


**TO:** James L. App, City Manager  
**FROM:** Ken Johnson, ES Chief   
**SUBJECT:** Dual Agent Crash Fire Rescue Unit Purchase  
**DATE:** September 7, 2004

---

**NEEDS:** For the City Council to consider authorizing the purchase of a dual agent crash fire rescue unit.

- FACTS:**
1. Council Resolution 04-167 authorized the acceptance of a Federal Aviation Administration Grant in the amount of \$62,600.
  2. Approximately \$37,495 of the grant funds were allocated to a dual agent crash fire rescue unit, as specified in the grant application.
  3. Purchasing and Payment Procedure Manual Section 7.0 allows for the use of sole source vendors when the City's purchasing authority believes the City's best interests are served by a particular vendor.

**ANALYSIS &**

**CONCLUSION:** The recommended vendor (Crash Rescue Equipment, Inc.) is the sole provider of dual agent crash fire units that would fit the existing vehicle meeting the requirements of Federal Air Regulations Part 139. The price quote includes the dual agent unit, bumper turret, installation, and operator training.

Staff recommends acceptance of the quote for \$37,495, submitted by Crash Rescue Equipment, Inc., and authorize the purchase of the dual agent crash fire unit specified above.

**POLICY**

**REFERENCE:** Purchasing and Payment Procedures Manual, Section 7.0  
Council Resolution 04-167

**FISCAL**

**IMPACT:** \$37,495 (previously allocated in account 602-310-5454-166); of which \$35,620 represents Federal Aviation Administration grant funds, \$1,687 represents State Department of Transportation Aeronautics program funds, and \$188 Airport Operations Fund monies earlier approved by Council in Resolutions 04-167 and 04-177.

The remaining balance of the grant funds, \$26,980, will be expended for equipment, travel, and training relative to the apparatus.

- OPTIONS:**
- a. Adopt Resolution No. 04-xx authorizing Emergency Services to purchase a dual agent crash fire rescue unit for \$37,495 from Crash Rescue Equipment, Inc., the sole source provider; or
  - b. Amend, modify or reject above option.

RESOLUTION NO. 04-

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF PASO ROBLES  
AUTHORIZING THE PURCHASE OF A DUAL AGENT CRASH FIRE RESCUE UNIT

---

WHEREAS, Council Resolution 04-167 authorized the acceptance of a Federal Aviation Administration Grant in the amount of \$62,600; and

WHEREAS, \$37,495 of the grant funds were allocated to purchase a dual agent crash fire rescue unit; and

WHEREAS, the City has determined that Crash Rescue Equipment Service, Inc. is the sole provider of such equipment; and

WHEREAS, Crash Rescue Equipment Service, Inc. submitted a quotation of \$37,495.

THEREFORE, BE IT HEREBY RESOLVED that the City Council of the City of El Paso de Robles authorizes the Chief of Emergency Services to purchase a dual agent crash fire rescue unit for \$37,495 from Crash Rescue Equipment Service, Inc..

PASSED AND ADOPTED by the City Council of the City of Paso Robles this 7th day of September 2004 by the following vote:

AYES:  
NOES:  
ABSTAIN:  
ABSENT:

ATTEST:

---

Frank R. Mecham, Mayor

---

Sharilyn M. Ryan, Deputy City Clerk



*Paso Robles Department of Emergency Services*

---

**To:** Ken Johnson, Chief  
**From:** Kevin Taylor, Battalion Chief (KT)  
**Date:** August 9, 2004  
**Subject:** Sole Source Vendor (Purchase Order Number 05FD002)

---

I recommend that we purchase the Crash Fire Rescue Slip-In Dual Agent unit for Rescue 8153 via the Sole Source Vendor provision in the Purchasing and Payment Procedures Manual. This unit is funded 95% by the FAA Grant received June 1, 2004 and 5% by monies allocated to the Airport Operations Fund via Council Resolution 04-167.

