CHIEF ADMINISTRATIVE OFFICE Procurement and Contracts Division

Date Re	ceived	
		- 51

NON-COMPETITIVE BID PURCHASE JUSTIFICATION

Required for all sole source acquisitions in excess of \$3,000.00.

This justification document consists of three (3) pages. All information must be provided and all questions must be answered. Department Head approval is required.

Rec	questing Department Information
Department	Index Code
Sheriff 	242114
Contact Name	Sub-Object Code User Code
Jon DeVille	
Telephone	Fax
530-621-5691	530-642-9473
Requ	uired Suppier/Vendor Information
Vendor/Supplier Name	Vendor/Suppler Address
Remotec, Inc.	353 JD Yarnell Pkwy, Clinton, TN 37716
Contact Name	
Justin Rickman	
Estimated Purchase Price	Vendor/Supplier E-Mail
\$61,577.00	remotecservice@ncg.com
Felephone	Fax
365-483-1492	865-483-1436
Provide a brief description of the acquisition, includ	ling all goods and/or services the vendor/supplier will provide
Upgrade of bomb response robot. Upgrade of labor for assembly and testing its operation.	robotic chassis, arm, Power Hawk Assembly, new tracks, remote control, plus
Department Head Signature	3/12/14 Date
Purchasing Agent	
Signature	Date
oard of Supervisors	Buyer Assignment
Date	Assigned To
tem	Date

A. THE GOOD/SERVICE REQUESTED IS RESTRICTED TO ONE SUPPLIER FOR THE REASON STATED BELOW:

	provider of robot unit. Their expertise unit's purpose of handling bombs and e				personne
			•		
				-16	
2. Provide the backg	ound of events leading to this acqu	sition.			
raining seminars, and vere needed to the EC	neriff Emergency Ordinance Disposal Te comparing best practices with other ag D Robot in order to stay current and be er, Undersheriff Williams and Sheriff D'A	encies. Through this res prepared for unforesee	earch, the El Dorado Count n disasters with handling b	y Sheriff's Office determined that combs and mitigating explosives.	t upgrade
3. Describe the uniqu	eness of the acquisition (why was tl	ne goods/services sup	plier chosen?)		
	ally being built anew; the main compone			new equipment and configuratio	ns.
	quences of not purchasing the goo				
ne high risk to personi be compromised, due t	el safety involved with the unit's purpos e complexity with a potential explosive	e of handling bombs and soncealm	d explosives is the primary c ent.	onsequence. Another is that mo	re sites w
· ·					

5. What market research was conducted to substantiate no competition, including evaluation of other items consider? (Provide a narrative of your efforts to identify other similar or appropriate goods/services, including a summary of how the department concluded that such alternatives are either inappropriate or unavailable. The name and addresses of suppliers contacted and the reasons for not considering them must be included OR an explanation of why the survey or effort to identify other goods/services was not performed.)								
Remotec was the initial provider of robot unit. proposed makes any other vendor unfeasible.	. Their expertise with the upgrade requested, compatibility with its operation, and the extent o	of the upgrade						
B. PRICE ANALYSIS								
How was the price offered determined to (Explain what basis was used for compariso	on and include cost analysis as applicable.)							
The written price quote is itemized in detail, wit the upgrade.	ith parts described and labor involved. It is transparent and fair given the specificity and expertis	e necessary for						
Describe any cost savings or avoidance r	realized (1 time or on-going) by acquiring the goods/services from this supplier							
	nand recognize the ongoing avoidance of extra labor time spent at investigation sites and the	undue risk to						
	• .							
,								

EL DORADO COUNTY SHERIFF'S OFFICE SHERIFF JOHN D'AGOSTINI

MEMORANDUM

TO: Lt. Dreher

FROM: Sgt. Auwae

SUBJECT: Andros F6A+ robot upgrade

DATE: March 3, 2014



I am submitting a purchase request for an upgrade to our bomb response robot. As you know, the F6A is one of our main tools on the EOD team and is used on almost every call. The mantra in the EOD community is "start remote, stay remote". The use of the robot allows us to fulfill much of our chartered mission without exposing Sheriff's Office personnel to any more harm than is absolutely necessary.

The upgrade to our robot platform provides many advantages over the robot the way it is currently. Most importantly, in order to complete the upgrade Remotec completely tears down the robot and rebuilds it. When we receive the robot back from the vendor it will have all of the motors serviced and repacked, the arm rewired, and new electronics in the chassis. For all intents and purposes, we would have a brand new robot.

