

THE BOARD OF SUPERVISORS OF THE COUNTY OF STANISLAUS

ACTION AGENDA SUMMARY

DEPT: Sheriff's Department

BOARD AGENDA # \*B-8

Urgent

Routine

AGENDA DATE March 3, 2009

CEO Concurs with Recommendation YES  NO

4/5 Vote Required YES  NO

(Information Attached)

SUBJECT:

Approval to Increase the Sheriff's Operations Budget to Fund the Procurement of an Aero Computer Moving Map System

STAFF RECOMMENDATIONS:

- 1. Authorize the Auditor-Controller to increase appropriations and estimated revenues in the amount of \$93,464.11 in the Sheriff's Department Operations budget for the Air Support Unit for Fiscal Year 2008-2009 as detailed in the attached budget journal form.
2. Authorize the sole source procurement of the Aero Computer Moving Map system using combined grant funds from the High Intensity Drug Trafficking Area (HIDTA) grant and the 'It's All About Methamphetamine Enforcement and Education' grant. Sole Source justification attached.
3. Authorize the Purchasing Agent to issue a purchase order to Hangar One Avionics in the amount of \$93,464.11.

FISCAL IMPACT:

The Sheriff's Department is requesting to increase appropriations and revenue in the Operations Budget by \$93,464.11 for the purchase of an Aero Computer Moving Map and Computer System for the Sheriff's Department helicopter. The funding for the purchase of the equipment is available from two existing grants. The majority of the cost will be funded from the High Intensity Drug Trafficking Area (HIDTA) grant in the amount of \$58,000, of which \$50,000 is from the 2008 grant and \$8,000 is from the 2006 grant. The remaining \$35,464.11 will be out of the Stanislaus County Drug Enforcement Agency (SDEA) (continued on next page)

BOARD ACTION AS FOLLOWS:

No. 2009-142

On motion of Supervisor Grover, Seconded by Supervisor Monteith, and approved by the following vote,

Ayes: Supervisors: O'Brien, Chiesa, Grover, Monteith, and Chairman DeMartini

Noes: Supervisors: None

Excused or Absent: Supervisors: None

Abstaining: Supervisor: None

1) X Approved as recommended

2) Denied

3) Approved as amended

4) Other:

MOTION: THIS ITEM WAS REMOVED FROM THE CONSENT CALENDAR AND PLACED ON NON-CONSENT FOR DISCUSSION AND CONSIDERATION

Christine Ferraro

ATTEST: CHRISTINE FERRARO TALLMAN, Clerk

File No.

## Approval to Increase the Sheriff's Operations Budget to Fund the Procurement of an Aero Computer Moving Map System

### **FISCAL IMPACT (continued):**

"It's All About Methamphetamine Enforcement and Education" grant. This is a two-year grant covering fiscal years 2007-2008 and 2008-2009. There is no additional cost to the County's General Fund.

### **DISCUSSION:**

With the availability of existing grant money, the opportunity exists to purchase an Aero Computer Moving Map and computer system for the Sheriff's Department Air Support Unit's helicopter N206LW. The Aero Computer Moving Map and Computer system is a real time Global Positioning System (GPS) that gives real time accurate positioning information.

The Aero Computer product is designed to meet the needs of law enforcement, public safety and military clients; it is the complete tactical mapping solution. Through seamless integration with the aircraft's onboard camera/IR sensor and other systems, the crew can keep their attention focused on accomplishing the mission, not on the operation of the hardware. Accurate county and city maps are downloaded into the system that give the air crew address and parcel information that allows them to have situational awareness on law enforcement and search and rescue missions. The real time display will allow the Tactical Flight Officer to follow suspects or vehicles on the ground while also being able to focus on up to date street level maps. This allows them to give ground units up to date information on a suspect's location and direction of travel down to the parcel address. The Tactical Flight Officer becomes more efficient and can concentrate on the mission and not a hand held map. Aero Computers Moving Map systems are the industry standard for managing airborne tactical operations.

The computer system also integrates with the Computer Aided Dispatch (CAD) system and would allow the aircrew access to all the updated information that is available to field units through their mobile data computers. This would allow the aircrew to be dispatched to various calls in the far reaches of the county and close the calls out via the CAD computer without the need for a beat unit to be dispatched. It also gives the aircrew a tool to communicate with Dispatch and ground units without broadcasting over the radio and causing an unnecessary officer safety issue.

