured to the lens by a U-shaped channel frame that is retained to the lens using five fastener assemblies, four of which also serve as attachment points for the head harness. The lens shall be a single, replaceable modified cone configuration constructed of non-shatter type polycarbonate material and be designed to meet the impact and penetration requirements of a face shield as specified in ANSI Z87.1 paragraph 5.2.8.2 shall have a silicone based coating to resist abrasion, chemical attack and meet the requirements of NFPA 1981, 1997 edition for lens abrasion. The lens shall be permanently coated to resist fogging.

The face piece 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 or adapter for connecting air purifying canisters and cartridges. Multi-directional voicemitters shall be lens mounted on both sides of the face piece lens and ducted directly into an integral silicone nose cup to enhance voice transmission. The voicemitters, ducts and nosecup shall be easily removable without the use of tools.

The head harness shall be a four-point suspension made in the fashion of a net hood to minimize interference between securing the face piece and wearing head protection and shall be constructed of Kevlar material. Two flame resistant elastic straps, attached to the lens in four locations, shall provide adjustment for proper face sealing. A four-point attachment rubber head harness shall also be available. A flame resistant hood colored black will attach to the face piece with snap fasteners and cover the head harness during use.

Pressure Reducer:

The pressure reducing regulator shall be mounted on the back frame and coupled to the cylinder valve through a short length of internally armored high pressure hose with a hand coupling for engagement and sealing with the cylinder valve outlet. In lieu of a manual by-pass, the pressure-reducing regulator shall include a back-up 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 lowpressure alarm device in the face piece mounted regulator. This warning shall denote a switch from the primary reducing valve to the back-up reducing valve whether from low cylinder supply pressure or malfunction of the primary reducing valve.

A press-to-test valve shall be included to allow testing of the back-up reducing valve without disassembly of the pressure-reducing regulator. The pressure-reducing regulator shall have extended temperature range dynamic O-ring seals composed of fluorosilicone elastomer. The outlet manifold of the pressure reducing regulator shall have incorporated a reseatable over-pressurization relief valve which shall prevent the attached low pressure hose and face piece mounted breathing regulator from being subjected to high pressure. An optional outlet manifold shall also have a provision for attachment of an airline supply hose for extended duration use while reserving cylinder supply for egress. The optional outlet manifold shall also contain a second port capable of being fitted with an

auxiliary supply hose to support a second breathing regulator for the purpose of rescue only. The auxiliary hose shall be located on the primary wearer's right shoulder terminated in a black anodized female quick connect fitting which shall be easily connected and disconnected by trained individuals with a gloved hand or in low light conditions. The coupling shall also be guarded against inadvertent disconnect during use of the equipment. An optional supply hose consisting of one male quick disconnect and one black anodized female quick disconnect will be carried in a black pouch of the back frame assembly waist belt. When operated in this mode, supplying two breathing regulators, the primary wearer's pressure reducer shall be capable of simultaneously supplying each regulator with flow of at least 200 liters per minute while maintaining positive pressure in the respective facepieces.

Face piece Mounted Positive Pressure Regulator:

The face piece mounted positive pressure breathing regulator shall supply and maintain air to the face piece to satisfy the needs of the user at a pressure greater than atmospheric by no more than 1.5 inches (38mm) of water pressure. The breathing regulator shall maintain this positive pressure during flows up to 500 standard liters per minute. The regulator shall also meet or exceed the dynamic flow requirement of remaining positive while supplying a minute volume of 160 liters.

The breathing regulator shall have a low pressure hose which shall be threaded through the left shoulder strap and couple to the pressure reducing regulator mounted on the back frame. The regulator shall have a black quick connect coupling in line for use with option outlet manifold and accessory hose or removal of the regulator. The quick connect coupling shall be easily connected and disconnected by trained individuals with a gloved hand or in low light conditions. The coupling shall be guarded against inadvertent disconnect during use of the equipment. The low-pressure hose shall be equipped with swivel attachments at both ends.

The breathing regulator outlet port shall be configured as a the male half of a quarter (1/4) turn coupling which mates to the face piece and shall be equipped with a doughnut shaped gasket which provides seal against the mating surface of the face piece. The regulator cover shall be fabricated of flame resistant, high impact plastic. The breathing regulator shall also have an integral low pressure alarm device, which shall combine an audible alarm with simultaneous vibration of

the face piece. This alarm device shall indicate either a low cylinder condition or primary first stage failure. The breathing regulator shall have a demand valve to deliver air to the users, activated by a diaphragm responsive to respiration. The demand valve shall use an extended temperature range dynamic O-ring seal composed of fluorosilicone elastomer. The diaphragm shall include the system exhalation valve and shall be constructed of high strength silicone elastomer.

A purge valve shall be situated at the inlet of the breathing regulator and shall be capable of delivering airflow between 125 and 225 standard liters per minute. The breathing regulator shall be arranged to direct incoming air over the inner surface of the face piece lens to assist in defogging. The components of the breathing regulator shall be constructed of materials which are not vulnerable to corrosion. The flame resistant cover shall contain an air saver switch and pressure demand bias mechanism. It shall reactivate and supply air only in the positive pressure mode when the wearer effects a face seal and inhales. The device shall not affect the breathing flow through the system while in operation.

Harness and Back frame Assembly:

A lightweight lumbar support style back frame and harness assembly shall be used to carry the cylinder and valve assembly and pressure reducing regulator assembly. The back frame shall be a solid one-piece black anodized aluminum frame that is contoured to follow the shape of the user's back. The back frame shall include a mounting for the pressure reducer. This mounting shall contain a slide-type bracket permitting positioning of the pressure reducer to accommodate connection to the cylinder valve. The back frame shall include an over-the-counter adjustable tri-slide fixture, a Kevlar strap and double locking latch assembly to secure 30, 45 or 60 minute cylinders. The back frame shall also accommodate a black shroud covering the cylinder and pressure-reducing regulator. The shroud will attach to the back frame using snap fasteners. The harness assembly shall consist of a one size black Kevlar strap. The harness shall include a box stitched construction with no screws or bolts. The harness shall incorporate black anodized parachute-type quick release buckles and shall include black shoulder and hip pads.

Contact:

For questions concerning this bid please contact Steve Eanes at seanes@co.henry.va.us

Bid Sheet

Item:

Price each unit

805454-417 SWAT PAK FR 4.5, w/EBSS/Case

804722-01 Cyl & VLV Assy, Carb, 45 min, 4500

Options:

Annual maintenance & testing

Annual mask fit testing

Vendor: _____

Date: _____

Authorized Signature: _____

Print Name: _____