

**SUBMITTAL TO THE BOARD OF SUPERVISORS  
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

840



**FROM: SHERIFF'S DEPARTMENT**

**SUBMITTAL DATE:  
12/20/13**

**SUBJECT: APPROVAL OF LODOX NA LLC AS THE SOLE SOURCE PROVIDER OF A DIGITAL CRITICAL IMAGING SYSTEM FOR THE SHERIFF'S CORONER'S BUREAU WEST, 5/5 DISTRICT. [\$482,990-100% ASSET FORFEITURE FUNDS; \$58,350 IN WARRANTY COSTS - DEPARTMENT BUDGET]**

**RECOMMENDED MOTION:** That the Board of Supervisors:

1. Authorize the Purchasing Agent to purchase a Digital Critical Imaging System and an extended four-year warranty from Lodox, through its California distributor, Radiological Specialists, Inc., for an amount not to exceed \$541,340, without securing competitive bids, in accordance with Ordinance 459.4.

(Continued on Page 2)

*for William A. Di Yorio*  
Stanley L. Sniff Jr.  
Sheriff-Coroner-PA

William Di Yorio, Assistant Sheriff

FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Year:	Total Cost:	Ongoing Cost:	POLICY/CONSENT (per Exec. Office)
COST	\$ 482,990	\$ 0	\$ 541,340	\$ 19,450	Consent <input type="checkbox"/> Policy <input checked="" type="checkbox"/>
NET COUNTY COST	\$ 0	\$ 0	\$ 0	\$ 19,450	
<b>SOURCE OF FUNDS:</b> 100% Asset Forfeiture Funds for the System purchase and the second year's warranty; \$58,350 for extended warranty-Dept. budget				<b>Budget Adjustment:</b> No	
				<b>For Fiscal Year:</b> 13/14	

**C.E.O. RECOMMENDATION:**

**County Executive Office Signature**

*William J. Blair*

**MINUTES OF THE BOARD OF SUPERVISORS**

FISCAL PROCEDURES APPROVED  
PAUL ANGULO, CPA, AUDITOR-CONTROLLER  
BY *Paul Angulo* 12/20/13  
Departmental Concurrence

Purchasing: *Mark Seiler*  
Mark Seiler, Assistant Director

- A-30
- Positions Added
- 4/5 Vote
- Change Order

Prev. Agn. Ref.:

District: 5/5

Agenda Number:

**3 - 34**

**SUBMITTAL TO THE BOARD OF SUPERVISORS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA  
FORM 11: APPROVAL OF LODOX NA LLC AS THE SOLE SOURCE PROVIDER OF A DIGITAL  
CRITICAL IMAGING SYSTEM FOR THE SHERIFF'S CORONER'S BUREAU WEST, 5/5 DISTRICT.  
[\$482,990-100% ASSET FORFEITURE FUNDS; \$58,350 IN WARRANTY COSTS –DEPARTMENT  
BUDGET]**

**DATE:** 12/20/13

**PAGE:** 2 of 3 (BR 14-053)

**BACKGROUND:**

**Summary**

The current method to X-ray bodies at the Coroner's Bureau requires staff to take at least four separate radiographs, sometimes more than ten, for a complete body X-ray. The X-ray session takes approximately 30 minutes to complete for each body, and often requires multiple repositioning of the body as well. With each additional radiograph, staff is subjected to repeated radiation exposure. In the Indio Coroner's Bureau, the exposure times are even longer as we are currently using an older film X-ray unit (Americorp). The Bureau's one Forensic Technician at the Indio Coroner's Bureau is currently close to 10% of his allowable lifetime REM exposure limit (OSHA). Coroner's staff must also move the decedent for each radiograph, exposing them to the risk of physical strains.

To almost totally eliminate the risks identified above, the Sheriff's Department is recommending the purchase of the Lodox Digital Critical Imaging System. It is the only system that provides linear slot scanning, which eliminates 90% of X-ray scatter. It is the only system that can produce a total body scan without multiple positioning of the body by the operator, and the scan is completed in 13 seconds. Further, this is the only such system designed for Forensic use.

The Lodox system allows a complete full body scan with one pass. The images produced by the system are of such a high quality that the Forensic Pathologist can identify projectiles along with their trajectory prior to autopsy. With the speed and accuracy of this system, unidentified remains may also be examined for age estimation, physiological abnormalities, medical and or surgical devices. Remains may be X-rayed prior to handling thereby insuring no knives, needles, weapons, are present, greatly reducing the risk of injury to staff.

The Lodox system has been purchased, and is currently being used with great success, by coroner/medical examiner offices throughout the country. In California, the Ventura County Medical Examiner and San Francisco County Medical Examiner are scheduled to receive their systems in early 2014.

