

Jill Murray

From: Jim Fatland
Sent: Saturday, May 13, 2017 1:02 PM
To: 'David McNeill (david.mcneill@transylvaniacounty.org)';
'gerald.grose@transylvaniacounty.org'
Cc: Craig Budzinski; Bradley Elmore
Subject: FW: BFD Rescue Truck SCBA Replacement
Attachments: Rescue 21 Replacement Justification.doc; Copy of Rescue Equipment.xlsx; SCBA Request Justification 2017.docx

David/Gerald:

Attached is information requested for the FY18 Proposed Brevard Fire/Sylvan District #2.

If you need additional information, please let me know.

Jim

Jim Fatland, CPFO
City Manager
City of Brevard
95 West Main Street
Brevard, NC 28712
828.885.5602
828.885.2853 (Fax)
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From: Craig Budzinski
Sent: Friday, May 12, 2017 3:10 PM
To: Jim Fatland
Cc: Bradley Elmore ; Mark Norton
Subject: BFD Rescue Truck SCBA Replacement

Jim,

Please find attached the justifications for the rescue truck and SCBA requested.

Thank you
Craig

Craig F. Budzinski
Fire Chief
City of Brevard F.D.
Cell 828-329-1349

City of Brevard Fire Department

Rescue 21 Replacement

Rescue 21 is a 1996, 21,185 miles (21 years old and 22 when new apparatus arrives), International with a Hackney body that currently carries all our NCRRS required equipment for a service truck and heavy rescue standard equipment. This particular truck has served its purpose within the fire department and it is time for replacement. It is used for our NCRRS in Sylvan Valley 2 district and residential calls in both districts as a service truck. It responds on all rescue calls in the city and MVC's in Sylvan Valley 2.

Issues

Rescue 21 is 21 years old and is obsolete in terms of firefighter/public safety, functionality and performance standards. It has no ABS brakes, stability control or air bags, the truck does not meet the current NFPA standards for first line fire apparatus. The truck burned (see pictures) in 2003 and against International's recommendations the League of Municipalities Insurance had the truck repaired. It has caused us many problems since that time, all the wiring was burned and the truck has lower engine power and many truck mechanical failures. An example is the light tower is non-repairable because of too many wiring issues to fix it. It is utilized in our fire district as a first-line service/rescue truck and can be called to our mutual aid departments for a heavy rescue. Rescue 21 is currently the only heavy rescue rated truck in Transylvania County. It does respond on residential fires in Sylvan Valley 2.

Replacement Apparatus

The fire department has spec'd a new apparatus that would meet all current and applicable NFPA 1901 standards. The new apparatus would have capacity to hold all our needed equipment, now and into the future. It will be a Spartan custom cab with all the current safety features, roll stability, ABS brakes, knee and head air bags, seat belt warning alarm and LED display and all safety lighting. It will have a 22' Emergency Vehicles, INC (EVI) body. The body will have stairs to the top coffin boxes for firefighter safety, and roll up doors to access the side compartments. To reduce noise on the scene the apparatus will have a stand-alone diesel 10KW generator on top that will let the truck engine be off but still run all lights and needed equipment. The current cost of this truck is estimated at \$588,900. The replacement of this truck is beneficial to the fire department because it will allow for safer driving for fire department members. This truck is instrumental in the department maintaining the Sylvan Valley 2 rating of 5 and the Rescue Association Heavy Rescue Standard.

NFPA 1911/NCRRS

NFPA 1911 is the national fire protection standard on Fire Department Automotive Apparatus Inspection, Maintenance and Retirement. This standard outlines areas such as firefighter safety, maintenance, design, required equipment, and replacement schedules. NFPA states that the replacement schedule for fire department apparatus is 15 years for first-line apparatus. At 15 years, it can be moved to reserve status and replaced at 25 years. The 1901 standard requires ABS brakes, automatic transmission, secondary breaking, shorter braking distances, a load management system, better FF seating/seat belts, air bags, a lower center of gravity, rear reflective stripping and governed to 60 miles per hour. Fire department apparatus is just like any other piece of equipment that is in the fire service in that it must be phased out when it has served its purpose.

Our North Carolina Fire Suppression Rating Schedule of a 5 in Sylvan Valley 2 requires us to have and respond an equipped service truck on every structure response.

