

321 South Buesching Road Lake Zurich, Illinois 60047

> (847) 540-5070 LakeZurich.org

At the Heart of Community

#### **MEMORANDUM**

Date:

April 13, 2020

To:

Ray Keller, Village Manager

From:

Mickey Wenzel, Division Chief Training/Safety

CC:

John J. Malcolm, Fire Chief

Subject:

Self-Contained Breathing Apparatus

**Issue:** The Fire Department purchased its current self-contained breathing apparatus (SCBA) in August of 2006. In August of 2021, these SCBA will be 15 years old, the useful life span for SCBA. The fire department applied for and was awarded an Assistance to Firefighters Grant (AFG) in the amount of \$312,900.00 to replace our current SCBA's. The FY 2020 village budget has \$417,000.00 allocated toward the replacement of SCBA. The requested purchase is consistent with the following Goals and Objectives of the Strategic Plan.

#### Goal # 1 Fiscal Sustainability

• F – Continue Organizational Analysis to Increase Efficiencies

#### Goal # 4 Service Sustainability

• B – Develop a High-Performance Organization

**Analysis:** The Fire Department SCBA Committee contacted representatives for Honeywell, Draeger, Interspiro, MSA & Scott to evaluate their products and received responses from Interspiro, MSA, and Scott. The units were then evaluated by fire department personnel under simulated working conditions. Draeger and Honeywell did not provide SCBA's for evaluation. The department developed and published a specification that went out to bid. On February 3, 2020, three bids were received from Interspiro's - S9HP SCBA, MSA's - G1 SCBA, and Scott's - Air Pak X3 Pro SCBA.

Conway Shield Inc. submitted the Interspiro S9HP SCBA bid for \$317,785.00. The Interspiro S9HP SCBA is not available in 5,500 PSI, a minimum requirement of the SCBA specification.

Air One Equipment Inc. submitted the MSA G1 SCBA bid for \$324,752.00. The MSA G1 SCBA was compliant with all bid specifications and NFPA Standards.

Municipal Emergency Services (MES) submitted the Scott Air Pak X3 SCBA bid for \$357,679.24. The Scott X3 SCBA was compliant with all bid specifications and NFPA Standards.

	MSA G1	Scott X3
Purchase Cost	\$324,752.00	\$357,679.24
Members Rating of Packs	2 <sup>nd</sup>	1 <sup>st</sup>
Members Training Needed	Training required	Similar operation to current SCBA's
Ease of Daily Checks	Yes	Yes
Removable Harness for Laundering	Yes	Yes
Warranty	15 year	Lifetime (As long as you own it)
Warranty covers normal wear items	No	Yes
Electronic Voice Amplification	Yes	Meets NFPA Standard Without
Adjustable Lumbar Support	Yes	No
Batteries	Rechargeable Battery	6 AA Batteries
Make in House Repairs	No	Yes
Cylinder Protection Sleeves	Yes	Yes
Pinched 2 <sup>nd</sup> stage hose stopped-flow	Yes	No
Redundant 1st Stage Regulator	No	Yes

The MSA G1 SCBA and Scott X3 SCBA were both found to be solid SCBA's with many good features. We then contacted the Wheeling, Rockford, Grayslake, and Richmond Fire Departments who currently use or recently switched to the MSA G1 SCBA. We also contacted the Arlington Heights and Palatine Rural Fire Departments; both currently use the Scott X3 SCBA. Both departments were happy with the Scott X3 SCBA.

Wheeling Fire Department has used MSA SCBA and did not report any issues with them. Rockford Fire Department did not reply to our request for information. Grayslake and Richmond

Fire Departments stated they were not happy with the MSA G1 SCBA. One issue reported was the poor performance of the rechargeable battery packs, which did not perform as indicated by Air One between charges. Another concern was several SCBA that continually show error messages which require service. Grayslake uses Air One to service their SCBA; they are consistently sending their SCBA for service, leaving them unavailable for use. MSA allows members of the fire department training on completing repairs and annual flow testing. When asked to clarify what the fire department can repair, the answer from the MSA representative was vague, and they did not answer the question. Scott allows training personnel to make all repairs to Scott SCBAs. If MSA does not, this will increase the cost of ownership of the MSA G1 SCBA. Also, we asked both Air One and MES clarification questions on their ability to convert our current fill station to 5,500 PSI. Air One was vague on their ability to do so, while MES stated they could make the conversion. The MSA warranty is for 15 years and covers all defective parts. The Scott warranty is for as long as you own the SCBA and covers defective parts <u>and</u> normal wear and tear. Having normal wear and tear items covered will result in lower maintenance costs over the life of the Scott X3 SCBA.

The overhaul schedule for both the MSA G1 SCBA and Scott X3 SCBA is 15 years. The Scott X3 SCBA has a redundant system built into the 1st stage regulator that the MSA G1 SCBA does not. This redundant system provides air to the user even if the 1st stage primary regulator fails. The 2nd stage regulator hose on the MSA G1 is easy to kink during use, which results in the stopping or restricting of the flow of air to the user. This significant safety issue reduces the confidence the users have in this vital piece of safety equipment. While this is also possible, this could happen with the Scott X3 SCBA; the hose is much stiffer, making it unlikely that the 2nd stage hose is kinking during use. The Scott X3 SCBA has a lower backpack and mask profile than the MSA G1 SCBA, which allows movement through and past obstruction easier and improves our safety, as demonstrated during our evaluations. The Scott SCBA mask offers better peripheral vision than the MSA SCBA mask, also increasing the user's safety. Finally, we've received a report from the Hinsdale Fire Department that outlined their evaluation of the MSA G1 SCBA & Scott X3 SCBA, report attached for review. Excerpt conclusion, page 28.

"Of the 20 operational evaluations conducted as well as the interviews with surrounding departments, the main reasons for choosing the Scott SCBAs can be summarized into 3 critical factors; safety, operability, and maintenance cost."

**Recommendation:** The FY 2020 budget has \$417,000.00 allocated for the replacement of the Fire Department's SCBA. The Fire Department is requesting a contract be awarded to Municipal Emergency Services for \$357,679.24 for the replacement of 45 SCBA with the Scott Air Pak X3 SCBA, 4 Rapid Intervention Packs, 1 Posi-check test bench, and associated materials. The AFG award of \$312,900.00 will offset the majority of this expense. The total funds used for this purchase after applying the grant is \$44,779.24 split between the Village \$24,628.58 and Fire District \$20,150.66 based on the FY 2018 True-up worksheet.

# SELF-CONTAINED BREATHING APPARATUS (SCBA) BID PACKAGE FORM LAKE ZURICH FIRE DEPARTMENT

The undersigned vendor hereby proposes to furnish new, commercially produced Self-Contained Breathing Apparatus (SCBA) in accordance with the Lake Zurich Fire Department's specifications and the vendor/manufacturer's detailed specifications incorporated herein. Any exceptions to the Lake Zurich Fire Department's specifications are listed on the following exception page(s).

The undersigned agrees that the signing and delivery of this bid package represent the bidder's acceptance of the terms and conditions of the attached specifications and provisions and, if awarded this contract, will constitute the agreement between the parties.

SCBA Manufacturer:

2MP 445 . 1. C.1	COLES Minimal & many Common loss
3 M Scott Fine & Safety Company Name	(MES) Municipal Emergency Services, Inc. Company Name
4320 Goldmine Road	124 East First Street
Address	Address
Monroe, NC 28110	Deer Creek, 11 61733
City, State, Zip Code	City, State, Zip Code
(704) 291-8300	(800) 322-8 402
Telephone Number	Telephone Number
SCBA	+ accessories\$3 41,787,84 QT1338989
Optional Equipment & Services +	6 be included + 15,891,40 QT 1339640
Total Project Cost	\$ 357,679.24

Authorized Agent (Vendor):

Delivery of the specified equipment is to be made within 45 calendar days from the acceptance of the bid by the Lake Zurich Fire Department.

\* If custom monogrammed cylinders are chosen it could be up to 12week Failure to deliver all equipment in the time quoted above, without the expressed permission of the purchaser, will constitute a breach of contract and said agreement might be voided.

Mfr. Reference:

Centers for Disease Control and Prevention (CDC)

National Institute for Occupational Safety and Health (NIOSH) National Personal Protective Technology Leboratory (NPPTL) 626 Cochrans Mill Road Pittsburgh, PA 15236-9070 Phone: 412-386-4000 Fax: 412-386-4051 September 30, 2019

Mr. Klaus Wilkens
3M Scott Fire & Safety
Certification and Regulation Engineer
4320 Goldmine Road
Monroe, NC 28110

STTXP1806CBRN

Dear Mr. Wilkens:

The National Institute for Occupational Safety and Health (NIOSH) have reviewed your request referenced above and accepted October 31, 2018, seeking 32 new approvals for the model Air Pak X3 Pro, open-circuit, pressure-demand, entry and escape, CBRN, self-contained breathing apparatus (SCBA) for chemical, biological, radiological, and nuclear (CBRN) protection. The respirator configurations are identified on assembly matrix, file name

These respirators have met the NIOSH requirements of Title 42, Code of Federal Regulations, Part 84 (42 CFR 84) under TN-22574, identified by approval numbers TC-13F-0972 through TC-13F-1003, listed on assembly matrix, file name

This request is granted. The approval numbers shown in the following table have been assigned for the 32 new respirator configurations for the model Air Pak X3 Pro, open-circuit, pressure-demand, entry and escape, CBRN, self-contained breathing apparatus (SCBA) for CBRN protection, as defined on the assembly matrix, file name

Approvals are granted only for documentation written in the English language. It is the manufacturer's responsibility to correctly translate materials desired to be produced in languages other than English.