**Additional Fiscal Information**

The Lodox system components and prices are as follows:

Scatscan Radio System	\$389,000
Diagnostic Viewing Station	19,500
Trolley/Gurney Imaging Table	19,500
SUBTOTAL	\$428,000
8% Sales Tax	34,240
SUBTOTAL	\$462,240
Relocation and Reinstallation of a Digital X-Ray System from Perris to Indio	11,750
SUBTOTAL	\$473,990
Second Year Warranty	9,000*
SUBTOTAL	\$482,990
Extended Warranty	\$ 58,350
TOTAL	\$541,340

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\*The second year of warranty coverage is priced at \$9,000 if purchased upfront. The warranty charge for years three through five is \$19,450 annually. If the Sheriff's Department decides to purchase the warranty, the Coroner's budget will include the cost in its budget.

Also note, the Sheriff's Department will have to enlist Facilities Management (FM) to upgrade the power source in the Perris X-ray room to accommodate the new system. FM has provided a quote of \$9,110 for this work. This cost was not included in the system price in the Financial Data section.

**Price Reasonableness**

Lodox has provided Department staff with a brief sales history dating back to 2011 that verifies that the price it is now offering us is approximately the same as offered in that year. The unit price we are now paying was quoted by Lodox to the Department in May 2013. Radiological Specialists, Inc. also provided staff with unit prices quoted to Ventura County Medical Health Care Agency and San Francisco County Medical Examiner's Office in 2013 that were identical or exceeded the quote provided to the Sheriff's Department. Our unit price also includes shipping and the installation labor cost at the Perris Bureau.

**Impact on Citizens and Businesses**

As stated above, the use of the Lodox system reduces the number of radiographs required for a complete body X-ray, resulting in a significant reduction in staff's REM exposure. The new system also reduces the amount of times the staff has to lift a decedent to position it for a scan.

In the event of mass fatalities, the speed and accuracy of this equipment will allow for a quicker resolution in identifying decedents. This includes the identification of existing surgical hardware, dental implants, reuniting dismembered remains, and age determination. Should Riverside County be the target of a terrorist event, the use of this equipment will quickly and safely identify any potential threats hidden inside any remains. The resolution is detailed enough to provide shrapnel data that may indicate blast direction, and in a best case scenario, quickly identify the bomb type, if enough parts are still present.

Date: December 20, 2013  
From: Will Taylor, Director of Finance Department/Agency: Coroner's Bureau  
To: Board of Supervisors  
Via: Purchasing Agent  
Subject: Sole Source Procurement; Request for Lodox Digital Critical Imaging System

The below information is provided in support of the Department's request for approval of a sole source. Outside of a duly declared emergency, the time to develop a statement of work or specifications is not in itself justification for sole source.

**Supply/Service being requested:** Lodox Digital Critical Imaging System

**Supplier being requested:** Lodox Systems North America, LLC.

**Alternative suppliers that can or might be able to provide supply/service:** None.

**Extent of market search conducted:**

An international industry search revealed no product with the capabilities provided by the Lodox Digital Critical Imaging System. Lodox is the only supplier that can provide a system that offers Linear Slot Scanning, thereby eliminating 90% of X-ray scatter. It is the only system that can complete a total body scan without any manipulation by the operator, and completes it in 13 seconds. It is also the only system designed for Forensic use. The following companies were contacted. However, none have any system comparable to the Lodox System.

Internet Search – by Deborah Gray  
Summit Industries, Inc.  
Shimaduz Flurospect 300  
Philips DigitalDiagnost  
Radlink, Inc.  
Star Imaging – DRX Series  
DICOM Distribution  
Walsh Imaging  
Atlantis Worldwide, LLC  
Rayence  
Del Medical, Inc.  
Imaging Equipment Ltd

**Unique features of the supply/service being requested from this supplier, which no alternative supplier can provide:**

As stated above, Lodox is the only supplier that can provide a system that offers Linear Slot Scanning, thereby eliminating 90% of X-ray scatter. It is the only system that can complete a total body scan without any manipulation of the body by the operator, and completes it in 13 seconds. It is also the only system designed for Forensic use.

The Lodox Digital Critical Imaging System is a low dosage radiographic unit that employs a narrow width and a fan-width adjustment collimator, which spreads the X-ray photons out in only one direction. The narrow beam and high quality photons reduce the number of X-rays scattered by the body, so no post patient scatter grid is required. Additionally, the detector is fitted into a scatter absorbing housing. The resulting radiograph is a high quality image, surpassing any other image on the market.

**Reasons why my department requires these unique features and what benefit will accrue to the county:**

The current method to X-ray bodies at the Coroner's Bureau requires staff to take at least four separate radiographs, sometimes more than ten, for a complete body X-ray. The X-ray session takes approximately 30 minutes to complete for each body, and often requires manipulation of the body as well. With each additional radiograph, staff is subjected to repeated radiation exposure. In the Indio Coroner's Bureau, the exposure times are even longer as we are currently using an older film X-ray unit (Americorp). Our one Forensic Technician at that Bureau is currently close to 10% of his allowable lifetime REM exposure limit (OSHA). Once the Lodox system is in place, the digital X-ray machine from Perris will be moved to the Indio Bureau. Since the digital X-ray machine has been in use in Perris, the mrem exposure for each year has dropped to 1 mrem per year, as opposed to film X-ray, which averages 10 mrem per year, a ten-fold decrease in exposure for our Coroner Technicians.

