

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

Centralized UPS

### GRANT APPLICANT PROFILE/PROJECT CONTACT

PSAP/HOST PSAP NAME: Tazewell County 911

CONTACT TITLE: Director of 911 & Emergency Communications

CONTACT FIRST NAME: Derrick

CONTACT LAST NAME: Ruble

ADDRESS 1: 315 School Street

ADDRESS 2: Suite 9

CITY: Tazewell

ZIP CODE: 24651-1398

CONTACT EMAIL: derrick.ruble@tcsova.org

CONTACT PHONE NUMBER: (276) 385-1727

CONTACT MOBILE NUMBER: (276) 979-6147

CONTACT FAX NUMBER: (276) 988-5012

REGIONAL COORDINATOR: Tim Addington

### HOST PSAP AND PARTICIPATING PSAPS/LOCALITIES

**Tazewell County 911 (Tazewell County Sheriff’s Office – Communications Division) 30 Public Safety Agencies and the Towns of Bluefield, Cedar Bluff, Pocahontas, Richlands, and Tazewell will be impacted.**

### 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

Non-Vendor Supported\*

Technically Outdated\*

Strengthen

Not Applicable

**If technically outdated or non-vendor supported, application MUST include age and/or version of hardware/software.**

VERSION:

# YEARS of HARDWARE/SOFTWARE:

**PRIORITY/PROJECT FOCUS** UPS/ GENERATOR

**If "Other" selected, please specify:** 1T

**FINANCIAL DATA**

Amount Requested: \$ 29,480

Total Project Cost: \$ 29,480

**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:

The Tazewell County 911 Center has seen growth in recent years with staffing, mission critical systems, and demands from public safety agencies and the public to provide additional services with limited resources. Funding priorities in recent years have been to update the communications systems within Tazewell County with some components being over 20 years old. Currently Tazewell County has committed almost \$250,000 in communications upgrades of this budget year which has resulted in smaller items such as a centralized UPS for the PSAP being placed in a long term category of need. Without the ability to purchase a centralized UPS in the next budget cycle, the 22 point of use UPS's will be approaching end of service life over the next 18 months and will place a burden on the limited operational and capital improvement funding for the PSAP.

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

The project will be maintained over the anticipated fifteen (15) year service life of the centralized UPS, based on the manufactures recommendations for maintenance & service, and will be funded via the Maintenance & Repairs Line Item that is used to maintain mission critical systems within the PSAP.

## 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 Tazewell County 911 Center currently uses 11 individual, 8 double capacity, and 3 large point of use UPS's in our operations area with several supporting systems such as AVL, weather, and camera displays not having UPS backup and must be reset each time after a power interruption. Our goal is to replace the multiple point of use UPS's with a single large centralized UPS that will handle our current load, and near future needs, for up to 12 minutes without interruption giving time for the backup generator to come online. This will greatly reduce the amount of maintenance and service required on the 22 individual point of use UPS's. Benefits anticipated from the transition individual point of use to a centralized UPS include longer life expectancy from the batteries, easier to manage one centralized compared to many point of use systems, better power quality from on line double conversion typologies common in centralized systems, and centralized systems typically see a fifteen (15) year life span compared to the limited years of point of use systems. Scheduled outage of mission critical systems during the cutover will be preplanned to lessen the negative impact which would come to the residents of Tazewell County. Actual cutover to a centralized UPS system will be planned out weeks and advanced and the actual switch should take no longer than two (2) hours.

**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"/> <b>INITIATION</b> (Project approved by appropriate stakeholders)	07 / 31 / 15
<input type="checkbox"/> <b>DESIGN/PLANNING</b> (Project, system, or solution requirements are developed)	08 / 31 / 15



<input type="checkbox"/> <b>ACQUISITION</b> (Selected system or solution is procured)	<b>10 / 15 / 15</b>
<input type="checkbox"/> <b>IMPLEMENTATION</b> (Selected system or solution is configured and installed)	<b>11 / 30 / 15</b>
<input type="checkbox"/> <b>TESTING/COMPLETION</b> (Selected system or solution is tested and put in production)	<b>01 / 15 / 16</b>

Identify the longevity or sustainability of the project.

With the current use of point of use UPS's that have a typical five (5) year or less service life, the new centralized UPS system will have an anticipated fifteen (15) year service life and will be maintained per manufactures specifications as other mission critical systems are within the PSAP. The system would be monitored and serviced by the Communications Division of the Sheriff's Office.

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

We feel that this project supports the Virginia Statewide Comprehensive 9-1-1 Plan under the Infrastructure, Equipment & Technology aspects by installing and/or replacing infrastructure and equipment that does not meet the needs of the PSAP in providing the delivery of 9-1-1 services to the public. It will allow for continuous, uninterrupted 9-1-1 service in the event of a natural or man-made disaster and weather related events common to Tazewell County.

**SHARED SERVICES/REGIONAL INITIATIVE (if applicable)**



The relationship of the initiative to the participating PSAPs:  
Not Applicable

Intended collaborative efforts:  
No Applicable

Resource sharing:  
Not Applicable



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

Not Applicable

**CONSOLIDATION (Primary or Secondary) - (if applicable)**

How would a consolidation take place and provide improved service:

Not Applicable

How should it be organized and staffed:

Not Applicable



What services should it perform:

Not Applicable

How should policies be made and changed:

Not Applicable

How should it be funded:

Not Applicable

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

Not Applicable



## 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.

\$9,900 – Stand Alone 10 kva UPS with External Bypass

\$7,400 – 2<sup>nd</sup> 10 kva UPS to Provide Redundancy

\$9,500 – Installation

\$2,680 – 10% Contingency

***\$29,480 – Total Budgeted Project Cost***

Tazewell County 911 is requesting a 10 kva centralized UPS, with secondary unit for redundancy and growth, and installation to meet the current and future backup electrical demands of mission critical systems within the PSAP.

Vendor Budget is Attached

## EVALUATION

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

Achievement and success will be based on the times when the centralized UPS operates during power outages and allows all mission critical systems to remain online until the backup generator comes online. Currently not all mission critical systems are on a UPS and must be reset each time. Also not all 22 point of use units operate at the same levels due to the high loads placed upon them.



## 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"

## Derrick S. Ruble

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**From:** Ralph Lovelace <Ralph.Lovelace@tru-power.com>  
**Sent:** Thursday, September 18, 2014 11:04 AM  
**To:** Derrick S. Ruble  
**Subject:** Centralized UPS

Derrick, per our conversation yesterday, please see following budget and justification for a centralized UPS.

Why Centralized vs Point of Use.

Centralized UPS systems are utilized by most IT facilities that have loads greater than 5 kva. Point of use UPS systems can be difficult to manage when their numbers are ten or higher. Benefits of the centralized UPS are:

Higher efficiency

Longer life expectancy from batteries (5 years compared to 2-3 years)

Easier to manage one centralized compared to many point of use systems

Better power quality from on line double conversion typologies common in centralized systems

Does not take up space in the IT rack and less likely to be accidently turned off etc.

Centralized systems enjoy a typical fifteen year service life compared to a few years by point of use systems.

Budget for stand alone 10 kva UPS with external bypass.....\$9,900

This solution would all up to four additional 10 kva UPS blocks to be added for capacity or redundancy

Budget for second 10 kva UPS to provide redundancy.....\$7,400

Battery reserve run time would be 12 minutes at full load.

Installation is estimated between \$6,500 - \$9,500.

I hope this helps.

Thanks, Ralph

Please check out my LinkedIn profile.



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