FY12

PSAP GRANT PROGRAM APPLICATION

VIRGINIA INFORMATION TECHNOLOGIES AGENCY

Integrated Services Division

FY12

FY12 PSAP GRANT PROGRAM APPLICATION

HOW TO APPLY/DEADLINE

The grant application will be available and accessible from VITA's Integrated Services Program's website (http://www.vita.virginia.gov/isp/). Upon completion of the application, it is to be submitted to the PSAP Grant Manager, Lisa Nicholson, at lisa.nicholson@vita.virginia.gov. Any supporting documentation must also be submitted along with the application.

After submission, the PSAP Grant Manager will assign a Grant ID and send an e-mail notification to the project contact e-mail address listed on the application received.

All funding requests must be submitted using the grant application. In addition to the grant application reference manual, technical assistance is available from VITA's Public Safety Communications (PSC) staff throughout the grant process. The FY12 PSAP Grant Application Cycle deadline is December 22, 2010 at 11:59 pm.

FY12 PSAP GRANT APPLICATION

PROJECT TITLE

Fairfax County DPSC 9-1-1 Communications Enhancement

GRANT APPLICANT PROFILE/PROJECT CONTACT

PSAP/HOST PSAP NAME: Fairfax County Department of Public Safety Communications
CONTACT TITLE: Director
CONTACT FIRST NAME: Steve
CONTACT LAST NAME: Souder
ADDRESS 1: 4890 Alliance Dr
ADDRESS 2: Suite 2401
CITY: Fairfax
ZIP CODE: 22030-6661
CONTACT EMAIL: Steve.Souder@Fairfaxcounty.gov
CONTACT PHONE NUMBER: 571-350-1701
CONTACT MOBILE NUMBER: 571-641-7028
CONTACT FAX NUMBER: 703-631-2789
REGIONAL COORDINATOR: Chris Hardesty

HOST PSAP AND PARTICIPATING PSAPS/LOCALITIES

GRANT TYPE

☒ Individual PSAP ☐ Regional Initiative

☐ Consolidation ☐ Secondary Consolidation

GRANT PROGRAM TYPE

☐ Wireless E-911 PSAP Education Program
☐ Continuity and Consolidation ☒ Enhancement

TIER

☐ Out of Service ☐ Non-Vendor Supported
☐ Technically Outdated ☒ Strengthen
☐ Not Applicable

PROJECT FOCUS OTHER

If "Other" selected, please specify: NG 9-1-1

FINANCIAL DATA

Amount Requested: $ 65,000
Total Project Cost: $ 65,000

STATEMENT OF NEED

The Fairfax County Department of Public Safety Communication (DPSC), i.e. *the 9-1-1 Center,* is the PSAP for Fairfax County, the City of Fairfax the Town of Herndon and Town of Vienna. In October 2009 DPSC relocated to a new facility called the McConnell Public Safety & Transportation Operations Center (MPSTOC) co-locating with the Virginia State Police (VSP) dispatch center for District 7, the Virginia Department of Transportation (VDOT) Traffic Management Center for the Northern Region of Virginia. This co-location was the first of its kind in the nation and has served all agencies and the citizens of Northern Virginia well. The three agencies operate on a 12,000 sq foot operation floor from which DPSC occupies ¾ of the area and VSP and VDOT the other ¼. DPSC is equipped with 36 Call-Taker positions, 14 Police Dispatch positions, 12 Fire & Rescue EMS dispatch positions, 6 support positions and 4 Supervisor positions.

Additionally VSP has 10 positions and VDOT 12 positions for a grand total of 94 work stations on the operations floor. Each day DPSC receives approximately 5,000 9-1-1 calls and dispatches approximately 3,500 calls for service approximately 70% for Law Enforcement and 30% for Fire-Rescue-EMS. DPSC is the largest PSAP in the Commonwealth of Virginia and one of the ten largest in the United States. A central feature of the operations floor is a large "video wall" allowing everyone in the room to see live the traffic flow throughout the region and quickly react to traffic related incidents and their impacts.

With the relocation to the MPSTOC DPSC incorporated a new 9-1-1 telephone system. A key feature of this system, as it is with any 9-1-1 system, is what has been traditionally known as the 9-1-1 call status board allowing Call-Takers, Dispatchers and Supervisors to readily see the status of the 9-1-1 system, calls in queue, time in queue, and operators signed on and available, etc. Traditionally this information was presented scrolling from left to right on a single line banner format with basic information. The new 9-1-1 telephone system (Plant/CML, VESTA) installed to support DPSC incorporated new technology for presenting this information via five (5), 42 inch flat screen monitors mounted on the walls within the 12,000 s/f operations floor. The five monitors are commonly referred to as SYMON (vendors name) boards in reference to the application providing the technology integrated with the 9-1-1 telephone system. Because of the technology utilized the monitors can also project information like, but not limited to, the number of 9-1-1 calls received in a defined time frame, the number Police and Fire-Rescue-EMS events operating at any given time, announcements, alerts (such as news and/or weather) and warnings. The system also provides system status messages related to the primary and back up telephone 9-1-1 systems, the CAD system and the Radio system. The information provided through SYMON greatly enhances situational awareness.