Section 7.0 – Sole Source Vendors states:

*In the case of sole source vendors, quotation and bid requirements may be waived by the City's purchasing authority when in his judgment the City is best served by a particular vendor.*

*The executive manager shall submit a purchase order and written explanation as to justification of sole sourcing to the City's purchasing authority for approval. If approved by the purchasing authority, a copy of the written explanation shall be attached to the copy of the purchase order that is forwarded to Administrative Services.*

Justification for use of the sole source vendor provision includes:

1. The recommended vendor (Crash Rescue Equipment Service, Inc.) is the sole provider of slip-in dual agent crash fire units that fit Rescue 8153 and meet the requirements of Federal Air Regulation Part 139.
2. The unit is equipped with a bumper turret allowing simultaneous agent application by the vehicle operator and hand line operation by the firefighter.
3. The quote includes installation and operator training in Dallas, TX.

A purchase order is attached. Please contact me with any questions or comments.



# City of El Paso de Robles

"The Pass of the Oaks"

1000 Spring Street, Paso Robles, CA 93446  
 (805) 237-3999 Fax (805) 237-6565

This number must appear on all invoices, cartons, packing slips, bills of lading & correspondence.

<b>PURCHASE ORDER</b>	
<b>No.</b>	<b>05FD002</b>

**VENDOR:**

<b>CRASH RESCUE EQUIPMENT SERVICE, INC.</b>
<b>P. O. Box 211506</b>
<b>Dallas, TX 75211</b>

**SHIP TO:**

<b>City of Paso Robles</b>
<b>Dept of Emergency Services</b>
<b>Fire Station #3</b>
<b>4912 Wing Way</b>
<b>Paso Robles, CA 93446</b>

Vendor Number

Order Date	Date Required	Terms

Part Number and/or Description	Tax-able	Qty	Unit Price	Non-Taxable Amount	Taxable Amount
TM-510C-SK Tri-Max 100 gallon cold CAF system with two 400 cu. ft. high pressure nitrogen bottles, two high volume regulators, gauge panel and quick opening valves, tubular steel frame with fork lift slots, 500 lb. dry chemical vessel, electric rewind hose reel with rollers and 100 ft. of 1" light weight twin agent hose plus Hydro-Chem nozzle. Standard color is Air Force Red (can paint to customer specs)	y	1			25,625.00
Bumper Turret with Hydro-Chem Nozzle	y	1			11,000.00
One full load of agent including one pail of 3% AFFF and 10 pails of PKW dry chemical.	y	1			870.00
<i>(Freight not included)</i>					

Account Distribution			Sub-Total	Sub-Total
Account Number	%	Amount	\$	\$
602-310-5454-166		40,588.34	-	37,495.00
		-	8.25% Sales Tax	3,093.34
		-	Freight	
		-	<b>Purchase Order Total</b>	
		-	<b>\$ 40,588.34</b>	

**IMPORTANT:**

1. Acknowledge Receipt of Order
2. Advise Definite Ship Date
3. Confirm Pricing

Buyer reserves the right to cancel any order not completed within specified time. All prices shall be F.O.B. Paso Robles, CA, unless otherwise specified. An itemized packing list must accompany each shipment.

<b>Authorized Signature:</b>
<b>Department:</b>
<b>City Manager:</b>
<i>(City Manager signature required for all Purchase Orders over \$2,500)</i>

Copy (circle one) Vendor Department Finance Receiving/Payment	Approved _____ To be signed after goods/services received & approved for Payment:
	Signature _____ Date _____

**Crash Rescue Equipment Service, Inc.**

P.O. Box 211506

Dallas, TX 75211

PH 972-243-3307 Fax 972-243-6504

# QUOTE

**Ship To:**  
 Roger Oxborrow  
 Airport Manager  
 Paso Robles Municipal Airport  
 4912 Wing Way  
 Paso Robles, CA 93446  
 Ph 805-237-3877  
 Fax 805-238-3879

