



CITY OF HOUSTON
FINANCE DEPARTMENT
Strategic Procurement Division

Annise D. Parker

Mayor

Carolyn Hanahan
Acting Chief Procurement Officer
P.O. Box 1562
Houston, Texas 77251-1562

F. 832.393.8755
<https://purchasing.houstontx.gov>

October 29, 2015

Subject: Letter of Clarification No. 1 to Invitation to Bid No. S07-L25291 for Inspection, Maintenance, Repairs & Testing of Self-Contained Breathing Apparatus for Various Departments

To: All Prospective Bidders:

This Letter of Clarification is being issued for the following reasons:

- To revise the bid opening date from October 29, 2015 to November 5, 2015 at 10:30 a.m.
- To revise SECTION "B" Scope of Work/Technical Specifications, the Electronic Bid Form to revise descriptions in line items 11, 14, 21, 22 & 23 and answer questions posed by perspective bidders:
- See the revised Electronic Bid Form.
- The following questions and City of Houston responses are hereby incorporated and made a part of the Invitation to Bid:

Question No. 1: Title of bid, "Should it be clarified within the title of the bid that this bid that this bid not only covers Self-Contained Breathing Air Systems, but also Breathing Air Compressors.?"

Answer: No. The title shall remain as currently titled.

Question No. 2: Section 1.0, General: "It was discussed that after 4 p.m. was overtime. It was discussed that a clarification would be made on this and it would also be clarified that you should have overtime and/or anything deemed "emergency" in writing, prior to performing work/testing."

Answer: Yes. Please see attached revised pages Emergency overtime shall be specified as any time other than hours between 0700 hours thru 1600 hours, Monday thru Friday. A response time shall be two (2) hours for emergency calls and eight (8) hours between 0700 and 1400 hours, Monday thru Friday. All emergency calls shall be considered on a case-by-case basis and shall be approved in writing, by the applicable department, prior to occurrence of the work. E-mails or memorandums are acceptable for this purpose; however, text messages are not acceptable, unless they can be printed for records.

Question No. 3: Section 1.0, General: "Based on our past experience with the contract, we feel it is to the City's advantage to require no less than 3 certified service technicians required for the implementation of this contract. As discussed during the Pre-Bid Conference, there have been many times that the City requested 2 certified technicians available for fit and/or flow testing of certain locations/districts. If during that time, a compressor issue and/or service arises your 2 required certified technicians are tied up with fit and/or flow testing and unable to report to another issue and/or service.

Answer No. 3: The City expects that a Contractor shall have adequate staff numbers to accommodate both usual and emergency business requirements for a contract with the City of Houston. The City believes that internal staffing is a function of the supplier, and the Contractor's staffing shall reflect the requirements to provide consistent excellent and timely service to the City of Houston. The Contractor shall gauge their staffing requirements, based on the minimum specifications listed within this bid. There will be instances that the City requires two certified technicians at the same time on one location/project to expedite the completion. It is possible that additional technicians, beyond two (2) staff, might be required at another location during a scheduled project.

Question No. 4: Section 4.2 Additional Monthly Requirements for Public Works & Engineering (4.2.5): Mike Morino requested a clear definition of "Fill & Leak Check".

Answer: When monthly service is performed, if a cylinder requires oxygen, the cylinder shall be checked for possible leaks and filled with oxygen to ensure there is no leak. As requested by departmental representative, there shall be two (2) leak tests during the fill process, one while the cylinder is filling and another on the cylinder after they have been filled. This test must be done on each requested cylinder, to ensure that the contents of the cylinder is not leaking and that the user shall receive the full contents in the cylinder.

Question No. 5: Section 4.8, Annual Requirement For the Oxygen Transfer Booster Systems (4.8.12) Mike Denning brought up that it had been determined that it was cost prohibitive to the City to send the Oxygen Booster back to the manufacturer every year, and they had not been doing this on an annual basis.

Answer: 4.8.12, Change to read as follows: Oxygen booster shall be sent to manufacturer for annual certification, only upon written request by the applicable department.

Question No. 6: Section 4.10, Hydrostatic Test (4.10.4) It was discussed that "Eddy Current Test" be added to the line item list, as it is not normal/regular test included with Hydrostatic Testing and is only required on certain cylinders.

