

PSAP Grant Program Grant Ranker

View Application--124--Radford Radio

Grant Period: 2010

Tier: Replacement of technically outdated wireless E-911 equipment or service to enable primary PSAP to maintain current service levels to the general public (**TECHNICALLY OUTDATED**)

Grant Program: Enhancement **Grant Type:** Individual PSAP

Priority: Radio consoles (**CONSOLES**)

Primary PSAP Applicants: Radford Police Communications

Jurisdictions Served: Radford, City of

Project Director:

Angie Frye
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Project Description:

Total Project Cost \$144,051.00

Amount Requested: \$144,051.00

Statement of Need:

Replacement of technically outdated radio consoles would enable PSAP to greatly improve current level of service. Use of new technology would increase emergency services beyond less than minimal functioning levels. Currently funds are unavailable to replace or finance this necessary acquisition due to current economic trends which have impacted Radford presently and for the foreseeable future. The existing radio system is over thirteen (13) years of age, with the onset of unannounced breakdowns and poor quality transmissions leading to the loss of response times in emergency situations. Without funding the PSAP and emergency responders are placed in the situation of losing lives. The acquisition of this radio system positions the PSAP for technological growth complying with the states goals in strategic plans for E911 and interoperability standards. This system is extremely flexible and allows interoperability with all existing and future technologies up to and including P25 capability with multiple expansion capabilities.

Comprehensive Project Description:

Goals I. Highest Level of Radio Dispatch Performance for Public Safety and other City Agencies Objectives A. Audio Quality Improvement B. Capability of Direct Control of new Digital Equipment (P25 requirement) C. Maximize System Reliability D. Unit Identification with Alias to Dispatcher E. Emergency Signal Decoding with ID and Dispatcher Alerting II. Interoperability with Internal and Outside Agencies Objectives A. Creating Path to Required P25 Digital B. Allowing Linking of Radio Channels for Interagency Cooperation C. VoIP Linking to Other Jurisdictions and State and Federal Agencies D. Creating Path for Narrowband and Ultra-narrow band Operation III. Flexibility to Respond to New Situations Objectives A. Accommodate

Growth B. New Technologies (SIP, iDEN, P25, etc.) C. Back-up Capability, Off-site and Mobile D. Upgradeable through Firmware Update Implementation Plan with Timetable Estimates 1. Define equipment requirements and capabilities 2. Acquisition Procedure 3. Place order with selected vendor 4. Define with vendor assistance the dispatcher interface (console monitor screen layout and menus) 5. Design work area layout with new equipment 6. Work with vendor to implement parallel system installation 7. Begin operator training on new equipment 8. Cutover to new console equipment with test period to verify operation 9. Removal of old radio control console equipment Item 1 Completed Item 2 Variable Time Frame Item 3, 4, and 5 Four-Five Weeks anticipated Item 6 Seven weekdays Item 7 Two-Three Days Item 8 Ten Calendar Days Item 9 One Day The project is a one time acquisition with installation and training for a new radio dispatch console system. The system is network-based utilizing the latest in reliable, proven technologies with firmware upgradeable components. Being an on-demand service with preventative maintenance a necessary component of the project, the durability and reliability of the system will enable indefinite future use. Individual hardware components such as touch-screen monitors and computers will be subject to replacement according to the city's replacement schedule. The funding of this project will merge with purchase and implementation of a federally funded microwave radio system upgrade for a new state of the art Emergency Communications Center in 2010.

How will the equipment purchased will support future technologies for PSAP readiness?:

The funding of this project will merge this project with purchase and implementation of a federally funded microwave radio system upgrade with full P25 and interoperability capabilities for emergency communications which will be housed in a new state of the art Emergency Communications Center in 2010.

Budget and Budget Narrative:

Telex VoIP Console System with Touchscreen, 4 Positions: 50 Line Capacity Deck Microphone Footswitch Digital Signaling Decoding with ANI Aliasing and Emergency Network Equipment: Line Interface (14 Line Capacity) Input/Output Device (10 each I/O's) Racks and shelving Lightning Protection Devices UPS System with Surge Protection Network Switch Required Cabling and Hardware Equipment Cost: 77,747.00 Installation and First Year On-site Maintenance: 28,032.00 2nd and 3rd Year On-site Maintenance: 18,060.00 4th and 5th Year On-site Maintenance: 20,212.00 Total: \$144,051.00 Equipment costs incorporate all functioning hardware and software necessary for installation and operation of 5 individual radio console positions. First year maintenance is built in with installations with budget allowing for maintenance through five (5) years as allowed.

Evaluation:

Evaluation will be completed upon acquisition, installation, training and successful implementation of the radio system with each task documented as completed, with the truest evaluation lying in the ability to provide uninterrupted, high quality transmissions to all emergency responders consistently.

Attachments