Fire Department Apparatus/Equipment Committee

The Brevard Fire Department currently utilizes an apparatus committee that is charged with the task of looking at the current needs of the fire department in regards to apparatus and equipment. This committee was formed in 2003 when the fire department was looking to add a new engine to the apparatus fleet. These committee members have worked tirelessly over those years to ensure that the fire department is progressing in a positive manner in regards to firefighter safety and apparatus operations. Engine 21, 22, 24, Tanker 21, 22 and Truck 21 are examples of the hard work that the apparatus committee has accomplished. We feel that these six pieces of apparatus are something that the fire department, city government, county government, as well as the tax payers can be proud of. A few members of this committee have also served on similar committees with larger fire departments such as Asheville, West Buncombe, Charlotte and Hickory. The experience and knowledge that the fire department has at its discretion in regards to apparatus committee's is unparalleled throughout Western North Carolina. The fire department feels that by replacing this apparatus, we are ensuring that the tax payers are getting a long term investment in the way the fire department operates. The addition of a service/rescue apparatus will allow the fire department to continue to progress in helping to protect the citizens and visitors that enjoy our area. Protecting the Sylvan Valley 2 fire district's people and assets are the most important responsibility that the fire department takes charge of. The fire department's goal is to continue to provide a higher level of service that the city, county and the citizens have grown accustomed too.

Equipment

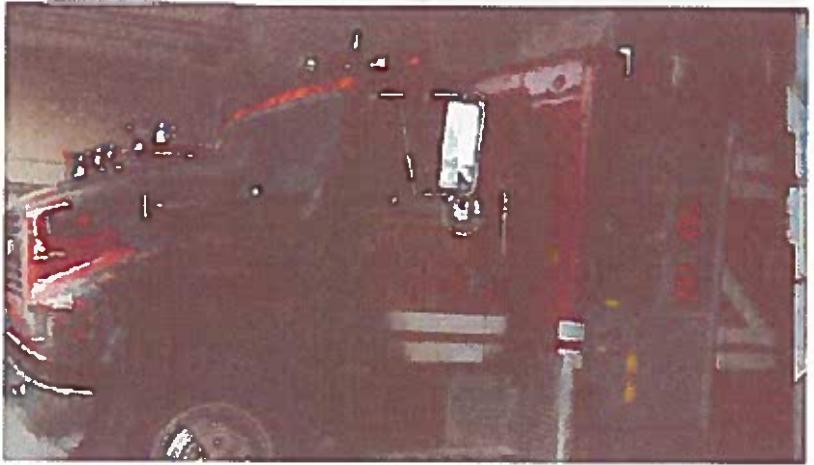
We are looking at new equipment to replace some of our aging equipment that we now carry. Equipment, like apparatus, is governed by NFPA standards. Examples of equipment with expiration dates that our current equipment is close to reaching are rope, air bags, dry suits and PFD's.

We are looking to transfer some of our usable equipment over to the new apparatus like some of the new extrication equipment and purchase some new equipment we currently do not have, example thermal imager camera.

See attached list we will use for pricing.

Financing

The department would like to finance the replacement apparatus over a ten year period and take advantage of low interest bank financing. The apparatus payment will take the place of the current aerial truck payment and start in FY 2019 budget. The total maybe less, but not more than \$850,000, after approval and pricing out of needed equipment