This equipment will also benefit Homeland Security by giving the Air Support Unit a moving mapping system that will be crucial when assisting allied agencies within the region when a mutual aid or major incident occurs.

### **POLICY ISSUES:**

Board approval is required for an addition or deletion of an appropriation for fixed assets over \$10,000. The Board of Supervisors is asked to determine if this transfer is consistent with county policy and the Board's Priority of striving for the Efficient Delivery of Public Services and A Safe Community.

Approval to Increase the Sheriff's Operations Budget to Fund the Procurement of an Aero  
Computer Moving Map System

**STAFFING IMPACT:**

There are no staffing impacts associated with this item.

County of Stanislaus: Auditor-Controller  
Legal Budget Journal

Database  
Set of Books

FMS11IDB.CO.STANISLAUS.CA.US.PROD  
County of Stanislaus

Balance Type	Budget
Category	* List - Text Budget - Upload
Source	* List - Text SO DRW
Currency	* List - Text USD
Budget Name	List - Text LEGAL BUDGET
Batch Name	Text
Journal Name	Text
Journal Description	Text Air Support Computer
Organization	List - Text Stanislaus Budget Org

Upl	Fund	Org	Acc't	GL Proj	Loc	Misc	Other	Debit		Credit		Period	Line Description
								incr appropriations decr est revenue (format > number > general)	decr appropriations incr est revenue	Upper case MMM-YY List - Text	Text		
4	7	5	7	6	6	5							
	0100	0028211	32800	0000000	000000	000000	000000			35,464.11		Mar-09	Increase Law Enf Services
	0100	0028211	28805	0000000	000000	000000	000000			58,000.00		Mar-09	Increase Federal-Other HIDTA
	0100	0028211	82570	0000000	000000	000000	000000	93,464.11				Mar-09	Increase Computer Equip - Helicopter
<b>Totals:</b>								93,464.11		93,464.11			

**Totals:** 93,464.11 93,464.11

**Explanation:** Adjust appropriations for the Air Support Computer System

Requesting Department	CEO	Data Entry	Auditors Office Only	
Dan Wirtz Signature 2/12/2009 Date	 Signature 2.27.09 Date	Keyed by Date	Prepared By Date	 Approved By 2-27-09 Date

## CRITERIA FOR SOLE SOURCE/SOLE BRAND

### A. FACTORS WHICH MAY BE APPLICABLE

Respond specifically to each question below in preparing a justification.

1. If the product requested is one-of-a-kind item, provide background information on how this was determined.
2. Provide information on why a particular product and/or vendor was chosen.
3. Provide information on other vendors that were contacted and why they can not provide the requested product. Is the selected vendor also the manufacturer?
4. If unique features are required to successfully perform the required function, identify what those features are and why they are required. BE SPECIFIC.
5. Provide information on other models available and why they were rejected. Provide brand name, model, vendor name, date and name of each person contacted.

### B. FACTORS WHICH DO NOT APPLY

The following factors should not be included in your sole source/sole brand justification. They will not be considered and only tend to confuse the evaluation process.

1. Personal preference for a product of vendor.
2. Cost, vendor performance, local service, maintenance, and delivery (these are award factors in competitive bidding).
3. Features which exceed the minimum department requirements, e.g. heavy duty.
4. Explanation for the actual need and basic use for the equipment, unless the information relates to a request for "unique features."
5. The statement "no substitutions" will not be considered without completion of the "Justification for Sole Source/Sole Brand" form.

If you need assistance in completing this justification for sole source/sole brand form, please contact the Purchasing office at 525-6319.

## COUNTY OF STANISLAUS JUSTIFICATION FOR SOLE SOURCE/SOLE BRAND

Requisition Number: \_\_\_\_\_

Dated: February 12, 2009

Item: Aero Computer and Installation

- Sole Source: Item is available from only one vendor. Item is one-of-a-kind item and is not sold through distributors. Manufacturer is a sole distributor.
- Sole Brand: Various Vendors can supply the specified model & brand, and competitive bids will be solicited for the brand requested only.

Refer to the instructions on the back of this form for required criteria before completion.