Further, with each additional repositioning of the body, our staff is at risk for physical strains. The Coroner's Bureau has seen an increase in the number of bariatric or morbidly obese decedents with weights anywhere from 300 to 600 pounds. Each time a Coroner Technician has to reposition the decedent they are at risk for injury. All ten Coroner/Medical Examiner Offices listed below reported this as a significant factor when deciding to purchase the Lodox system.

The Lodox system allows the machine to rotate and complete a full body scan with one pass. The images produced by the system are of such a high quality that the Forensic Pathologist can identify projectiles, along with their trajectory, prior to autopsy. With the speed and accuracy of this system, unidentified remains may be examined for age estimation, physiological abnormalities, medical and or surgical devices. Remains may be X-rayed prior to handling thereby ensuring no knives, needles or weapons are present, greatly reducing the risk of injury by the morgue staff. The Lodox system has been purchased, and is currently being used with great success, by coroner/medical examiner offices throughout the country, including:

Maryland Forensics Medical Center-University of Maryland Biopark, Baltimore MD  
Midwest Forensic Resource Center – in conjunction with the US Department of Energy,  
Ramsey, MN  
North Carolina Office of the Medical Examiner-Raleigh NC  
Consolidated Forensics Laboratories –Washington DC  
Bexar County Medical Examiner – San Antonio TX  
Pierce County Medical Examiner – Tacoma WA  
Forensic Medical Management, Nashville TN  
Georgia Bureau of Investigation Headquarters – Atlanta GA,  
El Paso County Coroner's Office – Colorado Springs, CO

Broward County Medical Examiner's Office – Ft. Lauderdale, FL

In the state of California, Ventura County Medical Examiner and San Francisco County Medical Examiner have identified the Lodox system as a critical item in their mass fatality management plans. With the ability to quickly and safely scan an entire body without manipulation, any hidden containers, objects, devices, sharp objects, or wires can be immediately identified. In the event of a mass causality or terrorist attack, the speed and accuracy of identification of decedents will be greatly enhanced. Ventura and San Francisco are expected to receive their systems in early 2014. Of the agencies that currently operate the Lodox system, there have been no reported issues with the device; on the contrary, the above agencies report ease of use, lack of required maintenance, and safety as the top characteristics of the system.

**Price Reasonableness including purchase price and any ongoing maintenance or ancillary costs from the supplier:**

Lodox has provided Department staff with a brief sales history dating back to 2011 that verifies that the price it is now offering us is approximately the same as offered in that year. Further, the unit price we are now paying was quoted by Lodox to the Department in May 2013. The unit price also includes shipping and the installation labor cost at the Perris Bureau. If we purchase, the second year of warranty now, Lodox will only charge \$9,000. In years three through five, the annual warranty charge is \$19,450.

**Purchase price:**

Statscan X-Ray System	\$389,000.00
Includes Shipping and Installation	
Diagnostic Viewing Station	19,500.00
Trolley/Gurney Imaging table	19,500.00
Riverside County Sales Tax 8%	34,240.00
Subtotal	\$462,240.00
Second-Year of Warranty	9,000.00
Radiographic Room Removal and Relocation	<u>11,750.00</u>
<b>Total:</b>	<b>\$482,990.00</b>

In addition, Lodox has agreed to move the digital X-ray system currently in use at the Perris Coroner's Facility to the Indio Coroner's Facility, thus improving the capabilities of both locations. The radiographic room removal and relocation of the existing system will include the following tasks:

- . Disconnecting the equipment in Perris.
- . Packaging up the equipment for transportation.
- . Transporting the equipment to Indio.
- . Decommissioning the equipment presently in Indio.
- . Packaging and transporting the present equipment in Indio to another destination for possible disposal.
- . Installing the equipment from Perris into Indio.
- . Inspecting, cleaning and lubing the equipment.
- . Connecting the CR system into Indio's network.
- . Calibrating the equipment including optimizing the image quality of the CR.

- . Hiring a state Physicists to inspect and certify the equipment's calibration.
- . Notifying the state via an SR 2261 that the equipment has changed.

The job also includes all miscellaneous wire and hardware to install the equipment.

**Does moving forward on this product or service further obligate the county to future similar contractual arrangements or any ongoing costs affiliated with this sole source?**

There are no further contractual obligations to Lodox after this purchase. However, considering the system purchase price, the Department is recommending that the County purchase an annual maintenance warranty.

**Period of Performance:**

This is a one-time purchase with annual options to purchase a maintenance warranty.

*(Provide a defined period of performance. Please note multi-year terms require Board approval, unless renewable in one year increments and the Purchasing Agent approves the terms.)*

<b>Chief Deputy Signature</b>	<b>Date</b>
<i>William A. J. [Signature] for Sheriff Stan Sniff</i>	<i>12/20/13</i>
<b>Department Head Signature</b>	<b>Date</b>

Purchasing Department Comments:

<u>Approve</u>	Approve with Condition/s	Disapprove
<i>[Signature]</i>	<i>12-20-13</i>	<i>14-292</i>
<b>Purchasing Agent</b>		<b>Date</b>