Approval Number	Model	Description	Protection <sup>1</sup>
TC-13F-0972CBRN	Air Pak X3 Pro	30 MIN 2216 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0973CBRN	Air Pak X3 Pro	30 MIN 2216 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0974CBRN	Air Pak X3 Pro	30 MIN 4500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0975CBRN	Air Pak X3 Pro	30 MIN 4500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0976CBRN	Air Pak X3 Pro	45 MIN 4500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0977CBRN	Air Pak X3 Pro	45 MIN 4500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0978CBRN	Air Pak X3 Pro	60 MIN 4500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0979CBRN	Air Pak X3 Pro	60 MIN 4500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0980CBRN	Air Pak X3 Pro	30 MIN 5500 PSIG	SC/PD/CBRN/EOSTI-33

U1			
TC-13F-0981CBRN	Air Pak X3 Pro	30 MIN 5500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0982CBRN	Air Pak X3 Pro	45 MIN 5500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0983CBRN	Air Pak X3 Pro	45 MIN 5500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0984CBRN	Air Pak X3 Pro	60 MIN 5500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0985CBRN	Air Pak X3 Pro	60 MIN 5500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0986CBRN	Air Pak X3 Pro	75 MIN 5500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0987CBRN	Air Pak X3 Pro	75 MIN 5500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0988CBRN	Air Pak X3 Pro	30 MIN 2216 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0989CBRN	Air Pak X3 Pro	30 MIN 2216 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0990CBRN	Air Pak X3 Pro	30 MIN 4500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0991CBRN	Air Pak X3 Pro	30 MIN 4500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0992CBRN	Air Pak X3 Pro	45 MIN 4500 PSIG	SC/PD/CBRN/EQSTI-33
TC-13F-0993CBRN	Air Pak X3 Pro	45 MIN 4500 PSIG	SC/PD/CBRN/EQSTI-33
TC-13F-0994CBRN	Air Pak X3 Pro	60 MIN 4500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0995CBRN	Air Pak X3 Pro	60 MIN 4500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0996CBRN	Air Pak X3 Pro	30 MIN 5500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0997CBRN	Air Pak X3 Pro	30 MIN 5500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0998CBRN	Air Pak X3 Pro	45 MIN 5500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-0999CBRN	Air Pak X3 Pro	45 MIN 5500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-1000CBRN	Air Pak X3 Pro	60 MIN 5500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-1001CBRN	Air Pak X3 Pro	60 MIN 5500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-1002CBRN	Air Pak X3 Pro	75 MIN 5500 PSIG	SC/PD/CBRN/EOSTI-33
TC-13F-1003CBRN	Air Pak X3 Pro	75 MIN 5500 PSIG	SC/PD/CBRN/EOSTI-33
ten and a company of the company of	MATERIAL STREET, STREE	A CONTRACTOR OF THE PROPERTY OF THE PARTY.	

Protection - Codes are defined on the approval labels.

The configurations identified under TC-13F-0972CBRN through TC-13F-1003CBRN have met the NIOSH requirements for CBRN protection under the provisions of 42 CFR 84, and the NIOSH Letter to All Respirator Manufacturers, dated December 28, 2001.

Additionally, the Air Pak X3 Pro respirator configurations have been evaluated by the Safety Equipment Institute (SEI) as a configuration meeting the requirements of NFPA 1981, Standard on Open-Circuit Self-Contained Breathing Apparatus for Emergency Services, 2018 Edition (see attached letter).

The final respirator approval labels are included as attachments to this letter. The cautions and limitations which apply to these approvals are on the approval labels. Only those assemblies affected by this request, or where new approval numbers are assigned, apply to this approval action. Production approval labels cannot include information on unapproved configurations.

The approved assembles consist of the parts as listed on the approval labels and the assembly matrix. Parts are to be marked with the numbers indicated on the approval label in a legible and permanent manner (marking cannot be removed without evidence of its previous presence).

This certificate of approval is not an endorsement of the respirators by NIOSH, and such endorsement shall not be stated or implied in advertisements or other publicity. However, you may publicize the fact that these respirators have met the requirements of 42 CFR Part 84.

No changes may be made to any respirators and accompanying documentation without prior written approval of NIOSH. Requests for changes must be submitted to NIOSH and a modification of this approval must be granted before changes are made.

Sincerely,

effrey Peterson

Chief, Conformity Verification and Standards Development Branch

Enclosures



# NFPA 1981/1982, 2018 COMPLIANT AIR-PAKT SCBA

3M™ Scott™ Fire & Safety (3M SCOTT) warrants NFPA 1981/1982, 2018 compliant Air-Pak SCBA, including facepiece and cylinder (THE PRODUCTS) to be free from defects in workmanship and materials for as long as THE PRODUCTS are owned by the original end-user purchaser. This warranty applies to all components of THE PRODUCTS including all accessories and optional equipment purchased and supplied at the time of original sale of THE PRODUCTS, except voice communication devices and accessories, in-mask thermal imaging devices, integrated self-rescue belts, consumable supplies, and carrying cases.

3M SCOTT warrants all voice communication devices and in-mask thermal imaging devices to be free from defects in workmanship and materials for a period of five (5) years from the date of original manufacture by 3M SCOTT.

3M SCOTT warrants all integrated self-rescue belts, paddle PTT accessories, ring PTT accessories, throat mic accessories, command communication headset accessories, programmer modules, consumable supplies, and carrying cases to be free from defects in workmanship and materials for a period of one (1) year from the date of original manufacture by 3M SCOTT.

3M SCOTT's obligation under this warranty is limited to replacing or repairing (at 3M SCOTT's option) THE PRODUCTS or components shown to be defective in either workmanship or materials.

Only personnel of 3M SCOTT or, when directed by 3M SCOTT, authorized 3M SCOTT service providers are authorized to perform warranty obligations. This warranty does not apply to defects or damage caused by any repairs of or alterations to THE PRODUCTS made by owner or any third party unless expressly permitted by 3M SCOTT product manuals or by written authorization from 3M SCOTT. To obtain performance under this warranty, and as a condition precedent to any duty of 3M SCOTT, the purchaser must return such products to 3M SCOTT, a 3M SCOTT authorized distributor or a 3M SCOTT authorized service center. Any product returned to 3M SCOTT shall be sent to "3M SCOTT FIRE & SAFETY" (Attn: Warranty Claim Dept.), 4320 Goldmine Road, Monroe, NC 28110.

This warranty does not apply to any malfunction of or damage to THE PRODUCTS resulting from accident, misuse or abuse.

THIS WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN ADDITION, 3M SCOTT EXPRESSLY DISCLAIMS ANY LIABILITY FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES IN ANY WAY CONNECTED WITH THE SALE OR USE OF 3M SCOTT PRODUCTS, AND NO OTHER FIRM OR PERSON IS AUTHORIZED TO ASSUME ANY SUCH LIABILITY. THIS WARRANTY APPLIES ONLY TO THE ORIGINAL END-USER PURCHASER AND IS NON-TRANSFERABLE.



## I SCOTT

Fire & Safety

#### FOR IMMEDIATE RELEASE

Media Contact:
Jason Cannon
704.291.8411
jrcannon@mmm.com

3M™ Scott™ Fire & Safety Announces New Warranty for NFPA 2018 Air-Pak™ X3 Pro SCBA

Monroe, NC (September 6, 2019) – 3M<sup>™</sup> Scott<sup>™</sup> Fire & Safety, a global leader in respiratory protection and imaging solutions, announces a new warranty for its latest Air-Pak X3 Pro SCBA, compliant to the NFFA 1981, 2018 Edition standard (approvals pending).

The Air-Pak X3 Pro is built on a foundation of proven, trusted performance, providing the same reliability and durability that 3M Scott builds into all its NFPA Air-Pak SCBA products. It is this relentless pursuit to deliver high quality products that allows 3M Scott to remain committed to its customers. The latest example of this commitment is the new As Long As You Own It — Air-Pak SCBA Warranty. Fire departments purchasing new Air-Pak X3 Pro SCBA, compliant to the NFPA 1981, 2018 Edition standard, will receive a lifetime warranty for as long as they own the product.