JUSTIFICATION: (Attach additional sheets, if necessary)

Hangar One Aviation is intimately familiar with the internal workings of all the electrical networking in our helicopters; they installed our FLIR system, search lights and recording systems under the name Jet Source. Jet Source employees have since split off and created Hangar One Aviation. The technicians from Hangar One have done all of the extensive installation of our FLIR/Camera systems, cargo hook installation and electrical work in our helicopters. This work will require the installer to have this knowledge to complete the installation without damaging critical instruments that are necessary for safe flight. Sheriff Christianson has been satisfied with the work product and expertise of the employees of Hangar One and requested this current installation project be conducted by the same individuals who currently operate as Hangar One Aviation.

I am confident that Hangar One technicians, based on their prior experience with our aircraft, have the knowledge to install the Aero Computer and other associated equipment, including the electrical work that is involved in installing the CPU, Keyboard and monitor without causing any damage to critical systems. The only other company capable of installing this equipment is Power Aviation. We have used Power Aviation in the past and have found damage to the airframe from carelessness by those conducting the work.

If another vendor were to be selected I can not say with any confidence their work would be of the same quality as Hangar One and I can say with confidence another vendor would not have the same knowledge of the internal networking of the electrical systems of the helicopters. If any of the current systems were damaged the repair costs would be in the thousands of dollars and could pose a significant risk to the air crew.

CERTIFICATION:

I am aware of the requirements set forth in the County's Purchasing Policy & Procedures Manual for competitive bidding and the established criteria for justification for sole source/sole brand purchasing. As an approved department representative, I have gathered technical information and have made a concerted effort to review comparable/equal equipment. This is documented in this justification. I hereby certify as to the validity of the information and feel confident that this justification for sole source/sole brand meets the County's criteria and is accurate.

This form was completed by:

Lt. Michael Parker

---

DEPARTMENTAL  
APPROVAL:



SHERIFF

---

NAME

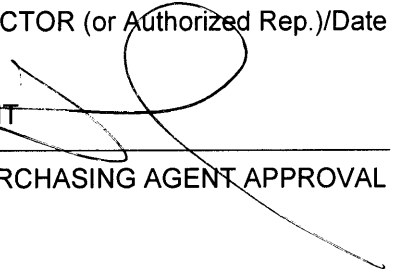
DIRECTOR (or Authorized Rep.)/Date

PROCUREMENT  
APPROVAL:

PURCHASING AGENT APPROVAL

DEPT/DIVISION REPRESENTATIVE/PHONE

---





Date: 1/21/09  
 Quote #: 20090121-1  
 Quote Valid Until: 4/21/2009

Bill To: Stanislaus County Sheriff's Dept  
 250 East Hackett Road  
 Modesto, CA 95354

Attn: Ron Haver  
 Ph: 209-338-4044  
 Fx: 209-521-7968  
 Email: [haverr@stanislaussheriff.com](mailto:haverr@stanislaussheriff.com)

Aircraft Reg: N206LW  
 Aircraft Type: Bell 206L-1  
 Aircraft S/N: 45182

### Statement of Work

Install a new AeroComputer's UC-5100 mapping system. The UC-5100 computer processor will be mounted in the baggage compartment next to the FLIR 8500 camera ECU and will be digitally interfaced to the FLIR8500 camera for view sync. The existing monitor will be replaced with a 12" monitor for split screen function. A keyboard will be mounted in the cockpit, location to be determined.