Equipment Classification Area	Quantity Required	Heavy Rescue Equipment
Generator	1	3kw Generator (Portable)
Lighting Equipment	8	Handlights (Portable) 6V Rechargeable Box Light Style
	6	Headlamp Light
	2	Battery Powered Portable Tripod Light
	4	Lights (portable/tripod) Combined 4000Watts
	4	12/3 Extension cord 100'
	2	Power Distribution Box
	2	12/3 GFCI
Fire Protection	1	10 lb Dry Chem Extenguisher
	1	10 lb CO2 Extenguisher
	2	Water Can
	1	Purple K Extenguisher
	1	Class D Extenguisher
Cribbing & Stabilization	60	4"x4"x24" Minimum Block Cribbing
	30	4"x4"x48" Block Cribbing
	20	2"x4"x24" Minimum Block Cribbing
	12	6"x6"x24" Minimum Block Cribbing
	12	6"x6"x36" Block Cribbing
	12	6"x6"x48" Block Cribbing
	4	4"x4"x12" Cribbing
	24	6"x6"x24" Minimum Wedges
	40	4"x4"x18" Minimum Wedges
	5	Wheel Chocks
	8	Step Cribbing
	16	1"x48" Minimum Pickets Rolled Steel
	16	Picket Caps/Covers
	1	Rescue 42 Rescue Kit W/ Tripod
	4	Rescue 42 Manual Lift Jack
		1200 total feet 1/2" low stretch rope
	1	300 total feet 5/8" low stretch rope
	4	Class II Harnesses- Will have exceed requirement and utilize Class III
	4	Class III Harnesses
High Level Equipment	4	Conterra Rigging Bags
	6	Rescue Helmets (Orange)
	3	Conterra Magnum Rope Bag
		Rope bags for remainder of rescue ropes
	36	Carabiners
	3	SMC NFPA G 6 Bar Rack
	3	SMC NFPA G Compact U Rack
	3	Rigging Plate
	24	8mm Prussik Slings
	8	25'X 1/2" Body Chords
	8	25'X 2" Tubular Webbing
	6	5' X 1" Tubular Webbing Green
	6	12' X 1" Tubular Webbing Yellow
	6	15' X 1" Tubular Webbing Blue
	6	20' X 1" Tubular Webbing Red
	6	25' X 1" Tubular Webbing Black
	6	Double Sheave Pulleys
	4	Single Sheave Pulleys
	4	CMC Aztek Pro Series System
	6	Edge Rollers/ Pads
	1	Line Gun
	2	Kootenay Pulley
		Yosemite Pre Rig
		Line Deployment Sling Shot
	1	Super Clip Rescue Clip for Pike Pole
		Harken RopeWinch
		Harken LokHead Winch
	2	CMC MPD
	4	Petzl Ascension Handled Ascenders
	2	22oz Claw Hammers w/ 15" Handles
	2	Military Type Folding Shovel
	1	24" Bolt Cutter

1	36" Bolt Cutter	
1	Large Cable Cutter	
2	Flat Pry Bar	
2	Pry Bar 15"	
3	Pry Bar 31"	
1	Crow Bar 36"	
2	Halligan Bar 30"	
2	Pick (Point & Chisele) 36" & 51" Handle	
1	Flat Head Axe 8 lb Fiberglass Handle w/ slot	
1	Pick Head Axe 6lb Fiberglass Handle w/ slot	
2	"Pig" Striking Tool	
2	Sledge Hammers 8 lb	
2	Round Point Shovel (Long Handle)	
2	Square Point Shovel (Long Handle)	
1	6" NY Roof Hook	
2	8" NY Roof Hook	
1	6" Talon Hook	
2	12" NY Roof Hook	
1	10lb Sledge Hammer	
1	Set of Elevator Keys	
1	Colordado Hook	
2	Rigid Frame HackSaws	
12	Hacksaw Blades	
1	Handsaw, Carpenter Type	
1	Bow Saw 24"	
1	Electric Chain Saw	
1	Chain Saw	
1	Spade Chain	
1	Root Saw w/ carbide tip chain	
1	Roof Saw w/ carbide tip chain	
1	Electric Chain Saw	
2	Chain Saw Files	
1	Flat Chain Saw File	
1	Chainsaw Chaps	
4	Reciprocating Sawblades	
24	Rotary Saw 14"	
2	Rotary Saw 7 1/4"	
6	Spade Circular Saw Blades For Wood	
2	Spray Bottles with non-flammable lubricant	
1	Air Chisel Kit	
1	Impact Hammer (Ajax x11)	
1	Bulipoint bit for impact hammer	
1	Chisel bit for impact hammer	
1	Spade bit for impact hammer	
1	Exo Thermal Torch	
1	Spade bit for impact hammer	
1	Torch	
1	Dyngen Tank size 80	
30	Proylene Tank size 30	
1	Torch Rose Bud Head	
1	Propane Gun Trigger Torch	
1	Metal Circular Saw	
1	Spade Metal Circular Saw Blades	
1	Metal Cutting Deep Cut Band Saw	
12	Traffic Cones	
1	Barrier Tape 2000ft	
8	Traffic Vests DOT Compliant	
1	Incident Command Vest Kit	
2	Flashlights W/ Traffic Wand	
1	Road Triangles required by DMV	
1	Box of Road Flares	
1	Radio Transmitter Meter	
1	Binoculars 7 X 50 mm Power minimum	
1	Crowd Control	