Answer: At this time, the City will not add a line item for an Eddy Current Test. In accordance with NFPA 7.1.2.4 and DOT 49CFR the 15 year life spans of composite SCBA cylinders are required to be Hydrostatic tested with no mention of Eddy test.

Question No. 7 Section 8.0, SCBA and Oxygen Booster Contained System Locations: It noted that the heading should be changed from HFC Self-Contained SCBA locations to HFD Compressor Locations to be accurate. It was also discussed that very possibly there are 2 mobile reserve units not listed. Those are thought to be Reserve RC02 and a brand new Cascade Truck. There was also going to be clarification of a "central phone number" to contact for Station #15, Mobile.

Answer: The HPD dive team may acquire a compressor and make the change unnecessary. At this time, there are no reserve Cascade units. This is subject to change, as the City might deem necessary. A new unit is on order for HFD for the Cascade 2. With cell phones, fire stations no longer have individual dedicated private lines. Consequently, the way to reach these stations or apparatus is by use of Fire Phones, and these numbers shall be provided to Contractors, as required at the appropriate time.

Question No. 8 Section 9.0, Fit and Flow Testing (9.1, 9.2) "Firstly, the internal data including date and time involves flow testing only. These two sections need to have quite a bit of clarification. Is the City asking for a complete print out of the data within the unit, and if so, on every unit? This could result in an excessive amount of time which of course would delay flow testing and add labor hours. Are they asking that the pak be linked to the vendor's computer or a City computer? This may only be available on certain paks (1997 or newer). If it is the City's desire to have immediate access to this information, it would be much more cost effective for the City to purchase the reader (which could be quoted if needed) rather than incur labor hours to have a vendor provide this data.

Answer: The City would seek a complete print of the data from the Contractor, when requested in writing on an as needed basis. The main reason that the City may require a report, printed from the Contractor's computer, would be to review any accident(s) or fatality, in which the unit might be involved. For units that don't have this capability, the report cannot be obtained. This information is regulated by the U.S. Government and becomes evidence at times of injury or fatality. The Texas Fire Commission, NIOSH, DOT and NFPA are all involved and require that this information be readily available at their request.

Question 9 "In regards to the line items: There are several discrepancies we found in quantities. I know you mentioned that those quantities could always be adjusted by the City down the line....so I'm not sure if you even want to approach that at this point. It has been our experience that Line Items #5 and #6 have rarely (if ever) been used....if it is determined that the City does not wish to move forward with Semi-Annual" these could be removed to clean-up that list (and of course removed from the Scope of Work/Specifications.)

Line Item #11 and Line Item #14 are basically the same thing and could be combined in an effort to clean-up that list....if the City so desires."

Line Item #21 and #22 specifically mention Public Works & Engineering Department however those line items apply to all departments....so again, if the City desired that wording could be removed to clean up that list."

Answer:

In the E-Bid document for line items #5 and #6, the City shall leave these items, in case these options may be required during the contract period. Line items #11 and #14 have been modified. Line items #14 now specifies any labor not covered by line item #11. Line items #21, 22, and 23 have been changed by removing the Department of Public Works & Engineering and replacing with the words, "by any department".

Note: No further questions will be accepted after the publication of this Letter of Clarification.

When issued, Letter(s) of Clarification shall automatically become a part of the solicitation documents and shall supersede any previous specification(s) and/or provision(s) in conflict with the Letter(s) of Clarification. All revisions, responses, and answers incorporated into the Letter(s) of Clarification are collaboratively from both the Strategic Purchasing Division and the applicable City Department(s). It is the responsibility of the bidder(s)/respondent(s) to ensure that each has obtained all such letter(s). By submitting a bid on this project, bidder(s)/respondent(s) shall be deemed to have received all Letter(s) of Clarification and to have incorporated them into this solicitation and resulting bid.

Furthermore, it is the responsibility of each Contractor to obtain any previous Letter of Clarification associated with this solicitation.