Qty	Part Number	Description	Total
1	UC-5100 sys	<p>The UltiChart UC-5100 Integration &amp; Mapping System S/N XXXX includes the following:</p> <ul style="list-style-type: none"> <li>• Exclusive remote mounted CPU with</li> <li>- Internal 12 channel, WAAS-enabled GPS receiver, 3 USB 2.0 Ports, 2 Serial Ports,</li> <li>- Optional 4 additional serial Ports, 2 Keyboard Ports, 2 VGA Ports,</li> <li>- NTSC Video In &amp; Out, 2 Ethernet Ports, System software can be updated via USB Port</li> <li>• Internal Pressure Altimeter, • Second Generation MIL-SPEC Connectors</li> <li>• Installation enhancements</li> <li>- Optional Software Configurable Video Input Switching</li> <li>- Optional Integrated Gimbal Hand Controller Interface (HCI)</li> <li>- Video Test Pattern generation</li> <li>• Diagnostics enhancements</li> <li>- Power Fail Brownout Detection,</li> <li>- System Temperature monitoring</li> <li>- Diagnostic external LEDs</li> <li>• UltiChart Application Software License.</li> <li>• Exclusive AeroStreet &amp; AeroRoad maps for the region of California.</li> </ul> <p>These maps are the copyright work of AeroComputers, Inc. and includes 100 block notation on streets for the best situational awareness.</p> <ul style="list-style-type: none"> <li>• Nearest aircraft position, target or ViewSync sensor line of sight LAT/LON</li> <li>1) Street -3 closest 2) Place Names -3 closest 3) Airports -3 closest 4) Obstacles -3 closest</li> <li>• FAA Published WAC, Sectional, Helo and Class B Charts and data for lower 48 States</li> <li>• Fire and Incident Mapping Module</li> <li>• Internal Mission Data Recorder</li> <li>• User Manual, Training Guide</li> <li>• Quick Reference Card, Train the trainer at AeroComputers facility</li> <li>- Optional on-site training is available</li> <li>• 1 year hardware parts &amp; labor warranty • Delivery 60 days after receipt of order</li> </ul>	39,995.00
1	UC-5100-Install-Kit	<p>Installation Kit for UC-5100</p> <ul style="list-style-type: none"> <li>- Includes one each of the following</li> <li>- AK-2 Keyboard, CPU Mounting Tray,</li> <li>- Circular Connector Set,</li> <li>- L1/L2 GPS Antenna,</li> <li>- Shock Mounts (set of 4)</li> <li>- Installation Guide</li> <li>- Delivery 30 days ARO</li> </ul> <p>Note: Failure to use supplied shock mounts will void the warranty.</p>	4,995.00





**Date:** 1/21/09  
**Quote #:** 20090121-1  
**Quote Valid Until:** 4/21/2009

**Bill To:** Stanislaus County Sheriff's Dept  
 250 East Hackett Road  
 Modesto, CA 95354

**Attn:** Ron Haver  
**Ph:** 209-338-4044  
**Fx:** 209-521-7968

**Email:** [haverr@stanislaussheriff.com](mailto:haverr@stanislaussheriff.com)

**Aircraft Reg:** N206LW  
**Aircraft Type:** Bell 206L-1  
**Aircraft S/N:** 45182

**Statement of Work**

Install a new AeroComputer's UC-5100 mapping system. The UC-5100 computer processor will be mounted in the baggage compartment next to the FLIR 8500 camera ECU and will be digitally interfaced to the FLIR8500 camera for view sync. The existing monitor will be replaced with a 12" monitor for split screen function. A keyboard will be mounted in the cockpit, location to be determined.

Qty	Part Number	Description	Total
1	MDT	MDT/CAD Software integration - Install either - 5.0 Volt Type I Internal AirCard - 3.0 Volt Type II Internal Air Card - External Radio Modem - Install modem software drivers - Install Computer Aided Dispatch Software - Supported Cards Include - Verizon V620 & PC5750 and the VZ Access software 5.8.6 (Retail) (6.1.50 Enterprise) - Sprint PCS S750 Card (PCS Datalink software v3.08.029) VPN Clients include Cisco & Netmotion v 7.00.43083 - All hardware and software to be provided by end user at no charge to AeroComputers - External Modem Uses (1) LE-5000 serial port - 3 Volt Type II Air Cards Require Top Hat Expansion	1,995.00



Date: 1/21/09  
 Quote #: 20090121-1  
 Quote Valid Until: 4/21/2009

Bill To: Stanislaus County Sheriff's Dept  
 250 East Hackett Road  
 Modesto, CA 95354

Attn: Ron Haver  
 Ph: 209-338-4044  
 Fx: 209-521-7968

Email: [haverr@stanislaussheriff.com](mailto:haverr@stanislaussheriff.com)

Aircraft Reg: N206LW  
 Aircraft Type: Bell 206L-1  
 Aircraft S/N: 45182

### Statement of Work

Install a new AeroComputer's UC-5100 mapping system. The UC-5100 computer processor will be mounted in the baggage compartment next to the FLIR 8500 camera ECU and will be digitally interfaced to the FLIR8500 camera for view sync. The existing monitor will be replaced with a 12" monitor for split screen function. A keyboard will be mounted in the cockpit, location to be determined.