Commuunications	
1	Multi-Gas Meter
Minimum of 5	Fuel Spill Boom
Minimum of 25	Fuel Spill Absorbent Pads
3	Power Pools Various sizes, ability to contain Gasoline
1	Hazmat Putty Kit
1	KNOX Key Secure
1	12,000lb Truck Mounted Electric Winch
1	Reese Hitch Mounted Winch 8,000lb Electric
2	Single Sheave Snatch Blocks for Truck mounted Winch
1	Single Sheave Snatch Blocks for Reece hitch mounted Winch
2	Cable or Chain 2 Ton Come A Longs
2	8000lb come alongs
4	3/8" x 6' Grade 70 transport chain
1	3/8" x 22' Grade 70 transport chain
8	3/8" Grade 70 transport chain shornteners
1	12' Grade 100 Chain rated for overhead lifting
1	8' Grade 100 Chain rated for overhead lifting
1	Grade 100 Chain shorter rated for overhead lifting
1	4 Ton Port-a-Power
2	48" High lift jacks
2	60" High lift jacks
4	Rescue 42" Jack Mate
2	10 ton Hydraulic Bottle jacks
2	20 ton Air & Hydraulic Bottle jacks
1	High Pressure Air Bag Set
3	Vetter Brand Connectable 30 Ton
2	Vetter Brand Connectable 75 Ton
1	Vetter Brand Emergency Rescue Set
3	Vetter Brand Hoses Short Off Unit 32ft
4	Vetter Brand Shut off Unit
3	Vetter Brand Emergency Rescue Set
2	Vetter Brand Connectable 30 Ton
1	Vetter Brand Connectable 75 Ton
4	Rescue 42" Jack Mate
2	48" High lift jacks
2	60" High lift jacks
4	Rescue 42" Jack Mate
8	3/8" x 20' Grade 70 transport chain
1	3/8" x 22' Grade 70 transport chain
4	3/8" x 6' Grade 70 transport chain
2	8000lb come alongs
2	Cable or Chain 2 Ton Come A Longs
1	Single Sheave Snatch Blocks for Reece hitch mounted Winch
2	Single Sheave Snatch Blocks for Truck mounted Winch
1	Reese Hitch Mounted Winch 8,000lb Electric
1	12,000lb Truck Mounted Electric Winch
1	KNOX Key Secure
1	Oil Dry
1	Hazmat Putty Kit
1	Power Pools Various sizes, ability to contain Gasoline
3	Gas Clamp Mustang Clamp
1	Fuel Spill Absorbent Pads
Minimunm of 25	Fuel Spill Boom
1	Multi-Gas Meter
Communications	
Pulling	
Equipment	
1	4 Ton Port-a-Power
1	12' Grade 100 Chain rated for overhead lifting
1	8' Grade 100 Chain rated for overhead lifting
1	Grade 100 Chain shorter rated for overhead lifting
2	Vetter Brand Emergency Rescue Set
3	Vetter Brand Hoses Short Off Unit 32ft
4	Vetter Brand Connectable 30 Ton
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1	Multi-Gas Meter
Heavy Hydraulic	
1	Hydraulic Cutter
1	Hydraulic Rams
2	Hydraulic Cutter
1	Hydraulic Combi Tool
1	Hydraulic Ram
1	Edraulic Combi Tool
1	Edraulic Rams
2	Hydraulic Cutter
1	Hydraulic Spreader
1	Mini Cutter
1	Mini Hand Pump
1	Hydraulic Frame Attachment Set
1	Hydraulic Chord Maintenance Kit
1	Hydraulic Manual Reel
1	Hurst Strong Arm (fire)
1	Spare Hydraulic Chords Streamline Connections on both ends
3	Flat Head Screws Assorted Sizes (2 at least 15")
10	Phillips Head Screws
10	Flat Head Screws Assorted Sizes (2 at least 15")
4	Spring Loaded Center Punch
2	Glass Master
1	Pipe wrench 18"
1	Utility knife With Hooked Blade
1	9 1/2" Slip Joint plier
2	10" Vice Grip plier
2	6" Vice Grip plier
1	2 lb machinist type hammer
1	Utility knife With Hooked Blade
2	Glass Master
1	Pipe wrench 18"
1	Utility knife With Hooked Blade
1	9 1/2" Slip joint plier