"With the 'As Long As You Own It — Air-Pak SCBA Warranty', customers will have peace of mind knowing that their most important investment is backed for their lifetime ownership of the product," said Jason Cannon, U.S. fire marketing manager for 3M Scott.

The new As Long As You Own It – Air-Pak SCBA Warranty is effective on all Air-Pak X3 Pro SCBA shipped compliant to the NFPA 1981, 2018 Edition standard. This bumper-to-bumper warranty includes all standard components of the SCBA and is designed to help simplify budget planning for volunteer and municipal fire departments. With no mandatory overhaul schedule and no forced parts replacement, the As Long As You Own It – Air-Pak SCBA Warranty will help to minimize annual maintenance costs.

"Fire departments should not have to worry about crunching numbers to help manage maintenance costs to wards the end of the SCBA's life cycle," said John Dinning, global business manager, firefighter solutions. "This new warranty reinforces our commitment to the customer and further reduces their lifetime cost of ownership for the Air-Pak X3 Pro SCBA."

See warranty statement included with product for full detail.

#### About 3M

At 3M, we apply science in collaborative ways to improve lives daily. With \$32 billion in sales, our 91,000 employees connect with customers all around the world. Learn more about 3M's creative solutions to the world's problems at www.3M.com or on Twitter @3M or @3MNews.

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124 East First Street Deer Creek, IL 61733

# Quote

Page 1 of 2

Date
Quote #
Expires

02/21/2020 QT1338989 03/22/2020

Sales Rep

Arendarczyk, Thomas J

PO#

Shipping Method

FedEx Ground

Control of the Programme and

Bill To

LAKE ZURICH FIRE RESCUE EMAIL INVOICES TO AP@LAKEZURICH.ORG Ship To DC MICHAEL WENZEL LAKE ZURICH FIRE RESCUE #1 321 S BUESCHING RD LAKE ZURICH IL 60047-2535 United States

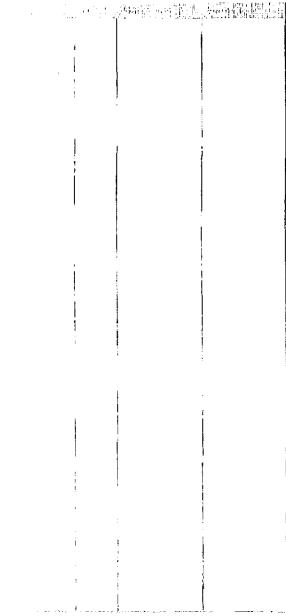
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X8915025305304	<b>,</b> , ,		Air-Pak X3 Pro SCBA (2018 Edition) with Snap-Change Cylinder Connection, 5.5, Standard Harness with Parachute Buckles, Standard Belt with No Escape Rope, E-Z Flo Regulator with Quick Connect Hose (Rectus fittings), Universal EBSS Accessory Hose, No Airline Connection, No Spare Harness Kit, Pak-Tracker, No Case, Packaged 2 SCBA Per Box (Black)	44	5,603.28	246,544.32
X8915025305305	3	i	Air-Pak X3 Pro SCBA (2018 Edition) with Snap-Change Cylinder Connection, 5.5, Standard Harness with Parachute Buckles, Standard Belt with No Escape Rope, E-Z Flo Regulator with Quick Connect Hose (Rectus fittings), Universal EBSS Accessory Hose, No Airline Connection, No Spare Harness Kit, Pak-Tracker, No Case, Packaged 1 SCBA Per Box (Black)	1	5,603.28	5,603.28
200967-01			CYL&VALV,QD,CARB,30/5500 ASSY	45 j	905.06	40,727.70
200967-01			CYL&VALV,QD,CARB,30/5500 ASSY	45	0.00	0.00
201215-22			AV3000 HT with Kevlar lining and 4-strap harness-Red, Medium	60 \	287.78	15,466.80
940IM-RD			SCBA MASK BAG (IMPORTED) RED R&B FABRICATIONS	60	12.00	720.00
200954-12	į		RIT-PAK III ASSY, 4500 PSI	4 ,	2,798.61	11,194.44
804722-01	!   		CYL&VLV ASSY,CARB,45MIN,4500 PSI	4	988.78	3,955.12
200973-01			CYL&VALV,QD,CARB,60/5500 ASSY	1 4	1,191,67	4,766.68
TSI, INC	8025-20	ļ	8025-20 Custom TSI, INC FIT TEST ADAPTER KIT-SCOTT AV-3000	1	220.00	220.00
i 201336-01			KIT, SCOTT POSI3 USB 5500 ASSY	1	10,390.00	10,390.00
200174-01		1	SERVICE HOSE ASSY *SC ONLY	1	213.00	213.00
201146-02			ACCESSORY HOSE, POSI-CHEK 3,QD	. 1	50.80	50.80
31002958	F		HP PLUG, #4 HEX HD WITH O-RING	1	3.00	3.00
31003035	•		MANIFOLD,HI PRESSURE,4500 PSI	1 1	992.00	992.00
804335-17			HOSE & SCKT ASSY	1	100.00	100.00
M-36		 	USB Software Change/Rpl	i i	54.10	54.10
804594-01			MASK HOOK ASSEMBLY	45	17.48	786.60 /
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### Quote

Page 2 of 2 Date Quote #

02/21/2020 QT1338989



Subtotal Shipping Cost (FedEx Ground) Total 341,**787.84** 0.00

\$341,787.84

This Quotation is subject to any applicable sales tax and shipping & handling charges that may apply. Tax and shipping charges are considered estimated and will be recalculated at the time of shipment to ensure they take into account the most current local tax information.

All returns must be processed with a 30 days of receipt and require a return authorization number and are subject to a restocking fee.

Custom orders are not returnable, Effective tax rate will be applicable at the time of invoice.



#### Compliances:

All SCBA and accessories 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 45-minute rated service life and compliant with all requirements of the National Fire Protection Association (NFPA) 1981, Standard on Open-Circuit Self Contained Breathing Apparatus (SCBA) for Emergency Services, 2019 edition and NFPA 1982, Standard on Personal Safety Alert Safety Systems (PASS), 2018 edition.

#### **Detailed Specification:**

The following represents the Department's minimum requirements for the purchase of a Self-Contained Breathing Apparatus (SCBA). Any alternative products offered must meet or exceed these requirements. Vendors interested in proposing alternative product(s) shall submit detailed documentation on the proposed alternative product(s) with their bid package submittal. The Fire Department will have the final decision as to whether an alternative product(s) is acceptable.

#### **Delivery and Documentation:**

The order is to be shipped to the Lake Zurich Fire Department, 321 S Buesching Rd, Lake Zurich, IL 60047, with the vendor paying all shipping costs. The order is to be delivered in entirety as one package on the same date – the Fire Department will not accept partial shipments. Delivery must be during the Department regular office hours of Monday – Friday between 8:00 am - 4:00 pm

Documentation to be supplied at the time of delivery includes a quality assurance test report for each SCBA delivered and four (4) copies of the following:

- User manual for each component.
- Care and maintenance instructions for each component.
- Warranty for each component.

The Department reserves the right to inspect any and all materials, components, equipment, supplies, services, or completed work specified herein. Any of said items not complying with these specifications are subject to rejection at the option of the Department. Any items rejected shall be removed from the premises of the Department and/or replaced at the expense of the vendor.

#### Training:

The vendor shall provide training for all members of the Department. The training shall instruct all Fire Department personnel in operation and maintenance of the SCBA and shall occur for each of the three (3) shift battalions on days mutually agreeable to both the bidder and the Fire Department.

The vendor will also supply training for four (4) persons at the Lake Zurich Fire Department Fire Station One (321 S Buesching Rd, Lake Zurich, IL 60047) by a certified technician of the supplied SCBA units and face pieces. The technician will instruct Lake Zurich Fire Department designated employees on how to perform repairs that can be completed in house. The date will be mutually agreeable to both bidder and the Fire Department but must be within 180 days of receipt of equipment unless extended or waived by the Fire Chief.

#### 

- (45) Forty-five Self-Contained Breathing Apparatus (SCBA) sets each consisting of;
- (1) One complete and fully operational SCBA unit (including battery or batteries if applicable),
- (2) Two 30minute 5500psi carbon fiber cylinders with quick-connect.
- (1) One facepiece mounted 2<sup>nd</sup> stage regulator (MMR) or equivalent with quick-connection to low-pressure section.
- (60) Sixty facepieces with cloth/Kevlar style head harness
- (60) Sixty heavy-duty mask bags
- (4) Four RIT Pack's each consisting of;
- (1) One 45minute 4500psi carbon fiber cylinder & valve (90 degree) 4500psi, CGA.
- (1) One facepiece with cloth/Kevlar style head harness.
- (1) One facepiece mounted 2<sup>nd</sup> stage regulator (MMR) or equivalent with quick connection to low-pressure section.
- (1) One transfill line with the ability to fill packs listed above and neighboring departments.
- (1) RTT Pack bag to carry all above listed and deployment of in an easy manner.
- (4) Four 1-hour 5500psi carbon fiber cylinder with quick-connect for HAZMAT operation.
- $\mathcal{N}/\mathcal{A}$  (5) Five battery charging stations (if applicable).  $\mathcal{N}/\mathcal{A}$
- (5) Five quick-connect adapters for threaded CGA connection filling stations (if applicable or necessary).
  - (1) One Fit test adapter for Protacount Pro+ 8030 fit test machine.
  - (1) One Honeywell Flo-test unit with soft wear and plumbing for bided SCBA .
  - (1) One Tool kit with an assortment of equipment and product specific tools used to service user-serviceable items on the SCBA's and Facepieces in house by LZFD certified technician.

