

# ADECA Grant Submission Information

The following information has been prepared to assist you with the budget and suggested narrative for the eligible products offered by Falcon Direct qualifying for the 2010 ADECA grant. This information can be modified to reflect your actual needs relative to quantity and other considerations applicable to your local community. Our objective is to provide the basic price and narrative information to be sure that the five primary considerations are addressed (What do you want, what does it do, community benefits, cost, and taxpayer ROI). We will start with vehicle cameras. This information is available in WORD format on request.

## Vehicle Camera System

Price - \$4,500 per car plus \$1,500 for video viewing and archiving workstation



*Suggested Narrative* - The (Name of your city) Police Department proposes to purchase (Qty) vehicle cameras and a video viewing/archiving workstation for the purpose of audio/video recording and playback of routine stops as well as in-car audio/video recording of rear seat occupants. The information collected by the proposed dual camera/microphone system can be used be available for later use as court evidence.

The cost of this system is projected at \$4,500 per vehicle plus \$1,500 for an audio/video viewing and archiving workstation.

The use of the proposed vehicle camera system will reduce litigation expense since many cases can be settled without court rulings based on hearsay or appeals with little or no evidence supporting the police department.

As an administrative tool, the camera system can monitor proper pursuit and/or response procedures with GPS tracking records to indicate date, time, location, and speed. External sensors can detect if emergency lights and/or siren are activated in pursuit situations.

Our community will benefit in terms of more accurate incident information, enhanced officer efficiency, and reduced litigation cost.

## Vehicle Tracking System

Price - \$2,000 per unit



*Suggested Narrative* - The (Name of your city) Police Department proposes to purchase (Qty) vehicle tracking systems for the two fold purpose of aiding our investigation officers an additional tool to provide surveillance of suspect vehicle activity.

The use of portable, battery powered GPS tracking devices will allow our department to covertly track vehicles without the need for entry or electrical connection.

The proposed device can be easily attached either under the seat or under the bumper of suspect vehicles which can then be tracked using a standard Internet connected PC.

The vehicle tracking device can be used both for tracking criminal suspect vehicles as well as municipal department vehicles to enhanced administrative information. We can detect and correct problems with improper driving habits, unauthorized use, travel outside our jurisdiction, and performance of assigned duties.

At a cost of only \$2,000 per device, we anticipate the expense will be quickly recovered in terms of improved crime fighting procedures coupled with administrative controls that will result in increased employee efficiency, reduction of wasted time, and minimizing vehicle expense.

### **Computer Aided Dispatch System**

Price - \$2,000 per vehicle



*Suggested Narrative* - The (Name of your city) Police Department proposes to purchase (Qty) of Mobile Information Terminals (MIT's) for the purpose of reducing response time, improving officer safety, and enhancing administrative control.

The dispatch software included with the MIT terminals will provide a visual display of the status and location of our patrol vehicles to facilitate the selection of the closest available vehicle.

This will significantly reduce response time.

Using a standard Internet connected PC, our dispatcher can transmit call information in secure text format which has the twofold benefit of providing privacy from eavesdroppers plus eliminating the potential of errors associated with voice communications. Additionally, the dispatcher can provide driving instructions to the field officer which is calculated automatically including estimated arrival time.

Officer safety is enhanced since dispatch will know the location of the officers vehicle at all times which allows quick deployment of backup and additional assistance in emergency situations. Officer response messages can also be sent in secure text format which is faster and more efficient than voice communications.

In essence, the MIT units installed in our vehicles, working in conjunction with the associated dispatch software gives the functionality of a Computer Aided Dispatch system (CAD) at a fraction of the cost.

Amortizing the cost over a three year period equates to a pro-rated cost of less than two dollars per day, an investment that will provide an almost instant payback in terms of faster response, greater security, improved efficiency, and enhanced officer safety along with the tools to exercise better administrative control.

### **Vehicular Repeater System**

Price - \$1,400 per vehicle



*Suggested Narrative* - The (Name of your city) Police Department proposes to purchase (Qty) vehicular repeaters to extend the range of our portable 2-way radios. Our communications infrastructure was designed many years ago to provide mobile radio communications. As the need shifted to personal 2-way radios, we found

that while the mobiles worked well in our operating area, the portables did not have the power to talk back to dispatch.

A \$1,400 vehicular repeater can give our portable radios the talk-back power of a mobile. Significant benefits will be realized both from an operational and a safety viewpoint. This relatively small investment will allow our officers to be ready to respond to dispatch calls even when they are outside the vehicle. More importantly, our officers will be able to maintain communications while outside the vehicle.

### **Interoperable Communications System**

Price - \$4,000\*

Only for use in areas where local law enforcement frequencies are different from those used by fire departments or other law enforcement agencies.



*Suggested Narrative* - The (Name of your city) Police Department proposes to purchase an interoperable bridge to provide communications between our VHF municipal police radio system and the UHF radio system

used by the fire departments in our area\*. By providing a fixed bridge to allow VHF to UHF radio communications, we will be able to coordinate mutual aid with fire departments in times of emergency.

The cost of the requested Interoperable Bridge is expected to cost no more than \$4,000. No additional equipment will be required in the field as our current mobile and portable radios can be used with the proposed Interoperable Bridge without additional cost or modification.