Hand Tools	
1	16" Slip Joint Type Channel Lock Plier
1	1/2" X 12" Cold Chisel
1	8" Tin Snips
1	3/4" Hammer Drill w/ Assorted Bits
1	Air Impact Wrench w/ Rethread Sockets
1	1/4" Socket Set (3/16"-1/2") & 8mm-13mm
1	3/8" Socket Set (7/16"-13/16") & 8mm-13mm
1	1/2" Impact Socket Set (7/16"-1" & 9mm-22mm)
1	3/4" Socket Set (7/8"-2 3/8")
1	1/2" Combination Wrench Set (3/4"-1 5/8") & 6mm-32mm
1	Hex Key Wrench Set (5/64"-3/8") & 1.5mm-10mm
1	Torx Drivers Set/Socket Type (Size 15-45)
1	Small Bolt Cutter
1	Set of Incident Command Forms
1	County Road Map
1	N.C. State Road Map
1	Trail Maps of Pisgah National Forest & Bracken Trail System
4	Waterlight Map Cases
2	Fire Retardant Blankets
4	10' X 12' Tarp (Minimum) 18oz minimum
2	38' X 20' Tarp 18 oz minimum
1	OSHA Compliant Safety Fuel Can 2.5gallon Plastic
1	Set Topographic Maps to cover local region
1	Battery Powered GPS Unit
1	38' X 20', Tarp 18 oz minimum
1	Landing Zone Light Kit
1	Conspace Hardline Comm Kit
1	Search Cam Hasty Search Kit
1	RamFan PPV Fan 5,000cfm minimum
2	RamFan Standard Duct 25' W/ Storage bag
10	Salvage Covers 12'X14', Minimum 18oz
4	Vinyl Hall Runner Tarp 18oz
1	Thermal Imaging Camera
1	Vehicle Mounted Charging Base
1	Spare Thermal Imaging Camera Battery
1	Elevated Stream Device
6	Dust Masks
6	SCOTT 7A2 style cartridge adapters
1	100ft Tape Measure
6	Ear Plugs
6	Safety Glasses
3	Wood Screws
3	Sheet Metal (self tapping) screws
1	Brition Caps Tar Paper Nails
1	Roll of Tar Paper
200	Air Hoses Total Feet
1	Regular Gas Can
1	Mix Gas Can
1	Bar Oil for Chain Saw
4	Folding Chairs
1	Mix Gas Can
1	Regualar Gas Can
1	Air Hose Total Feet
2	28' Extension
2	16' Roof
1	10' Arctic Ladder
1	14' Extension (Combination)
1	Cooler
2	Sump Pump
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1	14' Extension (Combination)
1	Cooler
2	Sump Pump
4	Folding Chairs
1	Bar Oil for Chain Saw
1	Mix Gas Can
1	Regualar Gas Can
1	Air Hose Total Feet
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2	16' Roof
1	10' Arctic Ladder
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1	Mix Gas Can
1	Regualar Gas Can
1	Air Hose Total Feet
2	28' Extension

1	Littere Giant Ladder	Type III/V PFD	2	Grounder Ladder Wedge Kits	8	Water Rescue Throw Bags 3/8" X 70'	8	Water Rescue Kneelie and sheath able to be attached to PFD	8	Glow Sticks	8	Flastrilights	8	PFD Tether Chord	8	Pruissik Chord	8	Whistle	6	Dry Suits	2	300', 7/16" 5000lb Water rescue rope w/ Storage Bag	2	18" Type IV Throwable Device	1	Inflatable Boat	1	Storage Bag for Boat	8	Boat Paddles	2	Manual Boat Pump	1	K9 PFD	2	RescueCinch Collar	1	Cross Line Reach System	6	SCBA	12	Spare SCBA Cylinders	1	RIT BAG	4	RIT Cylinders	1	Air Cart	4	Air Cart Air Line 30ft sections	4	Air Cart Air Line 50ft sections	4	Supplied Air Respirators	2	Spare SKA-PAK escape Cylinders	1	KED Device	2	Pediatric "C" Collars	1	Oxygen Regulators 0-15 LPM	2	Oxygen Cylinders	1	Non Rebreather Mask (Infant, Child, & Adult)	2	Nasal Cannulas (Infant, Child, & Adult)	1	Bag Valve Mask w/ High Concentration Kit (Infant, Child, & Adult)	1	Suction Device (Portable with soft tip suction catheter)	2	Manual Suction Device	2	Blanket	1	Splint Kit (Includes Tracheotomy Splints)	2	Trama Kit	1	Body Bag for transport of deceased	2	Additional Body/Exposure Bags	1	Stokes Basket Litter	1	Stokes Basket Litter	2	SKED Stretch Kit	2	ClipBoard	100	Triage Tags	4	Medical Gloves Boxes
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		HILTI TE60
		Effare, (6) total, rubber bases, cone clips, and storage bag
		CSI-RES-KIT1P
		Item No. 6000-22-001
		EX400 E880600
		PDT-1625BR
		Various sizes to be determined at purchase
		ISG ELITE XHR
		Fire Hooks Unlimited Flood Fighter
		RTC 65
		Duo Safety Series 35-B
		Duo Safety Series 585-A
		Duo Safety 875-A Roof
		Duo Safety 1200-A 2 Section