Sincerely,



Casey Crossnoe
Senior Procurement Specialist
832-393-8724



SECTION B

SCOPE OF WORK/SPECIFICATIONS

INSPECTION, MAINTENANCE, REPAIRS & TESTING OF SELF-CONTAINED BREATHING AIR SYSTEMS

FOR VARIOUS DEPARTMENTS

BID INVITATION NO.: S07-L25291

NIGP CODE: 430-07

1.0 GENERAL

Contractor shall furnish all management, supervision, labor, equipment, supplies, parts (unless otherwise specified) and materials required for inspections, preventive maintenance, repairs and testing air services for Breathing Air Systems, to include but not limited to; Stationary and Mobile Breathing Air Compressors, Stationary and Mobile Cascade Storage Systems, Pressurized Breathing Air Storage Cylinders, Oxygen Transfer Boost Systems & Self Contained Breathing Apparatus, automated high pressure respiratory system used to provide NFPA 1989 2008/ CGA Grade E breathable air suitable for human respiration with self-contained breathing apparatus (SCBA) or self-contained underwater breathing apparatus (SCUBA). Contractor shall be certified to meet requirements of NFPA 1852, Standard on Selection, Care and Maintenance of Open-Circuit Self-Contained Breathing Apparatus (SCBA). Emergency service and parts shall be inclusive with this contract. Contractor shall maintain equipment in good working order and shall have replacement parts readily available. All work shall be performed by Scott certified, trained and skilled persons having experience in the type of work and equipment specified in this Exhibit. Proof of certification for the technicians shall be required with submission of bid. The bidding Contractor shall have a minimum of fifteen years of continued successful business within the specified business. The bidding Contractor shall have a minimum of two certified technicians available, in case of the absence of one certified technician during the workday. Service shall be performed during normal business hours of 7:00 a.m. – 4:00 p.m., Monday through Friday, excluding holidays designated by City Council. The departments reserve the right to have a minimum of two (2) technicians available at times to expedite completion of a project, although during special projects, additional technicians may be required. A certified technician from the Contractor shall be readily available during business hours, and a representative shall be on-call 24-hours a day. Emergency overtime shall be specified as any time other than hours between 0700 hours thru 1600 hours, Monday thru Friday. A response time shall be two (2) hours for emergency calls and eight (8) hours between 0700 and 1400 hours, Monday thru Friday. All emergency calls shall be considered on a case-by-case basis and shall be approved in writing, by the applicable department authorized representative, prior to occurrence of the work. E-mails or memorandums are acceptable for this purpose; however, text messages are not acceptable, unless they can be printed for records.

2.0 SCOPE OF SERVICES

- 2.1 Contractor shall repair the following major components of Stationary and Mobile Breathing Air Compressors, Cascade Units, two Oxygen Transfer Booster Systems and five tower units.
 - 2.1.1 Compressor Assembly
 - 2.1.2 Moisture Monitor
 - 2.1.3 Vacuum Pumps
 - 2.1.4 Moisture Monitor
 - 2.1.5 Compressor Accessories
 - 2.1.6 Carbon Monoxide Monitors
 - 2.1.7 Booster Pumps
 - 2.1.8 Air Purifier (Filter Package)
 - 2.1.9 High Pressure Air Cylinder

Contractor shall provide Stationary and Mobile Breathing Air Compressor, Cascade Units, and Tower Units preventive maintenance and certification of air samples.

- 2.2 Contractor shall provide parts and repair services of new and of current design for the appropriate manufacture of Stationary and Mobile Breathing Air Compressor, Cascade Units and two Oxygen Transfer Booster Systems. Used and/or surplus equipment is unacceptable. Due to health and safety purposes and parts availability, the Contractor shall provide services that meet or exceed the manufacturer's specification for each units.
- 2.3 For Public Works and Engineering, the Contractor shall provide for each SCBA unit a tag that will be marked during each monthly inspection, indicating the inspection dates throughout the year. Upon completion of Monthly Inspections Contractor shall provide to the City a checklist indicating each SCBA inspected that month. This checklist shall indicate whether the unit Passed/Failed inspection, and note any repairs that were made.