Qty	Part Number	Description	Total
1	SWM	ANNUAL SOFTWARE MAINTENANCE - For new systems - UltiChart Application Updates and Enhancements - Windows XP Embedded Upgrades - AeroMap Updates - Period: One Year	1,695.00
1	HIF-FSI	HARDWARE INTERFACE ADAPTER - Interface Adapter for FSI-8500 - Electrically interfaces FSI-8500 ECU, ECU Hand Controller - All circular connectors are included	1,595.00
1	ViewSync-L1	Gimbal interface software FSI-8000 ViewSync functionality includes ViewTrak, ViewLoc, ViewTrace and ViewPoint - Bi-Directional gimbal interface Listen and Command - Requires two LE-5000 serial ports - Level 1 - No Aircraft Pitch, Roll or Yaw Correction - Optional IMU/INS is available for aircraft pitch, roll and yaw correction	5,095.00



Date: 1/21/09  
 Quote #: 20090121-1  
 Quote Valid Until: 4/21/2009

Bill To: Stanislaus County Sheriff's Dept  
 250 East Hackett Road  
 Modesto, CA 95354

Attn: Ron Haver  
 Ph: 209-338-4044  
 Fx: 209-521-7968

Email: [haverr@stanislaussheriff.com](mailto:haverr@stanislaussheriff.com)

Aircraft Reg: N206LW  
 Aircraft Type: Bell 206L-1  
 Aircraft S/N: 45182

**Statement of Work**

Install a new AeroComputer's UC-5100 mapping system. The UC-5100 computer processor will be mounted in the baggage compartment next to the FLIR 8500 camera ECU and will be digitally interfaced to the FLIR8500 camera for view sync. The existing monitor will be replaced with a 12" monitor for split screen function. A keyboard will be mounted in the cockpit, location to be determined.

Qty	Part Number	Description	Total
1	AX-12.1	High Quality Display Monitor 12.1 " S/N-### - 800 x 600 resolution - Ultra High Bright - Frame machined from 6061-T6 billet aluminum for strength - Powder coated finish - High strength mounting points around the perimeter - High Bright Sunlight readable display with instant dimming control - 28vdc power input with reverse polarity protection - Over all case depth is 1.5 inches (not including connector length) - Optional NVG filtering - Optional 5 wire touch panel - Optional Custom configurations available - Two composite video inputs - One SVGA input - 1 Year Warranty	8,495.00
1	AC-NVG-L	NVG Filtering Option - For monitors from 12.1 inches to 15 inches - NVG Compatibility	1,495.00



Date: 1/21/09  
 Quote #: 20090121-1  
 Quote Valid Until: 4/21/2009

Bill To: Stanislaus County Sheriff's Dept  
 250 East Hackett Road  
 Modesto, CA 95354

Attn: Ron Haver  
 Ph: 209-338-4044  
 Fx: 209-521-7968

Aircraft Reg: N206LW  
 Aircraft Type: Bell 206L-1  
 Aircraft S/N: 45182

Email: [haverr@stanislaussheriff.com](mailto:haverr@stanislaussheriff.com)

**Statement of Work**

Install a new AeroComputer's UC-5100 mapping system. The UC-5100 computer processor will be mounted in the baggage compartment next to the FLIR 8500 camera ECU and will be digitally interfaced to the FLIR8500 camera for view sync. The existing monitor will be replaced with a 12" monitor for split screen function. A keyboard will be mounted in the cockpit, location to be determined.

Qty	Part Number	Description	Total
1	X3-DVR	Digital In-Flight Video and Audio Recorder S/N### - Storage capacity is determined by readily available FLASH Memory Cards - One (1) GB Compact Flash Card is included - Each GB provides 30 minutes of audio & video recording time - Creates industry standard MPEG-2 video clips - Single keystroke operation via LE-5000 keyboard - Start and Stop Recording - Delete Previous Video Recordings to free compact flash space - Dynamic Compact Flash Recording Time Indicator - Dynamic Compact Flash Time Remaining Indicator - Video File Name Data and Time Stamp Synchronized to UltiChart - In flight playback of video recordings - All solid-state construction - One year Hardware and Software Warranty - Delivery 60 Days ARO	7,500.00

Quotation prepared by: Ken Piland (Avionics Manager)

Miscellaneous Materials	2,200.00
Parts Subtotal	75,060.00
Total Labor	12,600
Freight	250
Sales Tax (7.375%)	5,554.11
<b>INSTALLED TOTAL</b>	<b>\$ 93,464.11</b>

To accept this quotation, sign here and return:  
 X \_\_\_\_\_

Thank you for your business!

2100 Palomar Airport Road Ste 211, Carlsbad CA 92011 Ph: 760- 448-4648 Fx: 760-683-6980