1AA Model 22	(6) Force 6 RescuteTec PFD (L/XL), (2) Force 6 RescuteTec PFD (S/M)	NRS Chaos w/ removable ear protection (yellow)	NRS Pro Rescue Throw Bag Or Mustang MRD 175	Princeton Tec Meridian Strobe Headlamp style, waterproof	72" / 7mm	Fox 40	NRS work boot, various sizes, determined at purchase	Mustang MSD576 Various sizes, determined at purchase	Stearns 24" Ring Buoy	72" Clinch Rescue Collar	HD26069	SCOTT X3 550psi 45min SCBA CGA fitting	5500psi 45min cylinders CGA fitting	SCOTT RT Pak III 5500psi	5500psi 75min cylinders CGA fitting	SCOTT Mobile Air-Cart, 4 outlet, plus 2 outlets for air tools, 805827-01	Hanssen Fitting	SKA-PAK Plus 4500psi 10min cylinders, Kevlar Harness, Hanssen Fitting	1 Piece Plastic w/ minimum of 500lbs capacity Dragee in Color	size D cylinder aluminum	WOOL	Laredal LCSU 4 Compact Suction Unit	Laredal V-Vac Manual Suction Unit	Junkin Plastic Breakaway	Junkin Stainless Steel Military	Junkin Flotation Kit	Sked Basic Rescue System International Dragee Upgraded with Cobra Buckles	Possie Bottom Opening Box
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City of Brevard Fire Department

SCBA Replacement

Brevard Fire has applied for the FEMA Assistance to Firefighters Grant for the replacement of our SCBA's for the years 2014, 2015 and 2016. We have been turned down at the end of the grant process in 2014 and 2015 for SCBA's. The 2015 grant did allocate us money to replace our SCBA fill station compressor, which we did. The 2016 grants have now started to be released April 16, 2017. We have not received a turn down letter as of May 12, 2017. **The budgeted amount will not be used if the grant is approved.**

Our request is for SCBA that is in compliance with OSHA and NFPA 1981-13 revised edition standards that are directly tied to our daily operations and to enhance firefighter safety. The \$389,250 is the grant budgeted amount for 45 air packs and 5 tracking locators integrated PASS systems. Operationally we carry 8 SCBA on 3 engines, 5 on 1 engine (reserve engine), 6 each rescue and aerial and 2 on both tankers. We need to carry more SCBA because of volunteer members responding in POV's to scenes. We averaged on NCRRS for structure fires 21 BFD members.

Issues

Our 2017 air pack inventory includes 7 air packs purchased in 1992, 14 in 1997 and 24 in 2002, a total of 45 air packs and 45 spare bottles. We are now borrowing spare bottles from a vendor (some yellow aluminum) with 48 of our bottles expiring at the end of this year. The most cost effective way to eliminate our most common risk is to replace these unpredictable and unsafe 2216 air packs that are now used when providing auto and mutual aid to the other 6 departments that are using high pressure SCBAs.

Due to the years of use at a 3 year average of 167 calls to IDLH atmospheres, and 50 auto aid calls, these SCBA have had issues with pressure transducers, gauges remaining open giving false readings, valves sticking, etc. Because of these problems it is unrealistic to continue committing our firefighters to life threatening situations using these unacceptable SCBA units. Our maintenance costs are @ \$4000 year. Our critical need is to replace the 2216 with the new 5500 psi or 5.5L ones with a spare 45 minute bottle (NFPA also requires that at 33% of air supply the FF must exit the building vs 25% with our older SCBA) and voice amplified face masks that have the auto PASS, are CBRNE compliant and meet NFPA 1981-13 revised edition standards. With replacement SCBA we will have a positive effect on the fireground, allowing our firefighters to perform our core mission of reducing the loss of life and property. In addition we have a critical need for a first time purchase of 5 tracking locators for our 3 engines, 1 rescue and 1 aerial, they will fill capability gaps to enhance our daily operations while improving firefighter health & safety.

Project Budget

45 Air Packs w/ Locators, heads up display, spare bottle and voice amp. face mask, buddy breathing at \$8,450 ea.

5 Trackers with truck charger \$1,800 ea.

Total \$389,250

Again if we do not get the grant and the price comes in less per SCBA the borrowed amount will be less.

To be budgeted in 2019 FY budget for 10 years.