3.0 SERVICE PROCEDURES

- 3.1 Each system shall have an initial to obtain information on the way the air system is working, needing repair or maintenance. The Contractor shall provide a minimum of twelve (12) visits per year.
- 3.2 A logbook, which shall be provided by each City department, shall be maintained as part of the service. The logbook shall be kept on location at all times. The logbook shall include each department and division requirement. Contractor shall enter the following information about the equipment. Additional information may be required to be entered by different departments and divisions based on their individual requirements.
 - 3.2.1 Name of contractor representative making call.
 - 3.2.2 Date and time of call.
 - 3.2.3 Specify the item repaired
 - 3.2.4 Specify exactly what type of repair was made
 - 3.2.5 Specify what action and parts were required for the maintenance or repair.
 - 3.2.6 List how often repair and service has been made to the item.
 - 3.2.7 List customer questions, comments and complaints.
 - 3.2.8 Specify and ensure that City tax number was utilized.
 - 3.2.9 SRO number
- 3.3 The master price list of the proposed discounted parts for preventative maintenance supplied by the Contractor shall consist of purifier cartridges, hydrostatic test, mechanical separator elements, chemical cartridges, o-rings and back-up rings, intake filters and oils. In certain instances, repair parts may not be available through the manufacturer. In those individual events, the contractor shall order the parts from other sources than the manufacturer price list to maintain the prompt repair of the equipment. In the event that a part is unavailable and requires shipment from other sources, the departments reserve the right to request overnight shipment for prompt repair of equipment. The departments shall be responsible for payment of the expedited service, but the departments must provide prior approval from an authorized departmental representative.
- 3.4 All paperwork shall be submitted with invoices in regards to any discrepancies, inspection, and repairs, parts used, recommendations or results. It shall contain SRO number and any tickets for parts. This shall be well highlighted, so that there is no difficulty for each department to compare and understand the attachment paperwork.
- 3.5 All work performed shall include parts, labor, travel, and shipping rates as they apply to routine service and approved repairs and upgrades.

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- 3.6 No repairs or upgrades, beyond contract routine service shall be done until a written, detailed estimate is approved, and a purchase order is issued. Provisions for emergency repairs shall be listed separately, if different from scheduled work.
- 3.7 Emergency service shall not exceed 24-hour response time (Warranty Work Not Included) and shall consist of discounted proposed master parts price list for any quantity as needed per manufacturer's specifications of each unit.
- 3.8 No repairs or upgrades, beyond contract routine service shall be done until a written, detailed estimate is approved, and a purchase order is issued. Provisions for emergency repairs shall be listed separately, if different from scheduled work.
- 3.9 Emergency service shall not exceed 24-hour response time (Warranty Work Not Included) and shall consist of discounted proposed master parts price list for any quantity as needed per manufacturer's specifications of each unit.

4.0 PREVENTIVE MAINTENANCE/INSPECTION

4.1 Monthly Requirement

Contractor shall perform the following inspections every month. First service period shall be scheduled by the City, thereafter by the Contractor.

- 4.1.1 Check electrical power and provide rotation
- 4.1.2 Check air take (remote)
- 4.1.3 Check air intake filter and rotate
- 4.1.4 Check oil level and add oil if necessary
- 4.1.5 Change oil and oil filter as required
- 4.1.6 Clean compressor and other system components
- 4.1.7 Check interstage filters
- 4.1.8 Inspect drive belts and check tension
- 4.1.9 Inspect electric motor
- 4.1.10 Check compressor flywheel
- 4.1.11 Check for loose nuts, bolts, and other fasteners
- 4.1.12 Check for loose electrical and instrumentation wires
- 4.1.13 Check for cartridge change indicator
- 4.1.14 Check readings on moisture monitor and/or carbon monoxide monitor
- 4.1.15 Check purifier chambers and leaks
- 4.1.16 Inspect flex hoses for hicks, cuts abrasions, or other signs of possible damage
- 4.1.17 Check fill connectors
- 4.1.18 Check filler *valves* and bleeder *valves*
- 4.1.19 Check mechanical separator
- 4.1.20 Check each purifier chamber and replace cartridges as needed
- 4.1.21 Check all gauges for leaks and pressures

4.2 Additional Monthly Requirements for Public Works & Engineering

- 4.2.1 Contractor shall perform SCOTT SCBA Monthly Inspection. The inspection shall comply with applicable OSHA &/or NIOSH Standards/Guidelines.
- 4.2.2 Contractor shall note needed repairs for SCBA, shall perform needed repairs, and conduct post repair Flow Testing that shall meet the manufacturers guidelines, as applicable to OSHA &/or NIOSH Standards/Guidelines. Contractors standard labor rate shall apply.
- 4.2.3 Contractor shall visually inspect SCBA cylinders to check for deficiencies, and for hydrostatic testing needs.