In addition to this major benefit, the upgrade included a new back up camera, position sensors on all of the joints and new LED lighting. The LED lighting is lower draw and reduces the drain on the battery and the back up camera improves visibility. The position sensors on all of the joints on the robot allow the robot to "know" how it is configured. This is shown as an avatar of the robot on the OCU that mimics the current configuration. The avatar allows the operator to track the configuration of the robot without tasking a camera to visually check. The robot can also be programmed with preset configurations such stair climbing, PAN loading, battery change, etc. This reduces the amount of time for operations and deployment. It also reduces the learning curve for the robot operator making the team as a whole more effective.



Date:

El Dorado County Sheriff's Office 300 Fair Lane, Placerville, CA 95667 530-621-5655 Fax: 520-621-8091

Vendor Information

Purchase Request Form

Requestor/Delivery Information

2/20/2014

Vendor #:		N/A			Requesto	r:	r: EOD Unit					
Company Name:		Remotec, Inc				ATTN: Jared Melton						
Address:		353 J.D. Yarnell Parkway Clinton, TN 37716					300 Fair	Ln				
							Placerville Ca 95667					
		RemotecServ	rice@NGC.	com								
Contact Na	ame:	Justin Rickma	an		Phone:		530-621-	5655				
Phone:		(865) 483-149	92									
Index	Sub				Ser	vic	e Cost			A SECTION		
Code	Object	Part #		Description	(For	Se	rvices)	Qty	Unit Cost	Total Cost		
242114	COPS *			rade Pakage				1	61547	\$61,547.00		
				e for breakdown)						\$0.00		
			*shipping	included in quote						\$0.00		
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								Sub Tot		\$61,547.00		
								Quoted	Freight	\$30.00		
		orado County										
Sales Tax	x For City	of S. Lake Tal	hoe and P	lacerville 8 %			S	ales Tax		\$0.00		
								TOTAL		\$61,577.00		
Requeste	d By			William Contraction								
Print Name		,,,	Signati	ıre	Date			Phone				
Sgt. Auwa		N. X	1-7			2/20/2014 530-642-4704 Fiscal Year 2013/2014 VERIFICATION						
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Sheriff						10.00	cal Offic	er				
John D'Agostini					Jon E	Del	/ille					
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Remotec

REMOTEC, INC. SERVICE DEPARTMENT QUOTE

Terms: Net 30 Days

Date:

2/20/201

353 J.D. Yarnell Pkwy Clinton, TN 37716

Phone: (865) 483-1492 Fax: (865) 483-1436

Prices are F.O.B. Clinton, TN

Or Sooner

This pricing is valid for 90 days.

Delivery: 180 Days After Receipt of Order

E-mail: RemotecService@NGC.com Attn: **RICKMAN, JUSTIN**

CMPNY: El Dorado Co Sherilf's Dept

ATTN: Melton, Jared

Email: meltonj@edso.org

ROBOT MODEL: F6/ ADDR: 300 Fair Lane ROBOT S/N: F5522-01N00120:

Placerville QUOTE #: Q-10407 CA, 95667

PHONE: 530-621-5655 RMA# N/A (530) 642 9473 FAX:

PAGE 1 OF 1

ITEM	DESCRIPTION	PART NO.	QTY.	U	INIT PRICE	TOTAL PRICE	
	Upgrade 2455 F6A to F6+ Style including:	E246,1-0,1,00	1	200		\$	-
A	Chassis Upgrade					\$	
1	Vehicle Electronics Assy. (includes Drive Camera Assy.)	E2461-4000	1	\$	29,700.00	\$/	29,700.00
2	Drive motor conector connector	CON-HDP26-18-6SN	2	\$	19.00	\$	38.0
3	Lift bearing plate	C2457-1037	2	T	\$151.00	\$	302.0
4	Membrane pot	B2461-1020	2	T	\$275.00	\$	550.00
5	Wiper Plunger	B2461-1006	2	\$	28.00	\$	56.00
6	Wiper Mount Block	B2461-1007	2	\$	22.00	\$	44.00
7	Labor to Assemble Chassis	LABOR2	40	\$	185.00	\$	4 7,400.00
C	ArmiUpgrade including:					\$	
1	Arm Joint Pot Assy (Shoulder, elbow, pitch)	B2461-2278	3	\$	560.00	\$	1,680.00
2	Grip cords (pitch)	GRIPCORD-056	2	\$	28.00	\$	56.00
3	New Shoulder Lift plate (Shoulder, elbow, pitch)	B2461-2026	3	T	\$240.00	\$	720.00
4	Labor to Re-wire wrist pitch Assy.	LABOR2	5	\$	185.00	\$	925.00
5	Labor to Re-wire Elbow Assy.	LABOR2	5	\$	185.00	\$	925.00
6	TORSO SENSOR GEAR SHAFT	B2461-2267	1	\$	35.00	\$	35.00
7	Torso pot mount	C2461-2265	1	\$	230.00	\$	230.0
8	Torso Sensor Gear	B2461-2261	1	\$	86.00	\$	86.00
9	Sensor	SENSOR-005	1	\$	135.00	\$	135.00
10	Cord Grip	GRIPCORD-055	1	\$	80.00	\$	80.08
11	Sensor Cable	CBL-SENSOR-001	1	\$	13.00	\$	13.00
12	Gear	GEAR-002	1	\$	71.00	\$	71.00
13	Worm gear shaft	D2400-2030	1	\$	1,200.00	\$	1,200.00
14	Shoulder Side Plate	C2461-2025	1	\$	452.00	\$	452.00
15	Labor to Re-wire Shoulder Assy.	LABOR2	7	\$	185.00	\$	1,295.00
16	Labor to further modify arm parts. To F6+	LABOR2	20	\$	185.00	\$	3,700.00
17	Firing circuit assy	D2460-3950	1	\$	560.00	\$	560.00
D	Camera Upgrades			12.670 12		\$	andre construction of the second seco
1	Small Pan/Tilt Arm Mount Kit w/LED light	C3865-5030	0	\$	6,900.00	\$	and the second contraction of the second con

