

EDWARD BYRNE MEMORIAL  
JUSTICE ASSISTANCE GRANT (JAG) PROGRAM  
SPRINGFIELD POLICE DEPARTMENT  
FY 2012 LOCAL SOLICITATION  
CFDA # 16.738  
APPLICATION

EQUIPMENT AND TECHNOLOGY UPGRADE

PROGRAM NARRATIVE

Overview

The Springfield Police Department, as the organizational unit on behalf of the City of Springfield, respectfully submits this program narrative in support of our 2012 JAG Local Solicitation application. This application focuses on technology and equipment upgrades in support of increasing efficiency in administrative and field operations.

As funding becomes available throughout the year, we continuously review funding opportunities that will best support overall operations. We weight the potential of the acquisition on the following criteria:

1. **Improve operational efficiency.**
2. **Reduce crime, fear, and disorder.**
3. **Increase officer safety and public trust.**
4. **Improve and enhance technology infrastructure.**

As in years past, upon notification of this year's JAG solicitation, we held a number of meetings to establish and prioritize a list of needs pertaining to administrative and field operations within the Springfield Police Department. Department personnel, civilians and members of the public were present and privy to the discussions regarding current needs based on the criteria above.

In conducting an accurate assessment of the needs of the department, we started by carefully reviewing the allowable **Byrne Formula Purpose Areas** as outlined in the Byrne Formula and LLEBG purpose areas [www.ojp.usdoj.gov/BJA/grant/byrnepurpose.html](http://www.ojp.usdoj.gov/BJA/grant/byrnepurpose.html).

Additionally, we reviewed and considered **Priorities** outlined in the **Purpose Areas** section of this years JAG grant announcement. We looked at current crime fighting programs and initiatives and compared such against that which is an allowed use as delineated in the suggested purpose areas.

The assessment process included a cost/benefit financial analysis with consideration to current programming, equipment needs, and the on-going effort to increase efficiencies in consideration of the tenets of Smart Policing.

The City of Springfield, like most medium sized urban cities across this country struggles to maintain core public safety services. Anemic financial markets has resulted in the reduction of local aid from the state to our municipality again for FY 2012.

As predicted in last year's JAG application, the need to maintain current staffing levels, properly equip and train the officers as well as participate in targeted enforcement far out paces the available revenue. Beyond staffing, the Springfield Police Department budget provides for the purchase of a modest number of marked and unmarked patrol vehicles. All other equipment and technology needs have been met by and are limited to the availability of state and federal grant funding.

After many meetings and extensive discussion, we have identified the need to facilitate information exchange as a top priority for this year's application. Therefore, for FY 2012, this application is limited to equipment and technology upgrades to facilitate Smart Policing by streamlining and upgrading critical systems in support of the identified needs.

**Project Objective** – to update and/or replace equipment and technology which has been identified as obsolete, defective or reached a point where the item has been deemed, “beyond its useful service life” status. Each item outlined in the program narrative is vital to increasing efficiencies and in support of the uninterrupted delivery of basic public safety response and support.

## **INFORMATION TECHNOLOGY**

We have identified equipment within the realm of Information Technology that will support phase three of the upgrade project which began with the introduction of ARRA funding.

### **EMC SANS / Virtualization – \$49,000**

A storage area network (**SAN**) is the architecture which allows the attachment of a remote storage device to servers that store and manage department data. Our current SANS software was purchased in 2002. Increasingly, the need to capture and store video, audio and data files has reached a critical mass, where storage and management needs exceed our software capacity.

Virtualization is the pooling of physical storage from multiple network storage devices into what appears to be a single storage device that is managed from a central console. Storage virtualization is commonly used in a storage area network ([SAN](#)).

The management of storage devices can be tedious and time consuming. Storage virtualization helps the storage administrator perform the tasks of backup, archiving, and recovery more easily, and in less time, by disguising the actual complexity of the SAN.

We have identified the need to replace our current SANS / Virtualization software package. EMC, the manufacturer of our current software technology, has indicated that they will no longer support our 10 year old software. Therefore, we have identified the EMC SANS / Virtualization package as the most compatible software package to meet our current needs and provide improved efficiencies and capacity for years to come. The total cost to replace our current software package is \$187,718.00. We are in a position to fund a portion of this project, (74%) with other monies, therefore, we seek to fund the remaining cost (26% or **\$49,000**) with JAG funding.

### **Panasonic Toughbook Laptop Computers - \$51,057**

The Panasonic Toughbook is the laptop of choice that we currently install in our patrol and investigative vehicles. The reliability and performance has been outstanding. Laptop computers have quickly become the center of operations for each mobile unit. We have a number of laptops that are 8 to 10 years old. The delivery of modern police services require increased processing capacity. The older computers have reached the end of their useful and cannot support field investigation computing needs.

We have identified Panasonic Toughbook models CF-31 (**9 units @ \$4,292**) and CF-19 (**3 units @ \$4,123**) as the modern replacement for 12 obsolete computers.

### **Automated License Plater Reader Hardware & Software-\$8,000**

The Springfield Police Department has (2) license plate readers assigned to the Traffic Bureau and the Detective Bureau respectively. One unit was purchased several years ago with JAG funding. This technology has significantly increased efficiencies with the identification and query of motor vehicle license plates. Countless motor vehicle stops, investigations, citations and arrests have been realized as a result of this technology.