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- 4.2.4 Contractor shall remove from service all SCBA cylinders that are in need of repair and or hydrostatic testing. Hydrostatic testing shall be in compliance with 4.10 of this contract.
- 4.2.5 Contractor shall provide "Fill & Leak Check" services for SCBA cylinders that are not full upon Monthly Inspection. As requested by departmental representative, there shall be two (2) leak tests during the fill process, one while the cylinder is filling and another on the cylinder, after they have been filled. This test must be done on each requested cylinder, to ensure that the contents of the cylinder is not leaking and that the user shall receive the full contents in the cylinder.
- 4.2.6 Contractor shall perform SCBA Monthly Inspections "On Site". The first service period shall be scheduled by the City, thereafter by the Contractor.

4.3 Bi-Monthly Requirement (Oxygen Transfer Boost system only)

Contractor shall perform the following Preventive Maintenance "on-site" bi-monthly (every two months). The first service period shall be scheduled by the City, thereafter by the Contractor.

4.4 Air Certification (Minimum Standards)

- 4.4.1 Clean manifold, pigtailed and booster of any dust, dirt or other debris.
- 4.4.2 Visually inspect gauges and pigtailed for damage or wear.
- 4.4.3 Replace, if needed.
- 4.4.4 Pressurize the system and check for leaks using OEM approved leak test solution.
- 4.4.5 Repair leaks if not within OEM tolerances.
- 4.4.6 Check shut off valves for packing leakage repair as needed or perform annual PM

4.5 Quarterly Requirement

Contractor shall perform the following Preventive Maintenance "on-site" every three (3) months. The first service period shall be scheduled by the City, thereafter by the Contractor.

4.5.1 Air Certification (Minimum Standards)

- 4.5.1.1 All breathing air quality verification testing, as specified in Chapters 5 and 6 of NFPA 1989 2008, shall be performed by a laboratory that is accredited for testing compressed breathing air by an accreditation body in accordance with ISO 17025.
- 4.5.1.2 General requirements for the competence of calibration and testing laboratories.
- 4.5.1.3 The accreditation body shall meet the requirement for an accreditation program specified in section 4.2 of the NFPA 1989, 2008 edition.
- 4.5.1.4 The air-testing laboratories must provide a certification for display at compressor sites.
- 4.5.2 Contractor shall perform Quarterly Carbon Monoxide Monitor Calibration "on-site" every three months (Quarterly) throughout the year.
- 4.5.3 Carbon Monoxide Monitor Calibration shall meet or exceed the manufacturer's specifications for each unit, and shall be in compliance with the latest regulation and standards for NIOSH, OSHA, NFPA 1989 2008/ CGA Grade E and the Texas Commission on Fire Protection; as well as, the policies of each Department and the City of Houston Fire Department.

4.6 **Semi-Annual Requirements (Twice A Year)**

Contractor shall perform the following preventive maintenance "on-site" bi-annually. This is defined as twice annually or once every six months. The first service period shall be scheduled by the City, thereafter by the Contractor.

- 4.6.1 Change mechanical separator element
- 4.6.2 Rebuild auto drain system
- 4.6.3 Change purification cartridges after 50 to 70 hours of run time and replace all o-rings, back-up rings, and interstage-trap check valves

4.7 **Annual Requirements**

Contractor shall perform the following preventive maintenance, for which comes first, either on-site annually, or at each 100 hours of operational time for Stationary and Mobile Breathing Air Compressors. The first service period shall be scheduled by the City, and thereafter by the Contractor.

- 4.7.1 Change oil
- 4.7.2 Change intake filters
- 4.7.3 Provide third and fourth stage valve replacement as per manufacturer's specifications on replacement of said items.

4.8 **Annual Requirement for the Oxygen Transfer Booster Systems**

Contractor shall perform the following preventive maintenance, on site, annually. The first service period shall be scheduled by the City, thereafter by the Contractor.

- 4.8.1 Overhaul vacuum pump and booster
- 4.8.2 Remove heads replace valve springs and ball; check seats for wear and replace as needed.
- 4.8.3 Check piston guide and replace, if needed.
- 4.8.4 Check piston for side to-side movement repair, if not within OEM tolerances. All repairs shall be performed according to OEM recommendation and specifications.
- 4.8.5 Check piston for wear and polish and replace if needed.
- 4.8.6 Check counter weights for proper location/alignment.
- 4.8.7 Check rod bearings for wear alignment and clearances. If not within OEM tolerances, it shall be replaced.
- 4.8.8 Always install new seals and o-rings.
- 4.8.9 Always follow OEM specifications for tolerances and torque, where applicable.
- 4.8.10 Replace in line filter. Filter shall be OEM or equal.
- 4.8.11 System shall be pressure tested according to OEM specifications. All testing shall comply with the latest rules and regulations of OSHA, NFPA 1989 2008/ CGA Grade E Standards and Texas Fire Commission.
- 4.8.12 Oxygen booster shall be sent to manufacturer for annual certification, when requested and approved by an authorized departmental representative.
- 4.8.13 Gauge shall be replaced or recalled annually with certificate provided.