# OPTIONAL EQUIPMENT AND SERVICES TO BE INCLUDED (If applicable or available) See QT /339640

Custom Lake Zurich Fire Department logos monogrammed into each of the Carbon Fiber bottles. The Lake Zurich Fire Department will provide the artwork in a high-quality, electronic format.

The retrofitting or conversion of the current Scott compressor model # AB106651-07, and Scott RevovleAir model 5016 air station to meet 5500psi carbon fiber cylinder filling. Access to the filling station can be made by appointment via email as stated above.

(8) Eight, facepiece mounted 2<sup>nd</sup> Stage regulators (MMR) or equivalent with quick connection to low-pressure section.

N/A (16) Sixteen spare battery packs (if applicable). N/A

<u>SPECIFICATIO</u>	) M	
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	`Compliant" or ``Exception" for each line item
1. WFPA Standar	d: COMPLIANT: EXCEPTION:
Apparatus for emer All SCBA units in th compliant with NFP new 2019 standard	_
2. SCBA Model:	COMPLIANT: EXCEPTION:
	model and facepiece must be the latest and best model offered by displaying must still be in production.
3. Facepiece:	COMPLIANT: EXCEPTION:
order.	fered in multiple sizes, according to fit test results done prior to
a notes a par	lator: COMPLIANT: EXCEPTION:
4. 2. Stage kegi	HATOR: COMPLIANT: FXCEPTION:
The second stage n	ask mounted regulator will be equipped with a "dual action" uick disconnect hose coupling to separate from the low
The second stage n design and have a pressure section.	ask mounted regulator will be equipped with a "dual action"
The second stage in design and have a configuration pressure section.  5. Heads Up Dispose The heads-up displand understandable	ask mounted regulator will be equipped with a "dual action" uick disconnect hose coupling to separate from the low
The second stage in design and have a configuration pressure section.  5. Heads Up Dispose The heads-up displand understandable	ask mounted regulator will be equipped with a "dual action" uick disconnect hose coupling to separate from the low  ay:   COMPLIANT:   EXCEPTION:  ay will consist of a series of different colors and lights easily visible to the wearer giving a visual indication of available air pressure
The second stage in design and have a compressure section.  5. Heads Up Dispose The heads-up displand understandable remaining. The light formula of the second stage of SCBA harness are designed.	ask mounted regulator will be equipped with a "dual action" uick disconnect hose coupling to separate from the low  EXCEPTION:  ay will consist of a series of different colors and lights easily visible to the wearer giving a visual indication of available air pressure to should be located on the second stage regulator or facepiece.  COMPLIANT:  EXCEPTION:  Tovided that securely and adequately hold provided facepieces. Hould have a metal, self-locking clip for attaching to turnout gear and be fleece lined.
The second stage in design and have a compressure section.  5. Heads Up Dispose The heads-up displand understandable remaining. The light formula of the second stage of SCBA harness are designed.	ask mounted regulator will be equipped with a "dual action" uick disconnect hose coupling to separate from the low  ay:  COMPLIANT:  EXCEPTION:  The provided that securely and adequately hold provided facepieces. I hould have a metal, self-locking clip for attaching to turnout gear

8. SCBA Cylinder:	COMPLIANT:		EXCEPTION:
All SCBA cylinders in the bid will be cylinders will have a quick connectstations	pe 30-minute 5500 It fitting and be ad	psi, carbor aptable to	n fiber cylinders. All fit current SCBA fill
9. HAZMAT Cylinder:	COMPLIANT:		EXCEPTION:
All HAZMAT cylinders in the bid w SCBA cylinder specifications	vill be 1-hour 5500	psi, all oth	er specifications should match
10. RIT Pack:	COMPLIANT:		EXCEPTION:
All RIT Packs in the bid will includ degree) 4500psi, CGA. One facepi mounted 2 <sup>nd</sup> stage regulator (MMI section. Transfill line with the abili SCBA to 4500psi. RIT pack appara	lece with cloth/Kev R) or equivalent w ity to fill packs liste	rlar style h ith quick o ed above c	ead harness. Facepiece onnection to low-pressure or neighboring departments
11. Back frame:	COMPLIANT:		EXCEPTION:
The SCBA back frame will be rigid and durability.	and made of com	posite or r	netal material for strength
12. Cylinder Retention:	COMPLIANT:	<u> </u>	EXCEPTION:
All carbon fiber cylinders will be at metal locking band or webbing sty	ttached to the SCB /le strap and comp	A back fra	me with an adjustable tructed lock.
13. Indicator Lights:	COMPLIANT:		EXCEPTION:
All operation indicator lights will be all sides of the SCBA.	e visible to the use	er from all	peripheral angles at
14. Power Supply:	COMPLIANT:	/	EXCEPTION:
For ease of maintenance and trou will be in a central location integra frame. The energy cells will be recame size and type.	ated into the back in chargeable or dispo	frame or nosable, and	nounted on the back If all cells will be of the
15. Waist Belt/Lumbar:	COMPLIANT:		EXCEPTION:
For quick removal, the waist strap With consideration of user comfor			

16.	Shoulder Str	ps: COMPLIANT: Valt. EXCEPTION:
hose ring Item Dep	es and any elect should be prov is. Shoulder stra artment's currer	onld connect to the back frame, not the waist strap. Low-pressure onld wiring will run through the shoulder straps. A hooking "D" led on either the right or left shoulder strap to hook accessory as should be field removable to facilitate laundering in the textractor gear washing machines.
17.	Shoulder Gau	ge: COMPLIANT:
In the pres	ne event of elections sure using the part of the part	ssure gauge/PASS alarm will have an analog pneumatic gauge. ronics failure, the user will have the ability to check air neumatic gauge. <b>No exception.</b>
18.	EBSS Buddy I	reathing: COMPLIANT: EXCEPTION:
the		equipped with an EBSS buddy breather system that is secured to wer harness with a heavy-duty pouch utilizing snaps as a
19.	Warranty:	COMPLIANT: EXCEPTION:
	inimum of a 10- em (except con	vear warranty is required on all components included in the SCBA umables).
20.	Tool Kit:	COMPLIANT: VC EXCEPTION:
spe	cific tools for ce	provided that include various equipment and product tified in-house LZFD members can utilize to make repairs ed components.
21.	Vendor/Serv	ce: COMPLIANT: EXCEPTION:
with Bue stat sha	nin 50 miles of t esching Rd, Lake don as an option	emergency repairs, the Bidder shall have a service or repair facility to Lake Zurich Fire Department Station 1, located at 321 S. Zurich, Illinois 60047. The bidder shall allow an In-house repair for a quick turnaround of SCBA removed from service. The bidder SCBA if SCBA's are removed from service due to manufacturer
22.	Fit Test Adap	er: COMPLIANT: EXCEPTION:
Ada	pter should be p	rovided to connect the face pieces to a Protacount Pro+ 8030  alt = alternative  c = clasification  plo

23.	Cascade	Ada	pter:	COMPL	IANT:		EXCEPTION	l:	N/A: <u>⊬</u>	_
Quic	k-connect	adap	ters to	connect t	hreaded c	ascado	e system fittin	gs to SCB	Α	
	Cascade				COMPLI		_			
ADT	ent fill star 06651-07   unit statio	must	be conv	verted or	model 501 retrofit to	.6 and fill 55	accompanied 100psi carbon	compress fiber cylin	sor Scott m ders using	nodel all

#### OPTIONAL EQUIPMENT (if applicable or available)

A separate itemized list, not included in the cost of the above specification final cost, should be supplied for the following items: recQT/339682

(1) One radio frequency ID tag/ID card reader

(45) Forty-five radio Frequency ID tag/IDcard

Spectacle Kit for Facepiece (price each)

New Cascade system (price) Appointments to view the space for installation can be made via email referenced above

(90) Ninety cylinder protectors for 5500psi 30 minute bottles only (price each)

\*\* (4) Four ability to silence PASS device for HAZMAT

(7) Seven facepiede mounted 2<sup>nd</sup> Stage regulators (MMR) or equivalent with quick connection to low-pressure section (price each)

Amp Bracket for AV-3000 HT (price ea.)

Epic 3 Voice Amp (price ea.)

