Agency: Commerce, Community and Economic Development

Grants to Municipalities (AS 37.05.315)

Grant Recipient: Houston

Project Title:

Houston - Fire Department Replacement of Substandard Personal Protective Equipment

State Funding Requested: $ 30,000 **House District:** 15 - H

One-Time Need

Brief Project Description:

Replacement of substandard personal protective equipment with equipment that meets or exceeds National Fire Protection Agency standards.

Funding Plan:

Total Cost of Project: $35,121

	Funding Secured		Other Pending Requests		Anticipated Future Need	
	Amount	*FY*	*Amount*	*FY*	*Amount*	*FY*
Local Funds					$5,121	09
Total					$5,121	

Detailed Project Description and Justification:

The Houston Fire Department currently is using personal protective equipment that is outdated and does not meet current safety standards as set out by the National Fire Protection Agency. This substandard equipment endangers the lives and safety of Houston emergency personnel. This project would fund the purchase of new personal protective equipment that meets nationally recognized standards.

Project Timeline:

FY09

Entity Responsible for the Ongoing Operation and Maintenance of this Project:

City of Houston

Grant Recipient Contact Information:

Contact Name: Thomas L. Hood
Address: City of Houston
P.O. Box 940027
Houston, AK 99694
Telephone: 907-892-6869
Email: cityhall@mtaonline.net

For use by Co-chair Staff Only:

Contact Name: Rex Shattuck
Contact Number: 907-465-2679

4:14 PM 4/29/2008

FY 2009 Capital Budget TPS Report 49353

Has this project been through a public review process at the local level and is it a community priority? [X] Yes [ ] No

Contact Name: Rex Shattuck
Contact Number: 907-465-2679

For use by Co-chair Staff Only:

4:14 PM 4/29/2008

City of Houston, Alaska
Office of the Fire Chief
Thomas L Hood

February 13th, 2008

To Senator Huggins
RE: Grant Justifications
FY2008

Dear Senator,

The Houston Fire Department has many needs in the area of equipment to be able to meet NFPA (National Fire Protection Agency) standards. One standard that we are lacking in is NFPA Standards 1971 which covers structural firefighting gear.

Since Houston Fire Department has not purchased new gear in some time, most of our PPE (personal protection equipment) needs to be replaced with new NFPA Standards, covering the "DRD" (drag rescue device). In chapter 6 – 6.1.9.1 thru 6.1.9.1.5 (See attachment) the design requirements states: that the "DRD" needs to be in place to meet NFPA standards. To date, none of our structural firefighting gear (PPE) including helmets, boots, gloves and nomex hoods, meets NFPA standards. (See attachments for prices.) This puts our firefighter's lives in jeopardy. We currently have 23 firefighters at Houston Fire Department, Station 91.

Please consider our request for grant monies for the FY2008 budget.

Sincerely Yours,

Thomas L. Hood
Chief
Houston FD

Attachments

TLH/dlh

5.4.7 For protective ensembles certified to the optional CBRN requirements, the manufacturer shall provide the following additional instruction and information with the ensemble:

(1) A statement that only the ensemble and the specific elements with which the ensemble has been certified must be worn together to ensure that the optional CBRN protection is provided.
(2) A list of the specific elements and interface components that must be worn as part of the CBRN ensemble, including each type of CBRN SCBA that the ensemble has been certified with.
(3) Specific limitations associated with the use of the ensemble for a response involving CBRN hazards, including but not limited to a statement that protection against radiological and nuclear hazards is limited to particulates only.
(4) Specific care and maintenance provisions associated with properly maintaining the unique performance properties of the ensemble, its elements, or interface components.
(5) A statement that if the ensemble is used in an emergency involving CBRN hazards that the ensemble be retired from use and not be further used.
(6) When the optional requirements for CBRN protection necessitate a specific action to engage interface areas, the manufacturer shall provide details explaining those procedures.

Chapter 6 Design Requirements

6.1* Protective Garment Element Design Requirements for Both Ensembles.

6.1.1 Protective garment elements shall have at least the applicable design requirements specified in this section where inspected and evaluated by the certification organization as specified in Section 4.9, Inspection and Testing.

6.1.1.1 For coveralls, the portion of the coverall that corresponds to the coat shall meet all garment requirements and all requirements specified for coat elements of this section.

6.1.1.2 For coveralls, the portion of the coverall that corresponds to the trouser shall meet all garment requirements and all requirements specified for trouser elements of this section.