2	Color Arm Camera Assy. w/ LED light	C2461-3650	0	\$	3,900.00	\$	
3	LED light mounting bracket for P&T camera	B3865-0183	2	\$	40.00	\$	80.00
4	LED light mounting bracket for arm camera	B3865-3616	1	\$	202.00	\$	202.00
5	LED Light for P&T and Arm Camera	C3865-3620	3	\$	2,300.00	-	- 6,900.00
6	Rear drive camera Kit	B2460-5140	1	\$	1,155.00	\$	1,155.00
7	Camera Sighting Kit Assy.	C7055-5140	0	\$	850.00	\$	1,100.00
8	Dual Pan Disrupter Mount Assy.	D2450-5350	0	\$	1,072.00	\$	
AS ES	Ropular Accessories	132	o constitution	1 625		\$	*
1	New Tracks (6 tracks = one full set)	B2400-1013-FT	April 10 and annual lines	\$	358.00	\$	NYCCPA (recoldende puede de servicio)
2	Power Hawk Assembly	E2455-7500-1		\$	33,700.00	\$	***************** *
2a	Rear receiver hitch (req with powerhawk)	B2455-7580		\$	530.00	\$	•
3	Tac-1 controller	D2461-8125		\$	11,400.00	\$	
4	Truck mount kit AC/DC (pow sup and cord)	D2461-8150-2	0	\$	4,120.00	\$	
	No.			1		\$	
						\$	-
5	Hybrid Radio Control Assy (with case)	C2456-8440-xxxxxx		\$	41,500.00	\$	•
	For Other acc. prices available on request					\$	•
						\$	
E	Labor to Test	LABOR2	5	\$	185.00	\$	925.00
	Replacement batteries for battery packs	BATTERY-010	4	\$	108.00	\$	432.00
	Packaging in Reusable Shipping Crate	CRATE-002	0	\$	850	\$	-
	Shipping costs are for 'to and from' Remotec	PICKUP-ANDROPOFF	1	\$	1,600.00	\$	1,600.00
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	amplement and			
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		TOTAL COST	\$	61,547.00
ALL QUOTES REQUIRE APPROVAL				
Business Management Approval	Contracts Appropria			
(1) Prices sted are for sales in U.S.A. only. Export prices are availal				
(2) Add travel, labor and subsistence costs if training is located at cut	stomer's facility.			
(3) All products have a one-year warranty. Extended Maintenance Co. (4) Prices are based upon acceptance of REMOTEC's Terms and Co.		m these conditions	may	

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result in a price increase.

(5) The prices contained herein are budgetary, are submitted for planning purposes only and are not to be construed as a firm quotation. Any resultant contract shall be contingent upon negotiation of mutually acceptable terms and conditions.

The F6A+ upgrade features

On screen graphics

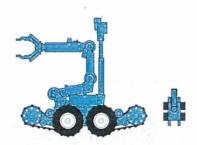
These allow you to know the position of the robot from your control station.