\* need Sems II pagrammed for each X3 Pro SCBA (perpack)

\*\* must purchase separate X3 Pro SCBA W/SEMS II (Haz Mad) feate

\*\*\* see e-mail response from DC Wenzel on 2/6/20

#### EXCEPTION PAGE

List all exceptions by specification line number and describe the nature of the exception being taken. Use additional pages if necessary.

See Exce	otions / Clarifications	
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1000		
		a Ya
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	CANADA AND AND AND AND AND AND AND AND AN	

#### Exceptions/Clarifications on Lake Zurich Bid

- 6. Mask Bags: Clarification The mask bags do not come with a self-locking clip. The 940IM-RD comes with a D-ring which will work with the accessory hook that 3M Scott offers.
- 7. Voice Amplification Clarification Per e-mail reply from DC Wenzel Epic 3 Voice Amplifier & bracket will be listed with Optional Equipment not included in the cost of the specification on page 12. The voice amplifiers are mask mounted and can be taken on or off, giving the department an option.
- **16. Shoulder Straps:** A D-ring is not available on the X3 Pro SCBA. 3M Scott can offer an accessory hook P/N 804594-01 on either shoulder strap as an alternative which is listed on the bid quote.
- **20.** Tool Kit: Clarification Since Lake Zurich is an in-house service center only basic hand tools are needed for specialist level maintenance. A Specialist Level Tool List will be included with the bid.

# **BID SPECIFICATION**

3M™ Scott™ Air-Pak™ X3 Pro SCBA NFPA 1981/1982, 2018 Edition (Approvals Pending)

#### 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).		[ ا	
The SCBA shall be compliant to the NFPA 1981, 2018 Edition, Standard on Open-Circuit Self-Contained Breathing Apparatus for Emergency Services.	1		
The SCBA shall be compliant to the NFPA 1982, 2018 Edition (if including optional PASS Device), Standard on Personal Alert Safety Systems.	4		
If the SCBA is to include an optional integrated self-rescue device, the device shall be compliant to the NFPA 1983, 2017 Edition, Standard on Life Safety Rope and Equipment for Emergency Services.	R		
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	l i		s Product:	3. 3. 4. 3. 4. 3. 4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Facepiece		Meels	Does Not Meet	Exception
	have a large diameter inlet serving as the female half n coupling which mates with the positive pressure	42		
applications to enable	e approved for use with multiple respiratory the same user to switch from one application to see of tools and without doffing the facepiece.	4	П	
The full facepiece as sizes with minimal vis	sembly shall fit persons of varying facial shapes and sual interference.	Ø		
	sembly shall be available in three sizes marked "S" dium and "L" for large.			
The facepiece sizes scheme.	shall be easily identifiable through a color-coding	Ø	a.m.	
The faceplece asser	nbly, including head harness, shall be latex free.	던		
	s shall have a faceseal that is secured to the lens by a ame that is retained to the lens using two fasteners.	M		
The faceseal shall b	e a single design for enhanced fit and comfort.	6		
The facepiece shall enable quick visual	contain inhalation valves that are readily visible to nspection.	9		
	single, replaceable, modified cone configuration n-shatter type polycarbonate material.	ľ		
	NIDSH 42 CFR part 84, the facepiece shall meet the act requirements, including compliance with ANSI	Ø		
The lens shall have meet the requireme	a coating to resist abrasion and chemical attack and nts of NFPA 1981, for lens abrasion.	Ø		
The lens shall have lens.	an internal anti-fog coating to reduce fogging of the	Ø		
Multi-directional voi facepiece and duct voice transmission.	cemitters shall be mounted on both sides of the ed directly to an integral silicone nosecup to enhance	Ø		
communications or	embly shall be able to incorporate multiple electronic tions (amplification, radio interface, radio direct ffecting NIOSH approvals or NFPA/CBRN approvals	Ø		

•	The facepiece shall enable the installation of communications bracket or either the right or left side.	Ø		
	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.	ď		
0	The head harness shall be available in a five-strap and four-strap configuration.	₽ P		
•	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 or an integrate handle to assist with donning of the facepiece.	9 1		
•	Two flame resistant elastic straps, attached to the faceseal in four locations, shall provide adjustment for proper face sealing.	₽		
M	ask-Mounted Regulator		Product	
		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 us to 500 standard liters per minute.	े प्र		
•	The breathing regulator shall also meet or exceed a dynamic flow requirement of remaining positive while supplying a minute volume of 160 liters.	12/		
			1	
•	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.	Ø		
	snall be threaded through the left shoulder strap to couple to the	E E		
•	An optional breathing regulator with an inline quick connect coupling shall be available 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			
*	An optional breathing regulator with an inline quick connect coupling shall be available 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	Ø		

1				
•	The low-pressure hose shall be equipped with a swivel attachment at the facepiece mounted breathing regulator.	Q/		
•	The breathing regulator shall connect to the facepiece by way of a quarter (1/4) turn coupling.	T I		
•	The user shall hear an audible sound when the breathing regulator is attached correctly to the facepiece.	<b>d</b>		
•	The breathing regulator shall be equipped with a doughnut-shaped gasket which provides a seal against the mating surface of the facepiece.	Ø		
•	The breathing regulator cover shall be fabricated of a flame resistant, high impact plastic.	3		
•	The breathing regulator shall have a demand valve to deliver air to the user, activated by a diaphragm responsive to respiration.	13/		
•	The demand valve shall use an extended temperature range dynamic O- ring seal composed of a fluorosilicone elastomer.	ø'		
•	The diaphragm shall include the system exhalation valve and shall be constructed from a high strength butyl elastomer.	1Z		
•	A purge valve shall be situated at the inlet of the breathing regulator and shall be capable of del vering airflow of between 125 and 225 standard liters per minute.	B		
•	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.	Ø		
•	The components of the breathing regulator shall be constructed of materials that are not vulnerable to corrosion.	Ø		
•	The flame-resistant cover shall contain an air saver switch and pressure demand bias mechanism.			
•	The breathing regulator shall reactivate and supply air only in the positive pressure mode when the wearer affects a face seal and inhales.	IJ		
•	This device shall not affect the breathing flow through the system while in operation.			
	794	. =	Product;	
171	essure Reducer with Snap-Change 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 patented stainless steel quick connect snout for engagement and sealing within the cylinder valve outlet.	Ø		

	The cylinder shall be secured to the pressure-reducing regulator with two pull-rings 180° from each other.	9		
•	A stainless-steel rod shall secure each of the pull-rings to prevent removal of the cylinder while the SCBA is pressurized.	ď		
•	The stainless-steel rooks shall be actuated when the cylinder is opened and when cylinder pressure is above 30 psig.	ď		
•	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.	9		
•	The back-up pressure reducing valve shall also be the means of activating the low-pressure alarm devices in the facepiece-mounted breathing regulator.			I I I I I I I I I I I I I I I I I I I
•	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 functional testing of the back-up reducing valve.			
•	The pressure-reducing regulator shall have extended temperature range dynamic O-ring seals composed of fluorosilicone elastomer.			П
•	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:	
	The state of the s			
E	nd-of-Service Time Indicator (EOSTI)	Meels	44 TO 10 TO	Exception
E	nd-of-Service Time Indicator (EOSTI)  The SCBA shall have two end-of-service time indicators (EOSTI). A tactile alarm and a Heads-Up Display (HUD).	Meets	Öpes Not Meet	Exception
•	The SCBA shall have two end-of-service time indicators (EOSTI). A		44 TO 10 TO	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	Q'	44 TO 10 TO	Exception
6	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	e e	44 TO 10 TO	Exception
5	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 breathing regulator.  This alarm device shall indicate either low cylinder pressure (35% +/- 2%) or a malfunction of the primary pressure-reducing valve (first stage)	(Y)	44 TO 10 TO	Exception