6.1.2* Garments shall consist of a composite of an outer shell, moisture barrier, and thermal barrier.

6.1.2.1 The composite specified in 6.1.2 shall be permitted to be configured as a single layer or multiple layers.

6.1.2.2 Supplemental garments that are provided to meet the performance requirements of this standard but are not intended to be worn continuously with the wearing of the garment element shall not be permitted.

6.1.3* Garments shall have a means of securing the moisture barrier and thermal barrier to the outer shell.

6.1.4 Garment moisture barriers and thermal barriers, or materials meeting the performance requirements of these components, shall extend at least to the neckline seam of coats, at least to the waistline seam of trousers, and shall extend at least to within 75 mm (3 in.) of the bottom outer shell hems of both coats and trousers.

6.1.4.1 For coats, the moisture barriers and thermal barriers, or materials meeting the performance requirements of these components, shall extend at least to within 25 mm (1 in.) of the sleeve ends of the outer shell and shall be attached at or adjacent to the end of the coat sleeves, unless those barrier layers terminate at a glove interface device that provides continuous thermal protection.

6.1.4.2 For trousers, moisture barriers and thermal barriers, or materials meeting the performance requirements of these components, shall be attached to the trouser legs, unless those barrier layers terminate in booties.

6.1.4.3 Any mechanism used to attach the liner system to the coat sleeves or trouser legs shall not be greater than 25 mm (1 in.) between the attachment points, and the mechanism and attachment points shall not be expandable.

6.1.5 Garments and their closure systems, including the coat front and the trouser fly, shall be constructed in a manner that provides continuous moisture and thermal protection.

6.1.5.1 Such closure systems shall be secured with positive locking fasteners including, but not limited to, hooks and dees or zippers.

6.1.5.2 Nonpositive fasteners, such as snaps or hook and pile tape, shall not be used as positive locking fasteners but shall be permitted to be utilized as supplementary garment closure devices.

6.1.5.3 Snaps shall be Style 2 and shall comply with the design and construction requirements of MIL-F-10884F. The construction of the snap shall be permitted to vary from the MIL-F-10884F drawings with regard to the attachment means and use of logos on the caps.

6.1.5.4 Zippers shall meet the physical performance requirements of A-A-55634, *Commercial Item Description, Zippers (Fasteners, Slide, Interlocking)*.

6.1.5.5 Hooks and dees shall be nonferrous. Hooks shall be inward facing and shall have at least three attachment points. Dees shall have at least two attachment points.

6.1.5.6 Aramid hook and pile fastener tapes shall not be permitted.

6.1.6 All garment hardware finishes shall be free of rough spots, burrs, or sharp edges.

6.1.7 All sewing thread utilized in the construction of garments and the DRDs shall be made of an inherently flame-resistant fiber.

6.1.8* Garment cargo pockets, where provided, shall have a means to drain water and shall have a means of fastening in the closed position.

6.1.9 Coats shall be designed to provide protection to the upper torso, neck, arms, and wrists, excluding the hands and head.

6.1.9.1 Each coat element shall have a DRD installed in the upper torso portion of the element.

6.1.9.1.1 The DRD shall be accessible from the exterior of the garment.

6.1.9.1.2 The DRD shall be easily accessible for deployment, shall be designed to minimize the risk of accidental deployment, and shall allow for visual inspection.

6.1.9.1.3 The DRD shall be fully functional and shall not require any subsequent actions in order to be used, other than

deploying the DRD, when the garment is donned in accordance with the manufacturer's instructions.

6.1.9.1.4 The DRD shall be designed to allow deployment and operation of the DRD while the incapacitated fire fighter is wearing an SCBA.

6.1.9.1.5 The DRD shall be designed so that when deployed, the DRD secures the fire fighter by the upper torso or shoulders so that the DRD pulls directly on the body and shall not pull only the garment.

6.1.9.2* Each coat sleeve shall have a protective wristlet or other interface component permanently attached to the coat sleeve.

6.1.9.2.1 The wristlet or other garment sleeve interface component shall be designed so that it will not permit a gap in thermal protection.

6.1.9.2.2 The wristlet or other garment sleeve interface component shall meet the requirements specified in Section 6.10, Protective Wristlet Interface Component Design Requirements for Both Ensembles.

6.1.9.3 Coats shall have a composite collar at least 75 mm (3 in.) in height at any point when measured from the top of the collar down.