4.9 **Quarterly Requirement for Carbon Monoxide Monitor Calibration**

Contractor shall perform the following preventive maintenance, on-site, quarterly. The first service period shall be scheduled by the City, thereafter by the Contractor.

- 4.9.1 Check calibration gases
- 4.9.2 Check filter
- 4.9.3 Check cell
- 4.9.4 Check pilot lights
- 4.9.5 Calibrate unit

4.10 Hydrostatic Test

The U.S. Department of Transportation requires hydrostatic testing for SCBA cylinders on a periodic basis and limits the number of years that a cylinder can be used in order to meet regulation.

4.10.1 Aluminums, steel, and carbon-fiber cylinders must be hydrostatically tested every five years.

4.10.2 Kevlar aramid (p-phenylene terephthalamide) or fiberglass fibers must be tested every three years.

4.10.3 DOT Storage Cylinder(s) shall be tested every five (5) years.

4.11 Annual Requirement for Tower Inspection

4.11.1 Drain storage cylinder & refill.

4.11.2 Check for all air leaks.

4.11.3 Check regulator & filter for proper operation.

4.11.4 Replace gauge & fitting as needed.

4.11.5 All work must be perform on the designated site, which will be specified at time of service.

5.0 RESPONSE TIME

5.1 Contractor shall forward sampling equipment to the appropriate "ship to" contact within two (2) calendar days of notification by the requester, and equipment shall be shipped via Federal Express or comparable means.

5.2 Analysis shall be complete within 24 hours of receipt of sample at the Contractor's laboratory.

5.3 Testing facility shall provide online access to the City to determine test analysis/results.

6.0 NOTIFICATION

Results shall be compared to required air specifications. Verbal results shall be given on all samples that do not meet air specifications within 24 hours of receipt, and results shall be followed by a printed report within 72 hours of the sample at the laboratory. Reports must contain the following:

6.1 Individual report number

6.2 Identification of the location the sample was taken.

6.3 Date sample analyzed, including name and address of analytical laboratory

6.4 Name of person conducting the laboratory analysis

6.5 The source air results reported by the components listed above

6.6 The ambient air results reported by the components listed above

6.7 The components of the required air specification listed and a comment section clearly stating what problems are found if the test does not meet the required air specification.

7.0 QUALITY CONTROL AND QUALITY ASSURANCE (QC and QA)

7.1 The air testing laboratory must provide and follow a documented QA/QC manual which has been approved by the specific testing laboratory accreditation source.

7.2 The Contractor shall furnish the air compressor parts, if the required parts are not available in the City's inventory.

7.3 Contractor shall maintain a stock of commonly used service parts to ensure immediate availability and have a system in place that will ensure the repair parts are on-hand for installation within 24 hours.

7.4 Contractor shall supply all OEM parts, or parts meeting OEM specifications, for all repair work.

7.5 At times the City may elect to purchase parts only, no repair required. Purchased parts may include, but are not limited to, bulbs, gaskets, etc.

- 7.6 In some instances, if repair cost exceeds replacement costs, the City may elect to purchase small equipment (under \$400 in value, e.g.: microwaves, stir plates, etc.) from Contractor.
- 7.7 All parts and equipment shall be based on Contractor's mark-up/discount, in Exhibit "H", Fee Schedule.
- 7.8 The Contractor shall furnish SCBA Parts for PWE if the required parts are not available in the PWE Inventory.
- 7.9 Contractor shall supply parts for SCBA that are based on the Contractors mark-up/discount, in Exhibit "H", Fee Schedule.

8.0 SCBA AND OXYGEN BOOSTER SYSTEMS LOCATIONS

The following are the locations of SCBA and Oxygen Booster Systems within the City of Houston. The City of Houston reserves the right to make changes to the locations and contact information during the contract term. SCBA are constructed by a major manufacturer such as Bauer, Eagle, Scott, Ingersoll-Rand, or a combination thereof. The Oxygen Booster Systems are constructed by Master Line, Inc. and Gast Corporation. As technology progresses for all City departments, especially related to HFD, many station houses and mobile apparatus may experience phone number changes from stationary phones to cell phones. Updated numbers and contacts shall be provided to Contractor, as the changes and updates are implemented.