However, the problem encountered, because of the size of the screens (42 inches) and the size of the room (12,000 s/f) the monitors are difficult if not impossible to see from many areas of the operations floor rendering them of no benefit where they are most needed.

Consequently this Grant request is made to replace the five 42 inch monitors mentioned above with five 57 inch monitors an 85 % increase in the viewing area allowing the information displayed to be viewable from anywhere on the operations floor. The Grant also includes a request for the necessary equipment to mount the monitors and connect the monitors to the SYMON system.

Describe how the grant will be maintained and supported in the future, if applicable.

Click here to enter text

COMPREHENSIVE PROJECT DESCRIPTION

This project initiative is to strengthen and improve our existing 9-1-1/ SYMON information display to allow us to better manage and communicate on the 12,000 s/f operations floor by embracing the rapid growth of technological innovations as part of next generation of 9-1-1 (NG9-1-1). The improved technology will allow us to better monitor, manage and make more efficient operations occurring the Call-Taking, Dispatching and Supervisory areas of the operations floor.

The installation of the display devices will be done by two parties: on site Department of Information Technology staff as well as Facilities Management from the County. The work will include mounting the display devices, cabling from the gallery area to the display devices, electrical modifications and SYMON configurations. The time line for installation would be 30 days from the time of delivery of the display devices, expected to be in the June/July time period. Preparation work will be done prior to the receipt of the display devices; this includes the addition of Extron video extension units and cabling. We already have in place an interface to our Computer Aided Dispatch (CAD) system. Once installed the devices would become part of the AV system for the MPSTOC facility and would be supported by the Department of Information Technologies AV manager in support of the DPSC.

FOR CONTINUITY AND CONSOLIDATION OR ENHANCEMENT PROJECTS:

Provide a thorough, concise, and complete description of the project, including an outline of the goals and objectives, implementation strategy, and a work plan.

Click here to enter text

FOR CONTINUITY AND CONSOLIDATION OR ENHANCEMENT PROJECTS:

PROJECT TIMELINE – Select each applicable phase of the project and indicate the estimated completion date. Sample activities for each phase can be found in the PSAP Grant Program Guidelines as well as on the addendum to this form.

PROJECT PHASE	ESTIMATED COMPLETION DATE
☐ **INITIATION** (Project approved by appropriate stakeholders)	**XX / XX / XX**
☐ **DESIGN/PLANNING** (Project, system, or solution requirements are developed)	**XX / XX / XX**
☐ **ACQUISITION** (Selected system or solution is procured)	**XX / XX / XX**
☐ **IMPLEMENTATION** (Selected system or solution is configured and installed)	**XX / XX / XX**
☐ **TESTING/COMPLETION** (Selected system or solution is tested and put in production)	**XX / XX / XX**

Identify the longevity or sustainability of the project. Click here to enter text
Describe how this project supports the Virginia Statewide E-911 Strategic Comprehensive Plan. Click here to enter text

REGIONAL INITIATIVE (if applicable)

The relationship of the initiative to the participating PSAPs: Click here to enter text

Intended collaborative efforts: Click here to enter text
Resource sharing: Click here to enter text
How does the initiative impacts the operational or strategic plans of the participating agencies: Click here to enter text

CONSOLIDATION (Primary or Secondary) - (if applicable)

How would a consolidation take place and provide improved service: Click here to enter text

How should it be organized and staffed: Click here to enter text
What services should it perform: Click here to enter text
How should policies be made and changed: Click here to enter text
How should it be funded: Click here to enter text

What communication changes or improvements should be made in order to better support operations:

Click here to enter text

BUDGET AND BUDGET NARRATIVE

List the planned expenditures to be made with grant funds. (NOTE: In lieu of a line item breakdown, an itemized cost schedule or detailed vendor prepared quote may be submitted as an attachment.) Briefly explain the reason for each requested budget item and provide the basis for its cost:
In order to complete the project the following items will be required:

MONITOR COSTS:
5 NEC LCD5710-BK-IT monitors at a cost of $10,000 each ($50,000 total) will allow for a larger display of data.
5 Brackets each costing $350 (a total of $1,750)for wall mounts for each of the display devices
NECESSARY SYMON EQUIPMENT
(2) TPT HD15 A transmitters costing $700 each (total of $1,400) will allow for conversion of VGA from SYMON and allows us to transmit over long distance on CAT5 and CAT6
(2) MTP DA 4 box costing $900 each (total of $1,800) allows for a single source from a TPT transmitter to be sent to multiple locations
(2)TPR HD BNC transmitter costing $1,000 each (total $2,000) allows for conversion of VGA from SYMON and allows us to transmit over long distance on CAT5 and CAT6
(1)Cable and Misc. the cost for the cabling, mounting and installation of this equipment will be $400.