The use of an Interoperable Bridge provides an extremely low cost alternative to the need of replacing existing radios to maintain compatibility with other radio systems.

\*A system is also available to bridge VHF or UHF to 800 MHz trunked radio systems such as those used in Birmingham, Decatur, Dothan, Gadsden, Huntsville, Mobile and Montgomery. The Interoperable Bridge is \$4,000 PLUS the cost of the associated radios which can add up to an additional \$7,000.

### **RoIP Communications System**

Price - \$2,000 for office station plus \$169 per device.



*Suggested Narrative* - The (Name of your city) Police Department desires to acquire a fixed office station and (Qty) of software application programs to be added to Personal Data Assistants (PDA's) used by our administrative and investigative personnel.

The limitations of our existing 2-way radio system inhibit utilization by administrative and investigative personnel who do not use our 2-way radio system as an operational tool, but more for selective utilization as required. Of equal importance, administrative and investigative personnel are often called upon to work outside of our municipal area. The existing 2-way radio system does not provide the operating range to meet these needs.

We have determined that the utilization of RoIP technology provides a solution by adding an Internet connected computer to our 2-way radio office unit and application software to our PDA's. This will enable administrative and investigative personnel to maintain contact through our 2-way system for their Blackberry, iPhone or Windows Mobile PDA's from most locations anywhere in the USA.

This capability will significantly advance our administrative and operational capability while simultaneously enhancing the safety of these individuals in critical situations.

The moderate cost of this technology is considerably less than the cost for our traditional 2-way radios which will result in significant cost savings to our department.

### **Wireless Airtime Free Surveillance System**

Price - \$2,500



*Suggested Narrative* - The (Name of your city) Police Department proposes to purchase (Qty) of a newly developed wireless portable stakeout system. Unattended stakeout systems have long been used as an alternative to assigning an officer on premise stakeouts. The problem, until now, has been the time required to set up the unit and the cost of cellular airtime reporting.

The new technology is battery powered which allows use of the equipment even where no electrical power is available. The new system, when activated, transmits a coded voice message directly over our existing 2-way radio system. There are no delays associated with third party monitoring services or monthly airtime charges. Activation calls with messages such as *Location 12 reporting* are instantly broadcast to all law enforcement 2-way radios.

The nominal \$2,500 cost of this system will enable our department to provide a higher level of service to our community while reducing personnel cost. Better yet, we will be able to respond quicker which will be a strong deterrent to those who might choose our community as an easy target for burglary and vandalism.

### **Personal Protection System**

Price - \$500 each



*Suggested Narrative* - The (Name of your city) Police Department proposes to purchase (Qty) of Personal Protection Systems (PPS's) to be used in our municipal offices as well as distributed at no charge to merchants who are at high risk for armed robbery. Those who work alone and/or handle cash are easy targets for the criminal community.

A PPS device is essentially a pushbutton activated wireless emergency assistance calling system that can be conveniently located for use by the office or retail clerk. In an emergency, they just push a button that instantly transmits a coded message over our 2-way radio system indicating the location needing assistance. No dispatching is required – all personnel hear the call with the closest officer(s) able to provide immediate response.

The minimal cost of \$500 per device will be quickly offset by more efficient use of available manpower. More importantly, the use of this technology will make our community safer with a clear message to the criminal community of: *Don't come here to do your business. We'll catch you, and we'll put you away!*

## **DHS Compliant Communications System**

Price - \$10,000 for repeater, licensing and installation, \$2,500 for a dispatch station, and \$1,500 each for mobile or portable radios



*Suggested Narrative* - The (Name of your city) Police Department proposes to purchase a new DHS, FEMA and SafeCom compliant P25 repeater station, and office control station, (Qty) of mobile radios, and (Qty) of portable radios to provide interoperable communications using the federal standard P25 technology.

Our existing 2-way radio system operates in an analog wide band (25 kHz) mode. Under current Federal Communications Commission (FCC) mandate, we are required to reduce our operating bandwidth from 25 kHz wide band to 12.5 kHz narrow band no later than January 1, 2013. We understand that this reduced bandwidth will result in diminished operating range unless we convert to digital technology. We further understand that of the three currently available digital operating systems (MotoTRBO, NXDN, and P25), that only P25 is approved for federal funding as defined by FEMA as well as the operating standards applicable to the purchase of 2-way radio systems operated by federal agencies.

Rather than waiting till the last minute, we have decided to purchase as much P25 equipment as possible at this time to allow a smooth and orderly transition to meet the FCC narrow band requirements.

Aside from the compliance issues, both DHS and FCC, the utilization of P25 technology will provide superior audio clarity, no loss of operating range, extended battery life on portable radios, data capability, and privacy from scanners. The implementation of a phased transition can be easily accomplished since P25 equipment is compatible with our older analog wide band equipment as well as operational in the narrow band digital mode.

Several Alabama State Contract approved manufacturers are offering special incentives to encourage early conversion to P25 narrow band compliant equipment now, rather than waiting till the deadline. The savings obtainable by taking advantage of these special offers will result in strong financial benefits to our community. The budgetary pricing of \$10,000 for a repeater station, \$2,500 for a dispatch station, and \$1,500 each for mobile or portable radios is much less than prices previously paid by digital radio equipment users.