HFD Self-Contained SCBA Locations: (Subject to change during contract period)

Location	Unit Type	Address	Key Map	Phone
Air Pack Shop	Stationary	1205 Dart	493L	713-247-5070
Training Academy	Stationary	8030 Braniff	575B	713-640-0300
Station 5	Stationary	5020 Hollister	450R	713-932-6326 or 713-932-6142
Station 11	Stationary	460 T.C. Jester	492C	713-880-1800
Station 64	Stationary	3000 Greens Rd.	373N	713-590-8124 or 713-590-8827
Station 75	Stationary	1995 Dairy.Ashford	488R	713-558-7105 or 713-558-7195
Station 102	Stationary	02 W. Lake Houston Pk	297T	713-361-7451
Station 2	Mobile	588 Woodway	491K	713-977-4393 or 713-977-4394
Station 23	Mobile	8005 Lawndale	535B	713-924-4866 or 713-923-8806
Station 15	Mobile	6702 Irvington	453Q	
Station 81	Stationary	7990 Paul B. Koonce St.	575K	713-845-6881
Station 99	Stationary	18580 Chanute Rd.	373H	281-233-7930
Training	Mobile	8030 Braniff	575B	713-640-0300

PW&E Inspection Locations: (Subject to change during contract period)

Location Unit Type	Address	Key Map	Phone
Street & Drainage Facility Building "C"	5500 McCarty Road Houston, TX 77013	455V	832-395-4722
Cullen Wastewater Facility	7440 Cullen Blvd Houston, TX 77051	533V	832-395-3594
East Water Purification Plant (EWPP) Drinking Water Operations	2300 Federal Road Houston, TX 77015	493L	832-395-2854
Ardmore Drinking Water Facility Drinking Water Operations	7004 Ardmore Houston, TX 77054	533K	832-395-2854
Southeast Water Purification (SEWPP) Drinking Water Operations	3100 Genoa Red Bluff Houston, TX 77034	577M	832-395-5660

Location Unit Type	Address	Key Map	Phone
Northeast Water Purification Plant NEWPP Northeast Water	2121 N. Sam Houston Parkway East Humble, TX 77348	377W	832-395-3769
Wastewater Collections Facility Building "E"	100 Japhet Street Houston, TX 77020	494L	832-395-4300
Spring Branch Plant Drinking Water Operations	9400 Kempwood Houston, TX 77080	450M	832-395-2854

These sites are used for Public Works and Engineering as inspection locations and the vendor will coordinate with the department representatives on the locations where inspection(s) are being held.

9.0 FIT AND FLOW TESTING

- 9.1 Contractor shall administer fit and flow tests to include checking and setting the internal unit clocks with the accurate time and date, in accordance with manufacturer's recommendations. The City recognizes that this can only be completed with units that have this capability.
- 9.2 The SCBA shall be computer linked, on apparatus equipped with an RF (radio frequency) device, so that it can be updated if the ability exists in the unit. Therefore, it shall be able to work with Scott products and meet Scott compliance.
- 9.3 The dates, times and location of the fit and flow tests shall be determined by the department representatives in conjunction with the Contractor.
- 9.4 By utilizing the data from any capable unit, information may be downloaded for review. Contractor shall be responsible for providing documentation pertaining to test results, when/if it may be requested in writing on a case by case basis. The Contractor shall present the requested findings to the respective departments, in accordance with the Texas Fire Commission standards. Reports are not required for every instance; however, the Departments want to ensure that any capable units meet compliance, so that accurate data may be downloaded from any able unit. Any pak may be linked to any capable computer to read data.
- 9.5 Test information shall be furnished in a timely manner, and no later than ten (10) days after completion of the fit or flow test.
- 9.6 Contractor shall administer fit and flow tests to PW&E and/or HPD, as specified herein, and/or as requested by each department.