	It shall be mounted in positive pressure brea	the user's field of vision on the facepiece-mounted thing regulator.	9		
	It shall display cylinde 35%.	pressure in increments of 100%, 75%, 50% and	G		
•	The display shall not he pressure.	ave a numerical representation of cylinder	<b>E</b>		
•	At full cylinder pressur illuminated.	e, two green Light Emitting Diodes (LED) shall be			
•	At three-quarter cylind	er pressure, one green LED shall be illuminated.	Ū/		
•	At one-half cylinder proflash at a rate not to ex	essure, one "yellow" LED shall be illuminated and ceed оле (1x) time per second.			
•	At one-third cylinder pr flash at a rate not to ex	essure, one "red" LED shall be illuminated and ceed ten (10x) times per second.	Ū		
•	The HUD shall have a distinguishable from th	ow battery indication that is distinct and e cylinder pressure indications.	9		
	/				
				Product:	
H	arness and Backframe A		Meets	Product:	Exception
•	arness and Backframe A A lightweight, tumbar s	ssembly  upport style backframe and harness assembly he cylinder and valve assembly and the	Meets		Exception
•	A lightweight, lumbar s shall be used to carry t pressure-reducing regu	ssembly  upport style backframe and harness assembly he cylinder and valve assembly and the			Paris .
•	A lightweight, lumbar s shall be used to carry t pressure-reducing regular The backframe shall be aluminum alloy frame to back.	upport style backframe and harness assembly he cylinder and valve assembly and the lator assembly.  a solid, one-piece black powder-coated hat is contoured to follow the shape of the user's clude a shroud to streamline hose and wire zing exposure of the low-pressure hose and	<b>E</b>		1000
•	A lightweight, lumbar s shalf be used to carry t pressure-reducing regular the backframe shall be aluminum alloy frame to back.  The backframe shall in management by minim electronics molded cab	upport style backframe and harness assembly he cylinder and valve assembly and the lator assembly.  a solid, one-piece black powder-coated hat is contoured to follow the shape of the user's clude a shroud to streamline hose and wire zing exposure of the low-pressure hose and le.			1000
•	A lightweight, lumbar s shall be used to carry t pressure-reducing regular to backframe shall be aluminum alloy frame to back.  The backframe shall in management by minim electronics molded cab.  The backframe shall in regulator located at the	upport style backframe and harness assembly ne cylinder and valve assembly and the lator assembly.  a solid, one-piece black powder-coated hat is contoured to follow the shape of the user's clude a shroud to streamline hose and wire zing exposure of the low-pressure hose and le.  clude a mounting for the pressure reducing waist.			Paris .
•	A lightweight, lumber s shall be used to carry t pressure-reducing regular than the backframe shall be aluminum alloy frame to back.  The backframe shall in management by minim electronics molded cab.  The backframe shall in regulator located at the para-aramid strap an 60, or 75-minute cylind	upport style backframe and harness assembly he cylinder and valve assembly and the lator assembly.  a solid, one-piece black powder-coated hat is contoured to follow the shape of the user's clude a shroud to streamline hose and wire zing exposure of the low-pressure hose and le.  clude a mounting for the pressure reducing waist.  lude an over-the-center, adjustable tri-slide fixture, a double-locking latch assembly to secure 30, 45, ers.		Does Not Mast	1000

•	The harness assembly shall include a waist pad and shoulder pads constructed of an outer shell material and incorporating a closed-cell foam design to help minimize water absorption.	<b>1</b>		
•	The harness assembly shall incorporate parachute-type, quick-release buckles with an integrated bail to help secure the webbing. Optional spring (alligator) clips shall also be available.			
•	The harness assembly shall consist of a one size black para-aramid strap with two red stripes along the outer edges and a reflective stripe in the center for enhanced visibility.	Ì		
•	The harness assembly shall include a seat-belt type waist belt attachment.	Ū∕		
	The harness assembly shall include box-stitched construction with no screws or bolts.	ď		
•	The harness assembly shall be removable from the backframe without the use of tools.	4		
4	The harness assembly shall be machine washable to help with exposure reduction.	J.		
•	The harness assembly shall accommodate a waist belt extension.	델		
٠	The waist pad shall be attached to the backframe such that movement by the wearer provides natural articulation. Articulation shall be accomplished without the use of mechanical devices.	D'		
•	The waist pad and belt shall freely wrap around and conform to the wearers' hips.	<b>1</b>		
•	The shoulder harness shall be fitted with a Drag Rescue Loop (DRL) capable of being deployed in an emergency situation to drag a downed firefighter to safety.	Q'		
•	The Drag Rescue Loop (DRL) shall be sewn into the shoulder harness assembly and shall provide a horizontal pull strength of 1000 lbs.	ď		
•	The Drag Rescue Loop (DRL) shall be stored in a manner to prevent accidental snag but maintain accessibility with gloved hands.	e		pt.
•	The shoulder harness shall be attached to the backframe such that the harness presents itself for ease of donning.	<b>☑</b>		
•	The shoulder harness shall include reflective material to enhance the visibility of the wearer in low-light conditions.	3	1. The state of th	

٠	The shoulder harness shall accommodate two distinct positions for a chest strap attachment.			
•	The shoulder harness shall accommodate a mounting clip for attachment of a handheld radio remote speaker microphone.			
			Product:	1 1
Re	ppid 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 2018 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.	B		
ь	The RIC/UAC inlet connection shall be within 4" (4-inches) of the tip of the CGA threads of the cylinder valve.	r		
•	The RIC/UAC shall consist of a connection for attaching a high-pressure air source and a self-resetting rellef valve allowing a higher pressure than that of the SCBA to be attached to the SCBA.	9		
•	The self-resetting relief valve shall be color-coded to identify pressure rating of the SCBA.	[d		
•	The RIC/UAC shall have a check valve to prevent the loss of air when the high-pressure air source has been disconnected.	Q.		
	·	1 1	Product:	1 - 1 - 1 - 1
C	ylinder	Meets	Does Not Meet	Exception
	The cylinder threads shall be straight with an O-ring or quad-ring gasket type seal.	<u>u</u>		
•	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.	E/		
•	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.	4		
•	No adjustment shall be necessary during the life of the valve.	9		
•	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.	9		
4	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.	9	12.54	

1	· I			* * * * * * * * * * * * * * * * * * * *	W
-	If the SCBA is equipped fitting shall have a check	with a Snap-Change Cylinder connection, the fill k valve to prevent flow from the cylinder.	<u> </u>		
•	THE THE PROPERTY OF THE PROPER	with a Snap-Change Cylinder connection, the fill with a dust cover to protect threads from damage aces from being contaminated when not in use.			
•		with a Snap-Change Cylinder connection, the ned to the cylinder valve.			
	lock and lock-out release open service"; 2) an upsi device; 3) a dual reading	I consist of the following: 1) a hand activated spring-loaded, positive action, ratchet type safety a for selecting "lock open service" or "non-lock tream connected frangible disc safety relief a pressure gauge indicating cylinder pressure at order by the pressure at the pressure at order by the pressure at the press	G-		
•	The cylinder valve shall he bumper with a universal	have an RFID tag molded into the elastomeric RFID marking embossment.			
	The RFID tag shall be ca including serial number, rating, life expectancy,	apable of storing product specific information, manufacture date, hydrostatic test date, pressure nd fill logs.	B		
•	The SCBA shall maintain following types of cylinde	n all NIOSH and NFPA standards with any of the ers listed as provided by the SCBA manufacturer.	<b>D</b>		
Ce	rbon-Wrapped			, 1000	
*	The cylinder shall be mai and meet the Transport ( 2216, 4500, or 5500 psig	nufactured in accordance with DOT specifications Canada requirements with working pressures of 3.	B		
•	The cylinder shall be ligh aluminum alloy inner she and an epoxy resin.	atweight, composite type cylinder consisting of an ell, with a total overwrap of carbon fiber, fiberglass			
•	The cylinder shall have a programmed with the follomanufacture date, and hy	a 2D barcode located under the protective gel coat owing information, at a minimum: serial number, ydrostatic test date.	G.	П	
•	The cylinder shall be avail minute duration based on (lpm).	ilable in a 30-minute, 45-minute, 60-minute or 75- n the NIOSH breathing rate of 40 liters per minute	<b>3</b>		
0	The cylinder shall be avail defined by the DOT Spec	illable in an approved 30-year life design as sial Permit 14232.			
W:	arranty		· · · · · · · · · · · · · · · · · · ·	Product	- 000 - 100 <b>100</b> day (1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		A VV	Meets	Does Not Meet	Exception
	The unit shall be covered defects in materials or wo	I by a warranty providing protection against orkmanship.	V		
•	This warranty shall not ha carrying cases.	ave any exclusions other than consumables and			

П				1	
	This warranty shall not	require a registration in order to activate.	ď		
-	This warranty shall not overhaul or recommen	be contingent upon completing mandatory ded preventative maintenance.	<b>B</b>		
ŀ	77.1			Product:	
L	Personal Alert Safety Syst	em with Firefighter Locator	Moets	Does Not Meet	Exception
-	The PASS Device shall Standard on Personal	I be compliant to the NFPA 1982, 2018 Edition Alert Safety Systems.	9		
	Operation of this distre valve of an SCBA char	ss alarm shall be initiated with the opening of the ged cylinder.			
	The system shall featu activated by means of in a pre-alarm mode.	re a "hands-free" re-set capability that may be a slight movement of the SCBA when the system is			
	The system shall opera "AA" batteries.	te from a single power source containing six	<b>a</b> /		
	The battery life of the S hours.	CBA with PASS only shall be no less than 200	¥		
	The system shall have indication of battery sta	a battery check function that provides an LED tus while the SCBA is not pressurized.			
	When the PASS is mare immediately emit a 2.4 receiver.	ually activated, the locator system shall GHz signal to be received by a separate hand-held	<b>D</b> ′		
	When the PASS is acti shall have a ten second received by a separate	vated due to lack of motion, the locator system delay prior to emitting a 2.4 GHz signal to be hand-held receiver.	Œ⁄		
	The system shall utilize "downed" firefighter.	a 2.4 GHz signal to provide the best path to a			
	The locating system sh characters to provide ic.	all be programmable with eight alpha-numeric lentification information.			
	The PASS device shall Module.	contain two components: a Console and a Sensor	I)		
	<ul> <li>When the PASS device through a distinct light display.</li> </ul>	goes into pre-alarm, the user shall be notified attern in the breathing regulator-mounted HUD	<u> </u>		
	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 disp ay 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.	ď		
•	The console shall contain a photo sensing diode that automatically adjust the brightness of the HUD as the ambient lighting conditions change.	ß.		
	The console shall contain an integrated RFID tag.	<b>B</b>		
•	The console shall contain push buttons for user interface.	D/		
٠	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.	IZ		
•	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 breathing regulator-mounted HUD.	9		
•	A green LED shall be i luminated across the gauge face to indicate a cylinder with greater than half cylinder pressure.	ď		
•	A yellow LED shall be lituminated across the gauge face to indicate a cylinder with less than half cylinder pressure.	E)		
•	A red LED shall be illuminated across the gauge face to indicate a cylinder with less than 35% cylinder pressure.			
s	ensor 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.	IJ∕	D	

