

PORT OF SEATTLE
MEMORANDUM

COMMISSION AGENDA
ACTION ITEM

Item No. 4b
Date of Meeting July 1, 2014

DATE: June 23, 2014
TO: Tay Yoshitani, Chief Executive Officer
FROM: Randy Krause, Fire Chief
SUBJECT: Fire Department purchase of Self Contained Breathing Apparatus (SCBA) equipment

Amount of This Request:	\$313,000.00	Source of Funds:	Airport Development Fund
Est. Total Project Cost:	\$343,000.00		
Est. State and Local Taxes:	\$29,754.00		

ACTION REQUESTED

Request Commission authorization for the Chief Executive Officer to execute a contract for \$343,000.00 to purchase Self Contained Breathing Apparatus (SCBA) equipment for the Port of Seattle Fire Department.

SYNOPSIS

The Port of Seattle Fire Department (POSFD) utilizes Self Contained Breathing Apparatus to provide breathable air in an immediate danger to life and health (IDLH) atmosphere. The pieces of the SCBA include cylinders, bottles, packs, and masks. Breathing apparatus cylinders have a service life of 15 years, which is established by Department of Transportation (DOT). All of the current units the Port uses will be in need of replacement by the end of calendar year 2014. We will need to replace all of the “soft items” such as shoulder straps and pads on all of our units as well as doing a total rebuild of all of our units to keep up with manufacturer recommended standards. This will be the second rebuild of these packs. 85% of our packs are still at the 1997 edition National Fire Protection Association (NFPA) standard and will need to be updated to meet new NFPA 2013 standards.

BACKGROUND

The original budget request for SCBA replacement was approved in 2012. Due to a delay in manufacturing to meet new NFPA standards, all purchases were delayed to the beginning of 2014. During this delay, the POSFD has been diligent by extending the life of the current equipment while maintaining compliance and without compromising safety.

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PROJECT JUSTIFICATION AND DETAILS

Authorization of this request will maintain continued compliance in line with the DOT standards. The DOT standard 49 Code of Federal Regulations (CFR) 173.34e requires that breathing apparatus cylinders be retired from service after 15 years, with no exception.

The new SCBA standards provide updates in equipment that enhances firefighter safety through improved reserve air monitoring and improved face pieces that will serve us well for the next 15 years. It is a risk if we have two different SCBA standards in place within the department and creates a large risk in our daily operations by the following:

- **Hazard Zone Operations** – Two different SCBA standards within the hazard zone would create additional risk to firefighters because the working capacity of each type of cylinder is different, creating the potential of one firefighter to have less available working air than others within the hazard zone.
- **Certifications/Training** – each firefighter has to certify each year on every type of SCBA they are required to use. This certification requires annual training, testing and quarterly donning and doffing drills, therefore, having two standards would double the training and certification requirements.
- **Compressor/Fill Station** – Having two SCBA standards creates risk in re-servicing cylinders requiring different pressures. The old standard requires 4500 psi and the new standard requires 5500 psi; therefore, when filling the cylinders the potential could be catastrophic if mistakes are made if a 4500 cylinder is thought to be 5500.

Project Objectives

The primary focus of Seattle-Tacoma International Airport is the provision of a safe and secure airport operating facility with sufficient emergency support for our tenants, the traveling public, and to protect the region's airport assets. This purchase will help us continue to stay compliant with regulations and standards while at the same time improving firefighter safety while working in an IDLH atmosphere.

Scope of Work

Description	Qty	Unit Price	Amount
SCOTT X3 SCBA 5500 PSI: SNAP-CHANGE QUICK CONNECT HOSE DUAL PASS	39	\$5,550.00	\$216,450.00
SCOTT X3 SCBA 5500 PSI: SNAP-CHANGE QUICK CONNECT HOSE DUAL (HAZMAT)	6	\$4,935.00	\$29,610.00
CYL & VALV, QD, CARB, 45/5500 ASSY	78	\$1,089.00	\$84,942.00
AV3000 HT, KEVLAR HEADNET, SIZE MEDIUM, RIGHT SIDE COMM BRKT	99	\$282.00	\$27,918.00
EPIC 3 VOICE AMPLIFIER INDIVIDUAL	7	\$392.00	\$2,744.00

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SPAT-E 45 15MIN KVE SP CE-C	4	\$2,045.00	\$8,180.00
RIT PAK III ASSY, 5500PSI	2	\$2,385.00	\$4,770.00
ADAPTER FOR NXG2 FITS 2216 OR 4500 PSI VALVE	4	\$379.00	\$1,516.00
YL & VALV, QD, CARB, 60/5500 ASSY	2	\$1,221.00	\$2,442.00
CYL & VALV, CARB, 60/5500 ASSY with Snap-Change	16	\$1,221.00	\$19,536.00
Footplate--short	1	\$18.90	\$18.90
Used Airpak	-43	\$1,975.00	<\$84,925.00>
Total before sales tax			\$313,201.90
Sales Tax			\$29,754.18
Total Cost			\$342,956.08

Schedule

The current manufacturer lead time is 90 days. The intent is to place the order by the end of July to ensure the equipment is delivered prior to October. The month of October is the Port's annual certification of SCBA equipment. By testing on the new Scott equipment we will not have to test and purchase any of the equipment that will become obsolete. Placing the order quickly will also assist in the following: to effectively train and orient employees to the new standard and features, to conduct required fit testing, to safely transition from the old standard to the new standard before many of the 2007 model SCBAs expire, and to allow the purchase to be made on a national purchasing contract.

FINANCIAL IMPLICATIONS

Budget Status and Source of Funds

The costs associated with this authorization request are included in the 2014 approved operating budget for the Fire Department. As such, the funding source will be the Airport Development Fund. There will be a one-time increase to passenger airline cost per enplanement (CPE) of approximately \$0.02 in 2014.

Lifecycle Cost and Savings

The lifecycle of the SCBA is 15 years. There will be a savings of approximately \$85,000 due to the buy-back of used equipment; this savings is included in the total cost of the purchase.

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STRATEGIES AND OBJECTIVES

This purchase supports the Airport's strategy to operate a world class international airport by ensuring safe and secure operations. This upgrade to the most recent SCBA standard enhances firefighter safety and will enable a continued ability to provide rapid response to the airfield, to travelers, and community members alike who are in need of a rapid response, care, and treatment. Also, this new SCBA standard is becoming the standard in equipment within our area and through the utilization of like type equipment; it supports and improves area safety when responding with our jurisdictional partners.

ALTERNATIVES AND IMPLICATIONS CONSIDERED

Alternative 1) – Delay purchase to 2015. All of the current equipment will be out of compliance per DOT and NFPA standards. Delaying this purchase will result in life safety issues and would prevent entry into the hazard area on the fire ground. This is not the recommended alternative.

Alternative 2) – Request Commission authorization for the Chief Executive Officer to execute a contract for \$343,000.00 to purchase SCBA equipment. **This is the recommended alternative.**

ATTACHMENTS TO THIS REQUEST

- None.

PREVIOUS COMMISSION ACTIONS OR BRIEFINGS

- None.