

FY16

PSAP GRANT PROGRAM APPLICATION



VIRGINIA INFORMATION
TECHNOLOGIES AGENCY
Integrated Services Division



FY16 PSAP GRANT PROGRAM APPLICATION

HOW TO APPLY/DEADLINE

The grant application is available and accessible from VITA's Integrated Services Program's website

(<http://www.vita.virginia.gov/isp/default.aspx?id=8578>). Upon completion of the application, it is to be submitted to your Regional Coordinator. Any supporting documentation must also be submitted along with the application, including mandatory budgets for projects (if applicable).

After the close of the grant application cycle, a Grant ID and email receipt notification will be sent to the e-mail address listed on the application received.

All funding requests must be submitted using the grant application. Technical assistance is available from VITA's Public Safety Communications (PSC) staff throughout the grant process. The FY16 PSAP Grant Application Cycle starts July 1, 2014 and concludes on September 30, 2014 at 5:00 pm.

ALL APPLICABLE SECTIONS MUST BE COMPLETED IN ITS ENTIRETY OR THE APPLICATION WILL BE CONSIDERED INCOMPLETE AND NOT ACCEPTED FOR CONSIDERATION.



FY16 PSAP GRANT APPLICATION

PROJECT TITLE

UPS Module Replacement – Public Safety Radio System

GRANT APPLICANT PROFILE/PROJECT CONTACT

PSAP/HOST PSAP NAME: Arlington County Emergency Communications Center

CONTACT TITLE: ECC Administrator

CONTACT FIRST NAME: Adrienne

CONTACT LAST NAME: Quigley

ADDRESS 1: 1425 North Courthouse Road

ADDRESS 2: [Click here to enter text](#)

CITY: Arlington

ZIP CODE: 22201

CONTACT EMAIL: aquigley@arlingtonva.us

CONTACT PHONE NUMBER: 703-228-5142

CONTACT MOBILE NUMBER: [Click here to enter text](#)

CONTACT FAX NUMBER: [Click here to enter text](#)

REGIONAL COORDINATOR: Brian Crumpler

HOST PSAP AND PARTICIPATING PSAPS/LOCALITIES

_____	_____
_____	_____
_____	_____
_____	_____

GRANT TYPE

- | | |
|---|--|
| <input checked="" type="checkbox"/> Individual PSAP | <input type="checkbox"/> Shared Services |
| <input type="checkbox"/> Regional Initiative | <input type="checkbox"/> Consolidation |
| <input type="checkbox"/> Secondary Consolidation | <input type="checkbox"/> |



GRANT PROGRAM TYPE

- Continuity and Consolidation
- Enhancement

TIER

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- Technically Outdated*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

If technically outdated or non-vendor supported, application MUST include age and/or version of hardware/software.

VERSION: _____ # YEARS of HARDWARE/SOFTWARE: _____

Installation Year 2006. Life Cycle 3-5 Years. Currently On Year 8 of hardware.

PRIORITY/PROJECT FOCUS UPS/ GENERATOR

If "Other" selected, please specify: [Click here to enter text](#)

FINANCIAL DATA

Amount Requested: \$ 92,400

Total Project Cost: \$ 92,400

STATEMENT OF NEED



This statement should reference the relationship to the current funding priorities established by the Grant Committee and include evidence of any financial need, along with additional information on the impact on operational services; consequences of not receiving funding; inclusion of project in a long-term or a strategic plan; and local sustainability:

This project is related to the established priorities of UPS/Generator. This project is focused on ensuring a continuous supply of power to mission critical radio sites within Arlington County through the replacement of battery modules located at each of the six radio sites within Arlington County.

If funding is not received for this project, Arlington will look to other funding sources, however those are scarce, and the department would more than likely than be 2-3 years away from potential funding opportunities.

Arlington is in the process of revamping its current strategic plan, and one of the emerging strategies of the plan is a focus on critical infrastructure and systems, notably power. Projects are being identified in this plan, however funding opportunities at the local level are not always readily available.

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

Arlington County ECC will submit budget requests to Arlington County in future budget years to make the sustainment of this technology part of the ongoing base budget, in order to ensure that equipment is maintained and replaced before it transitions to "Out of Service".