**Bill To:**  
 Roger Oxborrow  
 Airport Manager  
 Paso Robles Municipal Airport  
 4912 Wing Way  
 Paso Robles, CA 93446  
 Ph 805-237-3877  
 Fax 805-238-3879

DATE	DELIVERY	SALES REP	FOB	SHIP VIA	TERMS	TAX ID
05-28-04	90-120 DAYS	C. Barnes	Dallas, TX	Best Way		

QTY	DESCRIPTION	UNIT PR	TOTAL
1	TM-5100-SK Tri-Max 100 gallon cold CAF system with two 400 cubic feet high pressure nitrogen bottles, two high volume regulators, gauge panel and quick opening valves, tubular steel frame with fork lift slots, 500 lb. dry chemical vessel, electric rewind hose reel with rollers and 100 ft. of 1" light weight twin agent hose plus Hydro-Chem nozzle. Standard color is Air Force Red. (can paint to customer specs).	\$25,625.00	\$25,625.00
1	Bumper Turret with Hydro-Chem Nozzle	\$11,000.00	\$11,000.00
1	One full load of agent including one pail of 3% AFFF and 10-pails of PKW dry chemical	\$870.00	\$870.00

NOTE: Delivery approximately 90-120 days after receipt of order

*Quote is still current  
 8-9-04*

*Carey Barnes*

FREIGHT

(not included)

TAX 8.75%

TOTAL

\$37,495.00



## **Crash Rescue Equipment Service, Inc.**

www.crashrescue.com • Email: sales@crashrescue.com

### **SPECIFICATIONS RENEGADE TM-5100 SKID UNIT**

#### FOAM AGENT TANK:

The agent tank shall hold 100 gallons of pre-mix foam agent and shall be manufactured in accordance with ASME standards. A mechanical liquid level gauge shall be provided to indicate agent level. The tank fill shall include a large removable cap to facilitate easy foam and water filling plus a 1½" NST hose adaptor. The tank shall be coated with an epoxy polyurethane red paint. An approved ASME pressure relief valve shall be furnished to prevent the tank pressure from exceeding 10% of the maximum working pressure.

#### DRY CHEMICAL SYSTEM:

A 500 lb. (450 lb. PKW) dry chemical system shall be installed and piped to the dual agent reel. The dry chemical tank shall be of welded steel construction according to the latest ASME unfired pressure vessel code for a working pressure of 250 PSI. The dry chemical tank shall be fitted with a gas tube arrangement to adequately fluidize the dry chemical, pressurize the tank and maintain a nominally constant pressure during discharge. The dry chemical tank shall be fitted with a 4" I.D. fill opening and provided with a discharge outlet suitable for the specified handline. An approved ASME pressure relief valve shall be furnished to prevent the tank pressure from exceeding 10% of the maximum working pressure.

Valving and piping shall be provided so that after the extinguisher is used the hose lines may be flushed of agent by venting pressure in the top of the tank or redirecting nitrogen flow.

#### AIR SUPPLY:

Two (2) 400 cu. ft. 2,600 psi air cylinders shall be provided. One (1) air cylinder shall be capable of discharging the full agent tank at normal blend-air settings and shall be used for foam-air injection (Compressed Air Foam) and for blow-down to clean the discharge system of agent and one for the dry chemical system. The nitrogen (or dry air) cylinders shall be mounted horizontally designed to permit easy access for operation or replacement. High pressure air hose and connections shall be rated for 6,000 psi. Three high volume air regulators shall be provided, matched to the discharge flow rating. All low pressure air hose shall be ¼" 300 psi @ 210° F. Pressure gauge(s) shall be provided to indicate system operating pressure (s).

