

PSAP Grant Program Grant Ranker

View Application--23--Russell County E-911 Addressing and Mapping Upgrade

Grant Period: 2009

Tier: Strengthen current equipment and service delivery capability by upgrading existing wireless E-911 related equipment or services (**STRENGTHEN**)

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

Priority: Other (**OTHER**)

Primary PSAP Applicants: Russell County

Jurisdictions Served: Town of Castlewood
Town of Cleveland
Town of Honaker
Town of Lebanon
Town of St. Paul
Russell

Project Director:

Bo Bise
911 Coordinator
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Project Description:

Russell County E-911 is seeking assistance to purchase a plotter, mapping software upgrade, and laptops for addressing.

Total Project Cost \$55,250.00

Amount Requested: \$44,200.00

Matching Funds: \$11,050.00

Additional Local Funds: \$0.00

Statement of Need:

The Russell County 911 addressing office is in need of a plotter, printer, and scanner combination for the assistance in producing our own paper maps. Currently, the 911 office utilizes the services of Inove Graphics producing any maps necessary for the PSAP and office. This at times can be costly. The unit will also be used for geo-referencing which aids in adding subdivisions, large land areas, and building plans to our mapping. It can also assist in producing parcel edits, particularly for subdivisions, mobile home parks, etc. The scanner functionality of this unit will allow us to add blue prints and building plans of all major structures (schools, hospitals, factories, power plant, facilities using PBX systems, etc.) as a layer to our existing mapping projects. Aside from the additional uses that will increase our ability to fully utilize our addressing/mapping system, the plotter will be utilized to create hard copies for use during times when the computerized mapping system in the PSAP may not be available. The current version of our mapping software is approaching the time for an upgrade. Some of the benefits include better map legibility due to improved labeling of map features and the ability to read geodatabase format now in use with the E911

mapping layers. The upgrade will allow for easier updating to remote computers and increase maintenance capabilities. The upgrade will include functionality that will allow the program to be somewhat more user friendly. Not only will the upgrade allow us to perform the day-to-day functions necessary for maintaining the 911 addressing and mapping, but it will position us to begin to explore other applications, such as Pictometry, that will enhance our GIS system for delivery of 911 service throughout the entire county and each town that we serve. Included in the request for the software upgrade for mapping is the need for 2 laptop computers to be used in the field for the addressing of new structures and the creation of new roads. We are currently utilizing computers that are more than five years old and are beginning to experience issues with these units that result in time delays and the potential loss of data. With the current mapping projects we are utilizing and the anticipated software upgrade, our current laptops will continue to have slower processing times and create unit failures. These laptops are also used in the PSAP during events when it is necessary to have additional ability to reference the mapping.

Project Impact:

The mapping software upgrade that will increase the functionality of our current application, the laptops for field work necessary for addressing new structures, and the plotter for printing and maintain map data will allow us to utilize our mapping system to the fullest extent to provide better and accurate data for locating callers in the event of an emergency.

Consequence of Not Receiving:

It is doubtful that this project will continue forward. Assistance is sought for the initial purchase that will allow any available local funding to be used for the match and to sustain the project (i.e. maintenance, up keep).

Part of Long Term or Strategic Plan?: Yes

Likelihood of Completion Unfunded?: 0%

Other Available Funding Sources?: No

Percent of Grant Funding Requested To Total Funding Cost?: 80%

Is Project Locally Sustainable?: Yes

Comprehensive Project Description:

Russell County E-911 is seeking assistance to purchase a plotter, mapping software upgrade, and laptops for addressing to allow us to utilize our mapping system to the fullest extent possible to provide better and accurate data for locating callers in the event of an emergency. The first component of this project is a Oce TCS500 plotter, printer, copier, and scanner system. This unit processes large and complex files, images with raster and vector data, and other mapping data associated with GIS necessary for 911 mapping, addressing, structure blue prints, and location. Our office currently does not have a printer and must purchase maps of any type from a local vendor. This unit not only serves as a plotter/printer but is capable of scanning large maps, plans, and layouts to incorporate into our current mapping projects and layers. This unit will improve productivity, quality, and operations within the 911 mapping/addressing office. In order to be more efficient and productive with the addressing of new structures and the creation of new roads and driveways, we are seeking to upgrade the current mapping software, GeoLynx MO 5.5, to GeoLynx 7.0, As with any software upgrade, this will allow us to more efficiently perform the tasks necessary for updating and maintaining the mapping utilized by the PSAP for processing of 911 calls. We plan to implement this software upgrade and install the plotter/printer at the same time. The laptops currently used to perform all necessary field work for assigning structure addressing, add new roads, and provide additional access to mapping data during critical events in the PSAP are over 5 years old. The capability to process more and/or increased data is not feasible. Slow processing time and functionality failure are being experienced. These units are used on a daily basis in the field and office and are critical equipment for maintaining accurate 911 addressing and mapping. The requested units will utilize the mapping software in which the upgrade is being requested and will also be used with the requested plotter/printer to produce accurate maps for use in the PSAP and for emergency events. It is anticipated that the timeline for this project will not exceed 6 months once the grant is approved. Vendor selection will not be difficult and none of the components require extensive implementation phases. Realistically equipment and software could be operational the same day the selected vendors bring the product on site. Maintenance and upkeep will be the responsibility of Russell County 911 staff. Future budgets will include an allocation for such expenses. Office staff will be charged with the task of assuring equipment is

functional and software is performing as intended.