We have found that efficiencies with our current technology could be enhanced with the addition of supporting hardware and software. We have identified the following:

ELSAG Operations Center Software for **MPH-900 ALPR**  
Operations Center Solution integrates all mobile and fixed MPH-900<sup>®</sup> Automatic License Plate Reader (ALPR) systems into one seamless network, providing efficiency, streamlined data collection and officer safety.

This new operations software will be enhanced with the addition of wireless hardware that will transmit data, including system updates, investigative data, including stolen motor vehicle lists, etc. Conversely, this wireless system will also download the mobile ALARS unit by transferring captured mobile data and transferring same back to the

operations center via a wireless connection. This data transfer will increase efficiencies in the field as well as significantly enhance investigative potential with the capture and management of field data. Currently, data retention is limited to 29 days. With the new operations center, data will be stored on a dedicated server into perpetuity. Additionally, the operations center will also provide the ability to import data obtained by surrounding police departments who also deploy ALARS technology.

### **Prisoner Monitoring / Cell Check Access Control System – \$27,261**

The Springfield Police Department has identified our existing Sapphire PRO prisoner/cell access control system as obsolete and beyond its useful service life. The Sapphire Prisoner monitoring system was installed approximately 20 years ago. As such, this analog system is archaic in comparison to its modern digitized replacement. Officers currently walk the cell block and physically depress a button on the wall of the jail cell. This rudimentary system does not record personnel information, nor, does it record the event electronically.

Therefore, we have identified the **Facility Commander** access control package offered by TESLA Systems, Inc. as the technology to meet our current and future needs. This new system will replace the wall buttons with digital card access readers which will capture time, date, location and personnel information each time officers perform cell check functions. This technology will increase the safety of prisoners as well as increase accountability of attending staff.

### **Command Staff Data Management - Smart Board System – \$15,000**

#### **SMART Board 8070i**

As municipal budgets decrease at an alarming rate, the need to manage available resources on a day to day basis is critical to ensure the uninterrupted delivery of modern police services. The Police Commissioner and his command staff meet daily to review staffing levels, the latest crime analysis and crime events for the past 24 hours. Planning is key to meet this goal. Manual manipulation of staffing rosters on magnetized boards, dry erase boards and other non-digitized analog technology, represent outdated practices co-opted from WWII and the Vietnam War era of managing sworn personnel.

We have identified the SMART Board 8070i as the solution to meet our management of information gap. This interactive display board will enable senior command staff to review the latest crime analysis, virtually manage department personnel, organize specialized deployments and with great accuracy and reliability, ensure that the delivery of police services remains uninterrupted.

This project will include the consultation of a qualified IT vendor as it relates to the identification of a customizable software package that will manage the identified needs specific to police services in Springfield.

### **Crash Data Retrieval System 4.0 – \$5,948**

On average, the Springfield Police Department responds to 7,000 calls for motor vehicle accidents each year. Approximately 900 accidents involve some level of personal injury. In 2010 and again in 2011, there were 11 fatal motor vehicle accidents, respectively. Recently, the local district attorney has requested that the Springfield Police Department obtain the equipment and training to perform the function of crash data retrieval.

Similar to that of air transportation and commercial passenger vehicles, passenger vehicles now have “black box” technology. The investigative value of retrieving this data is extremely high and is rapidly approaching a point where it will be a mandatory investigative function.

The Massachusetts State Police perform this function on a case by case basis upon request. Due to the volume of personal injury accidents, the volume of have reached a prohibitive status.

To meet our need, the Springfield Police Department has identified the **CDR Premium System Tool 4.0** as the technology perform local crash data retrieval. This package contains the necessary hardware and software to support crash data retrieval.

### **PROFESSIONAL STANDARDS / ACADEMY DIVISION**

#### **Ballistic Curtains - \$4,200**

The Professional Standards / Police Academy Division of the Springfield Police Department is responsible for maintaining officer training standards and certifications of 450 sworn personnel. One standard that is critical is the firearms proficiency standards and bi-annual qualification certification. In 2010, the Massachusetts Criminal Justice Training Council issued a mandate that sworn law enforcement personnel must qualify with their issued duty weapon bi-annually or every six months at a minimum. The net effect of this mandate is that the physical state of our department firing range has deteriorated substantially with the additional certification requirements. Specifically, the flexible ballistic curtains that hang down range are seriously compromised. Holes, tears and voids create an unsafe environment for department personnel.

There are several industry manufacturers of ballistic curtains that would meet our needs. VULCAN flexible ballistic curtains, Armor of America and LinAtex ballistic curtains produce similar styles of ballistic blast protection. The Springfield Police Department would seek sample materials for testing prior to purchase. Shrapnel protection from back feed/splatter is our primary concern.

### **Tactical Weapons - \$2,500**

The Springfield Police Department's Professional Standards Training Academy Division is responsible for asset management and maintenance of the department's tactical weapons. The Mossberg 590A short barrel 12 gauge patrol shotgun is the weapon of choice for patrol shotgun application needs. We have identified (5) shotguns as unsafe for deployment. We plan to replace the obsolete equipment with new Mossberg 590A 12 gauge weapons.

### **RECORDS DIVISION**

#### **Secure Records Storage System - \$7,280**

The Springfield Police Department's Records Division is responsible for the management and warehousing of all public safety records both digitally and paper. Due to the increasing demand to store, long term, paper records generated with the delivery of police services, we have identified a need to procure a durable modular storage solution.

Staxonsteel Storage Drawers offers an interlocking steel frame that provides for vertical and horizontal stacking of modular file storage drawers. This system will provide the durability and ease of access to stored paper records.