**SPECIFICATIONS  
RENEGADE TM-5100  
SKID UNIT**

HOSE REEL:

A twin agent electric rewind hose reel shall be provided with capacity for 100 ft. of twin agent hose. Hose rollers shall be provided for easy removal and rewind of the hose. The rewind button shall be easily accessible to the operator. The reel shall include 100 ft. of 1" light weight, molded twin agent hose and one (1) 1" Hydro-Chem™ CAFS nozzle with twin ball shut-off. Foam discharge shall be smooth bore design for unrestricted CAFS discharge. The dry chemical discharge shall be encapsulated within the CAFS foam to provide extended projection and precise application of the agent.

DISCHARGE SYSTEM:

Discharge piping shall be compatible with the dry chemical and foam agent and provide the required turret/handline flows at minimum friction loss. Ball valves shall be installed for turret foam and dry chemical discharge with remote controls inside the cab. Manual ball valves shall be installed at the twin agent reel for dry chemical and foam activation.

HIGH ENERGY COLD FOAM:

A minimum of one (1) 400 cubic ft. air cylinder shall be dedicated for enhanced foam expansion and quality. The air injections system shall use a high volume regulator to allow for expansion ratios of 15 to 1 or more. The high pressure stored air will be cooled to 32°F or less while passing through the regulator. The resulting foam shall consist of small, uniform bubbles cooled to near 32°F, thus producing a thicker, long-lasting foam.

SKID FRAME:

A tubular steel framework shall support the foam and dry chemical agent tank, two (2) high pressure air vessels and hose reel. The unit shall be capable of loading and un-loading as a complete assembly with minimum connections and mounting fastener. The unit shall have overall dimensions of approximately 96" long x 60" high x 56" wide. Charged weight shall be approximately 4550 lbs.

CENTRAL FILL CONNECTION:

A central fill connection shall be provided for convenience to fill the nitrogen/ compressed air cylinders without removing them from the vehicle.

AGENT:

The twin agent system shall be provided with 10 pails of PKW dry chemical and 1 pail of 3% AFFF which is adequate agent to discharge one load.

P.O. Box 211506 • 3912 W. Illinois Ave. • Dallas, Texas 75211 USA • 972-243-3307 • Fax 972-243-6504

## **TWIN AGENT CAFS/DC BUMPER TURRET SPECIFICATIONS**

The bumper turret shall be constructed of a durable, light weight aluminum alloy. Rotation gears shall be stainless steel, fully enclosed. The waterway shall be flow enhanced with internal vanes. The unit shall be capable of flows up to 300 GPM of high-energy compressed air foam. Vertical travel shall be 150° and horizontal travel shall be 180°. Operation shall be 12-volt electric. Gear motors are to be fully enclosed and sealed. Swivels shall be double ball bearing races with stainless steel bearings. The unit shall be capable of a maximum working pressure of 300 PSI.

A 2-axis joystick control shall be provided. Moving the joystick forward and back shall cause the nozzle to move up and down. Moving the joystick left and right shall cause the nozzle to rotate left and right. A solid state, modular, load distribution relay system shall be used for maximum reliability. Wiring shall be color-coded and function coded with plug-in connectors.

The nozzle shall be HYDRO-CHEM™ twin agent type. Foam discharge shall be smooth bore design for unrestricted CAFS discharge. The dry chemical discharge shall be encapsulated within the CAFS foam to provide extended projection and precise application of the agent.



# Crash Rescue Equipment Service, Inc.

www.crashrescue.com • Email: [cbarnes@crashrescue.com](mailto:cbarnes@crashrescue.com)

Roger Oxborrow  
Airport Manager  
Paso Robles Municipal Airport  
4912 Wing Way  
Paso Robles, CA 93446

May 28, 2004

Dear Roger:

Crash Rescue Equipment Service, Inc. is the sole source of the Tri-Max 5100 twin agent system. Crash Rescue Equipment Service, Inc. has exclusive control of manufacturing and distribution of this product.

If we can be of assistance to you, please do not hesitate to contact us at 972-243-3307.

Sincerely,

Carey Barnes  
Tri-Max Product Manager