10.0 ANNUAL FLOW TESTING SCOPE OF SERVICES

- 10.1 Contractor shall perform flow testing on SCBA Air Packs and regulators. The Airpack Section of The Houston Fire Department (HFD) shall provide the contractor with extra air packs and regulators to exchange, in the event that a failure is discovered at the station.
- 10.2 The Houston Fire Department (HFD) is responsible for repair of any Airpack or regulator that fails the test.
- 10.3 Only Scott certified and trained personnel, that have previous experience in the type of work and equipment specified, shall perform all testing.
- 10.4 Prior to testing, contractor shall provide the appropriate Distribution Center staff located at 1205 Dart St. with the names of testers and copies of their certifications. Testing shall be performed on approximately 1000 SCBA Air Packs and regulators.
- 10.5 There shall be approximately a 10% increase per year in SCBA equipment.
- 10.6 Flow testing shall be performed annually.
- 10.7 Testing shall be scheduled by the City, in conjunction with the Contractor, in order to facilitate expedited completion of each work order.
- 10.8 Testing shall begin within one week after receipt of work order.
- 10.9 Testing for each district must be completed within 60 days of receipt of work order for said district.

- 10.10 Testing shall be performed at the District Stations on the A, B, C and D shifts.
- 10.11 District stations will be responsible for calling in all the stations in their District for testing.
- 10.12 The flow testing must be performed with a calibrated Posicheck III machine using the Scott Health and Safety Software and in accordance with the latest rules and regulations of OSHA, NFPA 1989 2008/ CGA Grade E Standards and the Texas Fire Commission.
- 10.13 Upon the completion of all testing, the contractor will submit a hard disk (non-recordable CD, flash Media, or in a portable data storage device) of the test results to the HFD Airpack Section. This information will include user date, i.e. name, employee payroll number, testing location, as well as time and date of testing.
- 10.14 Annual Flow Testing for PWE shall be conducted at Inspection Locations listed for PWE in 8.0 of this contract. During the Annual Flow Testing for PWE, the Contractor shall provide Flow Testing and repair services that shall meet the Manufacturers Guidelines, as well as applicable OSHA &/or NIOSH Guidelines. Contractors Standard Labor Rate shall apply for repairs.

11.0 ANNUAL FIT TESTING SCOPE OF SERVICES

- 11.1 Contractor shall perform Fit Testing of face pieces. Contractor shall be provided by the HFD with extra face pieces for exchange in the event of a failure. The HFD is responsible for repair of face pieces that fail the test.
- 11.2 Only Scott Air-Pak certified and trained personnel, having experience in the type of work and equipment specified, shall perform all testing. Prior to testing, contractor shall provide to The HFD Procurement section, located at 1205 Dart St. with the names of testers and copies of their certifications.
- 11.3 Testing shall be performed on approximately 4,000 firefighters in suppression and 300 graduating cadets annually.
- 11.4 District stations shall be responsible for calling in all the stations in their District for testing.
- 11.5 HFD shall provide roster of firefighters to be tested. Fit testing shall be performed annually.
- 11.6 Testing shall be scheduled by the City, in conjunction with the Contractor in order to facilitate expedited completion of each work order. Testing shall begin within one week of receipt of work order.
- 11.7 Testing for all firefighters in each District shall be completed within 60 days after receipt of the work order for each district. Testing for cadets must be completed before they go to their assigned stations.
- 11.8 Testing of firefighter's face pieces will be performed at the District Stations on the A, B, C and D Shifts. Testing for the cadets will be performed at the academy.
- 11.9 The face pieces for the 2000 and 3000 models must be fit tested by a Porta count, FIT TEST 3000, or most appropriate current testing machine using Trust, Science, Innovation (TSI) and in accordance with the latest rules and regulation of OSHA, NFPA 1989 2008/ CGA Grade E Standards and Texas Fire Commission.
- 11.10 Upon completion of all testing, the contractor will submit a hard disk (non-recordable CD, flash Media, or in a portable data storage device) of the test results to the HFD Airpack section at 1205 Dart St. for each shift. This information will include user date, i.e. name and employee payroll number, testing location, as well as time and date of testing.
- 11.11 Contractor shall perform fit tests for PW&E and HPD, as needed.

12.0 TRAINING

- 12.1 Contractor shall perform training to HFD employees, as required, for fill station operations and cylinder inspections. The training shall be implemented by certified technicians through an accredited training program.
- 12.2 The Contractor shall supply a certificate of certification for each participant in no less than 30 days from completing the training. The Contractor shall supply temporary certificates to be issued immediately upon satisfactory completion of training by the Houston Fire Department participants.
- 12.3 The class dates, time and locations shall be determined by the Houston Fire Department in agreement with the Contractor.