$\overline{}$		Table 1			
•	The sensor module sh audible alarm and dua	all contain redundant, dual sound emitters for the visual "buddy" indicator lights.	Ū		
•	The sensor module so optimal sound projecti	und emitters shall be oriented in multi-directions for on.	ď		
4	The sensor module so for the following condit System Integrity, PAR	und emitters shall broadcast a unique alarm tone lons: Pre-alarm PASS, Full-alarm PASS, EVAC, and Low-battery.	4		
٠	The visual indicators o green during normal o	n the backframe mounted sensor module shall flash peration.			
٠	The visual indicators s and full-alarm.	nall flash red when the device is in pre-alarm	G/		
	The visual indicators s one-half cylinder press	hall flash orange when the SCBA has reached ure.			
•	The visual indicators s white when the SCBA	hall flash a combination of red, green, and has reached 35% cylinder pressure.	ď		
•	The sensor module sh unit to provide wireless	all have a Bluetooth chip set integral to the connectivity to external devices.	8		
		<u>1</u>			
Or	tional Components			Product	
and the fire	otional Components Versal Emergency Brei	thing Safety System (UEBSS)	Meets	Product; Does Not Meet	Exception
and the fire	Iversal Emergency Breat The optional Universal shall be approved to N Edition.	Emergency Breathing Safety System (UEBSS) OSH 42CFR, Part 84 and NFPA 1981, 2018	Meets		Exception
Ur	The optional Universal shall be approved to N Edition.  The UEBSS shall have a manifold with one eaplug, both of which have	Emergency Breathing Safety System (UEBSS) IOSH 42CFR, Part 84 and NFPA 1981, 2018 one of each of the following requirements; (1) ch of a Rectus female socket and Rectus male e check valves, (2) 40" minimum low-pressure foring the hose, and (4) a dust cap for the	-		Exception
Un.	The optional Universal shall be approved to N Edition.  The UEBSS shall have a manifold with one eaplug, both of which have hose, (3) a pouch for sfemale socket and main the UEBSS shall be p	Emergency Breathing Safety System (UEBSS) IOSH 42CFR, Part 84 and NFPA 1981, 2018 one of each of the following requirements; (1) ch of a Rectus female socket and Rectus male e check valves, (2) 40" minimum low-pressure foring the hose, and (4) a dust cap for the	9		
•	The optional Universal shall be approved to N Edition.  The UEBSS shall have a manifold with one eaplug, both of which have hose, (3) a pouch for stemale socket and mai.	Emergency Breathing Safety System (UEBSS) IOSH 42CFR, Part 84 and NFPA 1981, 2018 one of each of the following requirements; (1) ch of a Rectus female socket and Rectus male e check valves, (2) 40° minimum low-pressure foring the hose, and (4) a dust cap for the e plug. ositioned on the wearer's right side and shall be			
•	The optional Universal shall be approved to N Edition.  The UEBSS shall have a manifold with one eaplug, both of which have hose, (3) a pouch for semale socket and match the UEBSS shall be p capable of allowing for the manifold shall be a socket and the capable of allowing for the manifold shall be a socket and the capable of allowing for the manifold shall be a socket and the capable of allowing for the manifold shall be a socket and the capable of allowing for the manifold shall be a socket and the capable of allowing for the manifold shall be a socket and the capable of allowing for the manifold shall be a socket and the capable of allowing for the manifold shall be a socket and the capable of allowing for the manifold shall be a socket and the capable of allowing for the manifold shall be a socket and the capable of allowing for the capable of allowing f	Emergency Breathing Safety System (UEBSS) IOSH 42CFR, Part 84 and NFPA 1981, 2018 one of each of the following requirements; (1) ch of a Rectus female socket and Rectus male ce check valves, (2) 40" minimum low-pressure toring the hose, and (4) a dust cap for the e plug. ositioned on the wearer's right side and shall be six feet of hose between like systems.			
•	The optional Universal shall be approved to N Edition.  The UEBSS shall have a manifold with one eaplug, both of which have hose, (3) a pouch for stemale socket and matter of allowing for the manifold shall be a The female socket and off-center.	Emergency Breathing Safety System (UEBSS) IOSH 42CFR, Part 84 and NFPA 1981, 2018 one of each of the following requirements; (1) ch of a Rectus female socket and Rectus male e check valves, (2) 40" minimum low-pressure toring the hose, and (4) a dust cap for the e plug. ositioned on the wearer's right side and shall be six feet of hose between like systems.  made of aluminum and be anodized black.			

•	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 pouch shall be marked "UEBSS" and be constructed of reflective material.		D	
•	The pouch shall be removable from the backframe without the use of tools.			
•	The UEBSS shall have provision for connection of a supplied airline for extended duration use while reserving the cylinder supply for egress.	G/		
•	The UEBSS shall connect to a supplied airline using an extended duration airline adapter	G		
•	The extended duration airline adapter shall have a female quick connect fitting on one end to connect to the UEBSS.	0		
•	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.	B		Ü
•	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.	G/		
			Product:	
L			Product	
Eli	ectronic Voice Communications	Meets	Does Not Meet	Exception .
	The respirator shall have an optional facepiece-mounted radio direct interface communication system that provides voice amplification and wireless communication with two-way radios.  Refer to EPIC 3 RDI Voice Amplifier Bid Specifications, H/S 7570			
			Product:	<b>-</b>

Municipal Emergency Services, Inc. 124 East First Street Deer Creek, IL 61733 (800) 322-8402 Office (309) 447-6903 Fax

#### References-Scott X3 Pro SCBA March 2, 2020

West Chicago FPD DC Tim Leidig 200 Fremont Street West Chicago, IL 60185 (630) 231-2123

Lombard FD Lt. Mike Ringa 50 East St. Charles Road Lombard, IL 60148 (630) 620-5737

Arlington Heights FD BC Curt Hanselman 1150 North Arlington Heights Road Arlington Heights, IL 60004 (847) 368-5468

Tom Arendarczyk
MES-Illinois
tarendarczyk@rnesfire.com
(773) 447-6269

#### Service & Repair

MES has (3) Scott Service Technicians servicing the Chicago Metro area. We have a service center in our Lombard office and (2) Mobile Service units providing On-Site service. MES can schedule annual function/flow testing and repairs as necessary. The annual function/flow test is \$50.00 per SCBA.

#### **Training Provided**

- Detailed instruction related to user Operations & Use, Care & Basic Maintenance. Includes
  procedures for
  pre-use functional check, donning & doffing, user level cleaning and proper
  storage will be provided by Ray Redell for all (3) shifts on days mutually agreed upon.
- A Scott In-House Repair Center is typically an end-user of Scott products. An IRC is authorized to
  provide technical service and warranty administration, only for its own Scott products which are
  specifically indicated in its IRC agreement.
- Since Lake Zurlich FD is an in-house repair center with (3) current up to date techs they can add a Add a fourth at no charge. Lake Zurich FD will need to go on line to 3mscott.com and check if there is a service technical training class that they can sign up for. They can contact Tom Raubolt with any questions.
- Tom Raubolt-Field Service Specialist

• Office: (734) 752-6413

Mobile: (734) 309-6220

E-mail: traubolt@mmm.com

# OPTIONAL EQUIPMENT AND SERVICES TO BE INCLUDED (If applicable or available)

Custom Lake Zurich Fire Department logos monogrammed into each of the Carbon Fiber bottles. The Lake Zurich Fire Department will provide the artwork in a high-quality, electronic format.

The retrofitting or conversion of the current Scott compressor model # AB106651-07, and Scott RevovleAr model 5016 air station to meet 5500psi carbon fiber cylinder filling. Access to the filling station can be made by appointment via email as stated above.

- (8) Eight, facepiece mounted 2<sup>nd</sup> Stage regulators (MMR) or equivalent with quick connection to low-pressure section.
- (16) Sixteen spare battery packs (if applicable).