LABOR
Installation of (5) 57” monitors will cost $5,000.
Programming of system touch panel that supports the SYMON and the AV system will cost $2,000.
CAT 6 cable installation for feed from local rack to the Supervisors office will cost $600.
CAT 6 cable installation for CAT 6 and RF feed to DPSC Admin area will cost $600.

EVALUATION

How will the project be evaluated and measured for achievement and success:
The Grant funded equipment purchased will allow the integration of other current and future information sources including, but not limited to, regional information sharing and assistance (Initial Aid and Mutual Aid) provided by Fairfax County and to Fairfax County.

This project will allow Fairfax County to further manage its 9-1-1 system and staff and improve situational awareness to more efficiently meet the demands of the citizens who live, work and travel within Fairfax County and the region.

We will achieve this by improving our ability to communicate critical 9-1-1 system status information and other relevant information to personnel working on the operations floor.

The success of this program will be measured by the improved ability to communicate not only with our own agency but with our regional partners. The better flow of information will allow for a more efficient level of service to the community.

FINANCIAL AND PROGRAMMATIC REPORT

PROJECT PHASES

SAMPLE ACTIVITIES

PHASE	SAMPLE ACTIVITIES
INITIATION (Project approved by appropriate stakeholders)	• Project concept is documented • Local Board or governing authority approval or endorsement is received • PSAP grant application is filed • Local budgets are obtained • Appropriated grant funds are approved • Budgetary estimates are obtained
DESIGN/PLANNING (Project, system, or solution requirements are developed)	• Requirements are documented • Components to be purchased are identified • General design is documented
ACQUISITION (Selected system or solution is procured)	• RFP (or other bid related processes) are drafted • Proposals are evaluated • Contract is signed • Purchase orders are issued • Quotes are obtained/grant funds draw down
IMPLEMENTATION (Selected system or solution is configured and installed)	• Purchased components are delivered and installed • Training is performed
TESTING/COMPLETION (Selected system or solution is tested and put in production)	• Performance of system/solution is validated • System/solution goes “live”

FAIRFAX COUNTY DEPARTMENT OF PUBLIC SAFETY COMMUNICATIONS

Fairfax County DPSC 9-1-1 Communications Enhancement Grant Request

Budget Narrative

In order to complete the project the following items will be required:

MONITOR COSTS:				
Qty	**MODEL**	**FUNCTION**	**COST Ea.**	**EXTENDED COST**
5	NEC LCD5710-BK-IT	Larger display of data	$10,000	$50,000
5	Brackets for wall mount	Support the display device to the rail and wall	$350	$1,750

NECESSARY SYMON EQUIPMENT				
Qty	**MODEL**	**FUNCTION**	**COST Ea.**	**EXTENDED COST**
2	TPT HD15 A	Transmitter: allows for conversion of VGA from SYMON and allows us to transmit over long distance on CAT5 and CAT6	$700	$1,400
2	MTP DA 4	Allows for a single source from TPT transmitter to be sent to multiple locations	$900	$1,800
2	TPR HD BNC	Transmitter: allows for conversion of VGA from SYMON and allows us to transmit over long distance on CAT5 and CAT6	$1,000	$2,000
1	Cable and Misc.	The cost for the cabling, mounting ad installation of this equipment	$400	$400

LABOR	
Installation of 5 - 57” monitors	$5,000
Programming of system touch panel that supports the SYMON and the AV system	$2,000
CAT 6 cable installation for feed from local rack to the Supervisors office	$600
CAT 6 cable installation for CAT 6 and RF feed to DPSC Admin area	$600

Total estimated cost for project:	**$65,550**

In order to complete the project the following items will be required:

MONITOR COSTS:
5 NEC LCD5710-BK-IT monitors at a cost of $10,000 each ($50,000 total) will allow for a larger display of data.
5 Brackets each costing $350 (a total of $1,750)for wall mounts for each of the display devices
NECESSARY SYMON EQUIPMENT
(2) TPT HD15 A transmitters costing $700 each (total of $1,400) will allow for conversion of VGA from SYMON and allows us to transmit over long distance on CAT5 and CAT6
(2) MTP DA 4 box costing $900 each (total of $1,800) allows for a single source from a TPT transmitter to be sent to multiple locations
(2)TPR HD BNC transmitter costing $1,000 each (total $2,000) allows for conversion of VGA from SYMON and allows us to transmit over long distance on CAT5 and CAT6
(1)Cable and Misc. the cost for the cabling, mounting and installation of this equipment will be $400.

LABOR
Installation of (5) 57” monitors will cost $5,000.
Programming of system touch panel that supports the SYMON and the AV system will cost $2,000.
CAT 6 cable installation for feed from local rack to the Supervisors office will cost $600.
CAT 6 cable installation for CAT 6 and RF feed to DPSC Admin area will cost $600.