6.1.9.3.1 The collar shall incorporate a closure system.

6.1.9.3.2 The collar and closure system shall consist of an outer shell, a moisture barrier, and a thermal barrier, or of a composite that meets all applicable performance requirements specified in Section 7.1, Protective Garment Performance Requirements for Both Ensembles.

6.1.9.3.3 Where a hood is permanently attached to the coat, a collar shall not be required.

6.1.9.3.4 Where a hood is permanently attached to the coat, it shall meet the requirement of 6.1.9.3.1 and at least the bottom 75 mm (3 in.) of the hood shall meet the requirement of 6.1.9.3.2.

6.1.9.4 Coat hardware shall not penetrate through the outer shell, moisture barrier, and thermal barrier to contact the wearer's body when the coat is worn with the closures fastened, unless the hardware is completely covered by external closure flaps.

6.1.10 Trousers shall be designed to provide protection to the lower torso and legs, excluding the ankles and feet.

6.1.10.1 Trousers shall be permitted to include integrated booties to protect the wearer's feet in conjunction with outer footwear.

6.1.10.2 Where trousers incorporate booties, the booties shall be designed as an extension of the trouser leg and shall cover the entire foot and ankle.

6.1.10.3 Trouser hardware shall not penetrate through the outer shell, moisture barrier, and thermal barrier to come into contact with the wearer's body when the trouser is worn with the closures fastened, unless the hardware is located on or above the waistline or hardware is completely covered by external closure flaps.

6.1.11* In order to label a coat, trouser, or coverall as compliant with this standard, the manufacturer shall provide coats, trousers, or coveralls in the size ranges specified in Table 6.1.11.

6.1.11.1 The sizing increments for the ranges specified in Table 6.1.11 for men's and women's chest sizes shall be in increments no greater than 50 mm (2 in.), sleeve lengths shall be in increments no greater than 25 mm (1 in.), men's and women's waist sizes shall be in increments no greater than 50 mm (2 in.), and inseam lengths shall be in increments no greater than 50 mm (2 in.).

6.1.11.2 Men's and women's sizing shall be accomplished by men's and women's individual patterns.

6.2 Additional Design Requirements for Structural Fire Fighting Protective Garment Elements Only.

6.2.1 Structural fire fighting protective garment elements shall also have at least the applicable design requirements specified in this section in addition to the design requirements specified in Section 6.1, Protective Garment Element Design Requirements for Both Ensembles, where inspected and evaluated by the certification organization as specified in Section 4.3, Inspection and Testing.

6.2.2* Garments shall have fluorescent and retroreflective trim permanently attached to the outer shells of garments to meet visibility requirements.

6.2.2.1 Trim shall be at least 50 mm (2 in.) wide and shall have both retroreflective and fluorescent surfaces.

6.2.2.2 The retroreflective surface of trim shall be at least 16 mm (⅝ in.) wide.

6.2.2.3 Trim used to meet the minimum trim pattern requirements shall have a minimum fluorescent surface of 50 mm^2/linear mm (2 $in.^2$/linear in.) of trim.

6.2.2.4 The fluorescent and retroreflective areas of trim specified in 6.2.2.2 and 6.2.2.3 shall appear to be continuous at a distance of 30.5 m (100 ft) for the length of the trim, with gaps of not more than 5 mm (⅛ in.).

Table 6.1.11 Available Coat/Trouser Size Ranges

	Men		Women		Increment	
Dimension	mm	in.	mm	in.	mm	in.
Chest	865–1525	34–60	710–1270	28–50	50	2
Sleeve	820–965	32–38	710–865	28–34	25	1
Waist	760–1525	30–60	710–1270	28–50	50	2
Inseam	660–915	26–36	610–865	24–34	50	2

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Item #	Description	Cost Each
INN05222C	Innotex Bunker Coat (Advance)	$743.86
INN05222P	Innotex Bunker Pants (Advance)	$482.88
8076003	Thorogood Structural Rubber Boots	$86.70
YFX	Bullard Firedome Structural Helmet	$154.99
5228FDP	Shelby Koala Tan Gauntlet Fire Glove (Ever Soft)	$41.40
PAC1A28NB	Majestic Nomex Fire Hood	$17.00
	Total Package Price	$1526.83

Please note these are package prices only. Prices listed above cannot be honored if entire package is not purchased.

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