COMPREHENSIVE PROJECT DESCRIPTION



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

The goal of this project is to ensure that all critical radio system equipment has the necessary power supplies to continue 24/7 operations for mission critical needs. In order for this occur, Arlington needs to stagger the replacement of battery modules located at the six radio sites. Below is the problem statement, identified by Arlington County staff:

The Liebert Nfinity Power System is a modular UPS available in 8 & 12 bay frames. It is intended for use with workstations, servers, network telecom and other sensitive electronic equipment. It provides continuous, high-quality AC power to equipment, protecting it from any power disturbance due to blackouts, brownouts, surges or noise interference.

The Liebert Nfinity modular UPS was designed to provide maximum system availability to business-critical equipment. Liebert Nfinity is also an easily adaptable UPS system. By simply installing additional Power or Battery Modules, you can expand your current system capacity or extend your backup runtime.

Arlington County has deployed 6 Nfinity UPS Power Systems, one at each Public Safety Land Mobile Radio site. Each of these systems were deployed in January, 2006. Each system operates to provide continuous, high-quality power to the mission critical infrastructure that supports voice communications for all Arlington County emergency services as long as for many public service departments and Arlington Public Schools.

Over the last few years we have been experiencing an increase in the number of battery module failures on these systems. Many times these failure are rectified by technicians performing certain procedures to reset, repair or replace the modules. One failure, last month, caused a battery module to begin to melt and degrade inside the unit. Each time these failures occur there is an increase in the likelihood that the modules will not perform at expected ratings during a commercial power outage.

The manufacturer has provided some information about Mean Time Before Failure standards for the systems. These standards are complicated, at best, and depend on many assumptions about the quality of the work space, ambient temperatures and rated loads. We have been unable to determine an exact life span for the systems themselves but we have been provided language about the expected life of batteries in these systems. The manufacturer states "The expected life of the battery is 3 to 5 years or a minimum of 250 complete discharge cycles." Base on the time factor alone, the batteries in these modules are well overdue for replacement. Most of the batteries in these systems have been in place for more than 8 years.

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
<input type="checkbox"/> INITIATION (Project approved by appropriate stakeholders)	7 / 30 / 2015
<input type="checkbox"/> DESIGN/PLANNING (Project, system, or solution requirements are developed)	7 / 30 / 2015
<input type="checkbox"/> ACQUISITION (Selected system or solution is procured)	7 / 30 / 2015
<input type="checkbox"/> IMPLEMENTATION (Selected system or solution is configured and installed)	8/30/2015
<input type="checkbox"/> TESTING/COMPLETION (Selected system or solution is tested and put in production)	8/30/2015

Identify the longevity or sustainability of the project.

This project will have a multi-year sustainability during which time Arlington will begin to plan out how to fund this with local dollars and set up a replacement cycle so a percentage of the of the equipment can be replaced per year, rather than requiring a large investment.



Describe how this project supports the Virginia Statewide Comprehensive 9-1-1 Plan.

The reliability of the County’s radio system supports all initiatives identified in the Virginia Statewide Comprehensive 9-1-1 plan

SHARED SERVICES/REGIONAL INITIATIVE (if applicable)

The relationship of the initiative to the participating PSAPs:
N/A

Intended collaborative efforts:
N/A

Resource sharing:
N/A

How does the initiative impacts the operational or strategic plans of the participating agencies:
N/A

CONSOLIDATION (Primary or Secondary) - (if applicable)



How would a consolidation take place and provide improved service:

N/A

How should it be organized and staffed:

N/A

What services should it perform:

N/A

How should policies be made and changed:

N/A

How should it be funded:

N/A



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

N/A

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. However, budgetary quotes received from a particular vendor(s) during the application process do not commit the PSAP to use that vendor(s) once the grant is awarded.**) Briefly explain the reason for each requested budget item and provide the basis for its cost. In addition, if contingency cost has been added, please identify the amount.

Number of Radio Sites in Arlington: 6

Number of Modules in Need of Replacement per site: 14

Total Number of Replacements: 84

Average Cost per Module: \$1,000

Cost Required for Hardware: \$84,000

The cost per module was provided as a range by our vendor, and at this stage we have not yet gone out to bid for prices. Cursory estimates had new modules up to \$1,000 per module.

We have included a contingency of 10% of the hardware cost of \$84,000 for a cost of \$8,400 raising the project to \$92,400.



EVALUATION

How will the project be evaluated and measured for achievement and success:

As this project would be a replacement of outdated technology, staff would look to the implementation date of the new technology and work to ensure that radio system uptime met/exceeded established metrics going forward. In addition, staff would work to ensure that funds were set aside in future local budgets to ensure these items can be replaced as they near their end of life and before they exceed it.



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"