124 East First Street Deer Creek, IL 61733

### Quote

Date Quote# 02/21/2020 QT1339640 03/22/2020

Expires Sales Rep

Arendarczyk, Thomas J

PO#

Shipping Method

FedEx Ground

**Bill To** 

LAKE ZURICH FIRE RESCUE EMAIL INVOICES TO AP@LAKEZURICH.ORG Ship To

DC MICHAEL WENZEL LAKE ZURICH FIRE RESCUE #1 321 S BUESCHING RD LAKE ZURICH IL 60047-2535 United States

	1		, .l. ·	and the early of	· · · · · · · · · · · · · · · · · · ·
CYL LOGO 1-8W		CYLINDER LOGO CHARGE - SINGLE COLOR LOGO BLACK & WHITE	; 98	45.00	4,410.00
AB16-0807		5.5 REVOLVEAIR CONVERSION KIT	, 1	145.00	145.00
Scott Repair		Scott Repair INSTALL AB16-0807 CONVERSION KIT ON EXISTING REVOLVEAIR & MAKE ADJUSTMENTS TO SCOTT MODEL AB10-6651-07 COMPRESSOR TO FILL 5500 PSI CYLINDERS	1	180.00	1
200077-60		REG ASY, QD, 2018	. 8	1,394.55	11,156.40
			,		
	:		ı		
1					
	į				

Shipping Cost (FedEx Ground)

15,891.40

Total \$15,891,40

This Quotation is subject to any applicable sales tax and shipping & handling charges that may apply. Tax and shipping charges are considered estimated and will be recalculated at the time of shipment to ensure they take into account the most current local tax information.

All returns must be processed within 30 days of receipt and require a return authorization number and are subject to a restocking fee.

Custom orders are not returnable. Effective tax rate will be applicable at the time of invoice.



## OPTIONAL FOULPMENT (if applicable or available)

# A separate item zed list, not included in the cost of the above specification final cost, should be supplied for the following items:

- (1) One radio frequency ID tag/ID card reader
- (45) Forty-five radio Frequency ID tag/IDcard

Spectacle Kit for Facepiece (price each)

New Cascade system (price) Appointments to view the space for installation can be made via email referenced above

- (90) Ninety cylinder protectors for 5500psi 30 minute bottles only (price each)
- (4) Four ability to silence PASS device for HAZMAT
- (7) Seven facepiede mounted 2<sup>nd</sup> Stage regulators (MMR) or equivalent with quick connection to low-pressure section (price each)



### Quote

Page 1 of 2

 Date
 02/21/2020

 Quote #
 QT1339682

 Expires
 03/22/2020

Sales Rep

Arendarczyk, Thomas J

PO#

Shipping Method

FedEx Ground

BIII To LAKE ZURICH FIRE RESCUE EMAIL INVOICES TO AP@LAKEZURICH ORG

Ship To

DC MICHAEL WENZEL LAKE ZURICH FIRE RESCUE #1 321 S BUESCHING RD LAKE ZURICH IL 60047-2535 United States

	. 1	1.1	wall the feet of canteers, a sections.	$(v, t, \mu_{\mathcal{F}}^{(n)})$	Marine gale	delagion d'Allie
Scott X3		<u> </u>	Scott X3 SEMS II PROGRAMMED FOR EACH X3 PRO SCBA	1	100.00	100.00
200773-01		Ţ	RFID WRITER KIT SEMS II OPTION	1	528.13	528.13
200774-01		· 1	R.F.I.D. Tag Kit PACK OF 10 SEMS II OPTION	6	99.72	498.60
8005197			Scott Connect Monitor Software - includes 10 downloads SEMS II OPTION	1	<b>0</b> .00	0.00
8006951			Monitor for X3 PRO SEMS II OPTION	1	0.00	0.00
201088-03	!	1	SEMS II, USB GATEWAY SEMS II OPTION	1	1,588.07	1,588.07
805753-01		1	AV3000 SPECTACLE KIT ASSY	1	44.99	44.99
Scott Compressor	AC0503426110		AC0503426110 Scott Compressor MODEL: HUSH, 6000 PSI, 208 VOLT 3 PHASE, 15 HP, CO MONITOR, HUSH ENCLOSED REMOTE AIR, BLUE/WHITE, ENGLISH, NO OPTIONS	1	37,195.29	37,195.29
Scott Compressor	AF2110221041	; ! !	AF21102210411 Scott Compressor CHARGE STATION, MODEL: REVOLEAIR, BASE, STATIONARY FILL PANEL, DUAL PRESSURE: NO, AUX LOW PRESSURE: NO, AUX HIGH PRESSURE: NO, CUTOUT, 4 BANK CASCADE PANEL, SCUBA ADAPTER REVOLVEAIR & CGA	1	12,207.06	12,207.06
Scott Compressor	AR420404400		AR420404400 Scatt Compressor STORAGE & RACK: CYLINDER: UN 6000, RACK: WALL 4, QTY: FOUR, PLUMBING & QTY: 4 CASCADE, HOSES: 40FT., OPTIONS; NONE	<b>t</b>	7,905.88	7,905.88
Compressor Install			Compressor Install	1	1,500.00	1,500.00
₹ 200952-06		1 :	Cylinder Sleeve Kit, 30 minute, 5500 PSI	1	102.67	102.67
200077-60			REG ASY, QD, 2018	7	1,394.55	9,761.85
201210-01	1	<u> </u>   .	ASSY,COM BRKT,AV3 HT,SER KIT,R FOR EPIC 3	1	25.11	25.11
201275-01			EPIC 3 Voice Amplifier (Individually Packaged)	1	494.89	494.89



### Quote

Page 2 of 2 Date Quote #

02/21/2020 QT1339682

Subtotal 71,952.54
Shipping Cost (FedEx Ground) 0.00
Total \$71,952.54

This Quotation is subject to any applicable sales tax and shipping & handling charges that may apply. Tax and shipping charges are considered estimated and will be recalculated at the time of shipment to ensure they take into account the most current local tax

All returns must be processed within 30 days of receipt and require a return authorization number and are subject to a restocking fee.

Custom orders are not returnable. Effective tax rate will be applicable at the time of invoice.



#### Tumpane, Jim

Subject:

FW: SCBA Provider Bid Question

From: Mickey Wenzel [mailto:mickey.wenzel@lakezurich.org]

Sent: Thursday, February 6, 2020 5:06 PM

To: Arendarczyk, Tom < tarendarczyk@mesfire.com >

Subject: RE: SCBA Provider Bid Question

Tom

I spoke to Justin Brooks and you can list the voice amps as optional equipment not included in the cost of the specification final cost. (page 12)

The Cascade compressor information is as follows Model # AB10-6651-07 Serial # 15T6F1386 09/25/06

The RevolveAir information is as follows Model # 5016 Serial # CSR096-1721 (found inside the RevolveAir)

Please let me now if you have any other questions.

Division Chief Mickey Wenzel Lake Zurich Fire Department 321 S. Buesching Road Lake Zurich, IL 60047 Office: (847)540-5070 ex. 1105

Cell: (847)815-8814

From: Arendarczyk, Tom < tarendarczyk@mesfire.com>

Sent: Thursday, February 6, 2020 3:08 PM

To: Mickey Wenzel < mickey.wenzel@lakezurich.org>

Subject: SCBA Provider Bid Question

Hi Mickey,

I have a couple of questions on the attached bid for 3M Scott Fire & Safety.

Page 8 7. Voice Amplification ¢an the Voice Amp & bracket for the facepiece be listed on page 7 Optional Equipment and Services to be included (If applicable or available) or on page 12 Optional Equipment (if applicable or available) not included in the cost of the above specification final cost?

Page 12 24. Cascade Conversion What year is the Scott compressor and Scott RevolveAir fill station? Can you also provide S/N for each?

Thanks,

Tom Arendarczyk Outside Sales Representative Municipal Emergency Services

Office: 800-322-8402 Mobile: 773-447-6269 larendarczyk@mesfire.com

www.mesfire.com



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## Specialist Level Too List - X3 Pro SCBA

Backframe/Harness Assembly:

9 mm Open End Wrench

3/8 in Open End Wrench

5/8 in Open End Wrench

T-25 Torx Driver

7/16 in Deepwell Socket, 3/8-inch Drive

3/8 in Drive Ratchet

Screwdriver, Phillips (No. 1 bit)

Screwdriver, Phillips (No. 2 bit)

Screwdriver, Phillips (No. 3 bit)

Screwdriver, Small Flat Blade

Screwdriver, Large Flat Blade

Screwdriver, Phillips Head Jewelers

Needle Nose Pliers

Torque screwdriver capable of 8-inch pounds

Torque Wrench Capable of 20 in-lbs

3/16 in Hex Wrench

1/4 in Hex Wrench

7/64 in Hex Wrench

9/64 in Hex Wrench

Wire Bristle Brush (Toothbrush Style)

Utility Knife