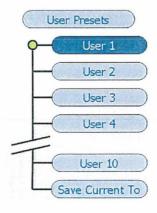
- Left facing side-view of F6A gives accurate and real-time position feedback from on board sensors in the arm and articulators
- Errors and failures are communicated on-screen with the failed area turning either red or yellow depending on status



Customizable preset arm and articulator settings

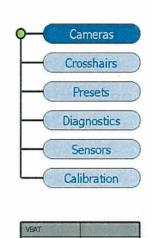
- Menu function allows selection from factory or user-defined presets for the arm and articulators
- Factory presets include most commonly used positions such as:
 Park, Deploy, Stair Mode Up/Down, and Drive Mode among others
- Space for 10 user-defined presets





Improved, easier to understand menus

- · Menu based vs. endless loop/scroll
- . More intuitive & easier to read



Vehicle image = actual orientation

Press Graphics Switch up to display the top-level menu.

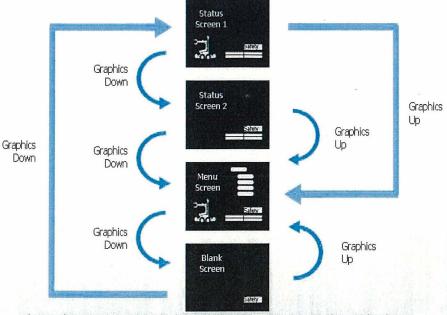
P/T down highlights next lower menu item, and will wrap to the top item.

P/T up highlights next higher menu item, and will wrap to the bottom item.

P/T right drills down into the highlighted menu item.

P/T left backs up to the previous menu. It performs no action if on the top-level menu.

Let's take a look at how that would work.



The Graphics Down switch cycles between the two Status screens, the Top-level Menu Screen, and the Blank Screen. The Graphics Up switch brings up the Menu Screen, and performs no action if already on the Menu Screen.

The power-on default is Status Screen 1, with a splash box containing vehicle ID and SW version; press Graphics Down once to remove the splash box and stay on Status Screen 1.

So, what is involved in getting your robot upgraded?

- Robot and all accessories must be returned to Remotec
- Complete tear-down and service of chassis, and arm (including servicing, repacking grease in gears, rebuilding and testing of all motor/gear packages)
- Rewire of the arm to include the pots/sensors for positioning
- New electronics housing (includes casting, JAUS electronics, and top cover plate)
- Operational test of entire system
- · Upgrade takes approximately 3 weeks for rebuild and testing

There may be additional costs, depending on both the shape of your robot and any accessories you might add.

- · Any repairs or maintenance not directly related to the upgrade
- Labor and parts not required by upgrade (broken gears, burned out motors, etc.)
- · New Tracks and Tires
- · Any new accessories

These would all be added to the cost of the "Basic" upgrade quote Along with any shipping costs that might apply.

Some of the more popular accessories are:

G-man Accessories



The G-Man Tow Kit is an easy-touse set of tools for use with your ANDROS hitches and mounts. Tow Kits come with the following and can be customized:





The Powerhawk



The rear Drive camera



The Truck Mount Kit

- Wall mountable kit replaces the bulky tabletop controller (OCU purchased separately)
- · Compatible with current switchbox or TAC-1 OCU



The Tac-1 Controller

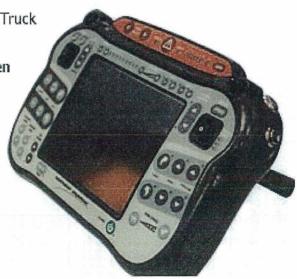
Handheld controller replaces bulky switchbox with a more ergonomic, lightweight solution

 Works in conjunction with the Truck Mount Kit

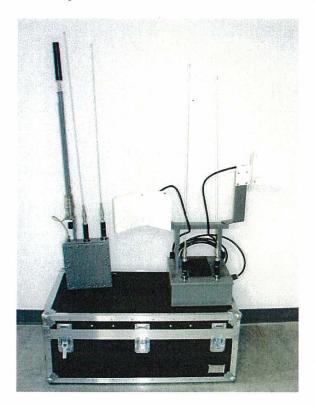
· Built-in daylight readable screen

Built-in microphone & speaker

 LED feedback for weapons, camera, speed and "last pressed" functions



...and of course The Hybrid Radio Control Assembly



For more information...give us a call

Northrop Grumman Corporation Remotec Inc, Service Department 353 J. D. Yarnell Industrial Parkway Clinton, Tennessee 37716 865-483-1492 remotecservice@ngc.com

Normal Business Hours M-F 8:00am – 5:30pm Royce Hollman- Service Manager 865-269-1227 Office Phone 865-548-6130 Cellular Phone royce.hollman@ngc.com

Kim Tipton- Customer Support/Repair Manager 865-269-1226 Office Phone 865-548-6150 Cellular Phone kim.tipton@ngc.com