What type of interface or compatibility solution will be used between existing equipment and/or software and that which you intend to purchase?:

Current system configuration will not be affected.

What is the overall relationship of your project to your PSAP or locality's established long-range future plans?:

It has been the intent of this office to purchase a plotter since the inception of the 911 project and has remained part of the operational plan. Lack of funding has necessitated re-evaluating this purchase each budget year.

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

The plotter will meet current and future expectations of the 911 office for providing map data to the PSAP and emergency community. The software upgrade and laptop computers will allow for the continued use of the mapping program to add structures and roads for addressing as essential for locating callers during an emergency.

Budget and Budget Narrative:

Russell County has requested budgetary pricing for the items requested. Listed below you will find estimated cost for purchase and upgrade of equipment. 1-TCS500 3 ROLL PRINTER, PLOTTER AND SCANNER \$42,900.00 1-GEOLYNX MAPPING UPGRADE 7.0 \$8,360.00 2-UNTRA LAPTOP COMPUTERS FOR MAPPING(\$1,995 EA) \$2,390.00 Price could be lower depending on availability of demo units remaining

Ongoing Expenses:

The only expenses foreseen are plotter paper, ink, and maintenance which will be covered in our operating budget. We plan to charge a nominal fee for maps that are printed for businesses, the general public, and organizations not associated with local government to offset the cost of supplies.

Evaluation:

The purchase of this equipment and software will be overseen by the 911 coordinator. The process of purchasing and coordinating the installation of all equipment will be done by the 911 office. There will be a coordinated effort to work with the vendors to ensure proper performance of each item.

What are the short term, intermediate, and/or long-term outcomes desired for this project?:

Anticipated outcomes of the project include the opportunity to produce maps, increase the quality of mapping services for Russell County, provide more up-to-date maps, to be able to provide maps for specialty needs in emergency situations such as flooding, evacuation, or disaster needs, and to have computers for field work capable of performing the day-to-day operational tasks required to provide addresses and update mapping projects.

What measures will be used to determine outcomes?:

Measures used to determine successful outcomes will include the ability to produce better quality maps for overall use within the PSAP, 911 office, and the field. Improvement will be immediately recognizable.

How will data be collected and how will evaluations be conducted?:

Data will be collected in everyday uses and evaluation will be continuous and ongoing as mapping projects are produced and addresses are assigned. Quality of maps produced and improvement in addressing process will be readily noticeable.

How will data be presented?:

As related to this project, data gathered involves the items' everyday use for assigning address in the field and producing maps of various projects. If there are issues and concerns, this information will be noted and captured by the 911 Coordinator who will then bring these to the attention of the appropriate vendor.

Attachments

tcs500.doc
mapping.doc
vmm.doc

Quote for Upgrade of GeoLynx MO to GeoLynx AO in dispatch center

Per your request we have prepared the following quote for providing upgrade mapping software, GeoLynx AO 6.0. Currently the dispatch center runs GeoLynx MO 5.5. With the upgrade to AO the County will see the benefits of better map legibility due to improved labeling of map features and the ability to read geodatabase format which the County now uses with E911 mapping layers. Map setup will be done to transition the current MO setup to the new data format and AO setup. Installation and testing will be done at the dispatch center. Once complete the GIS technician will be trained on the mapping interface of the new AO version. The current support and maintenance the County already has with King-Moore and GeoComm will continue as is with this new AO version. Please let me know if you have any questions or need any further quotations.

Software/Services

	Quantity	Each	King-Moore
GeoLynx AO ^{2.0} 5.8 Dispatch Mapping Software (includes supervisor copy)	5	\$1,490	\$7,450.00
Map setup	5	\$70/hr	\$350.00
Installation and testing	6	\$70/hr	\$420.00
Training with GIS technician	2	\$70/hr	\$140.00
	Total -		\$8,360.00

Map Data Development and Configuration/Computer equipment

The County must provide map data in an acceptable digital format such as ESRI following characteristics:

- A. Attributed Center Lines with Accurate Street Segments and Ranges
- B. Accurate 911 Addresses and Addressing Schemes
- C. Boundary Info for Jurisdictions and ESNs
- D. MSAG Valid Street Names

Respectfully submitted,



Brandon Moore, GIS President
King-Moore, Inc.

276.356.8224 or moore@king-moore.com

September 6, 2007 DEMO FLOOR EQUIPMENT SELL OFF - PROMO

Subject	Description	Purchase Price
<p>TCS500 Multi Function Wide Format System</p>	<p>Includes:</p> <ul style="list-style-type: none"> ❖ 1 TCS500 3-Roll Print Engine ❖ 1 XPe Power Logic Controller ❖ 1 TCS500 Color Scanner ❖ Adobe Postscript 3 ❖ Copy/Color ❖ Scan to File ❖ 1 17" GUI Kit/cabinet ❖ Copy Rack ❖ 5 Help Desk Incidents ❖ Delivery and Installation ❖ Postscript 3 printing ❖ Training/AE on site ❖ Delivery and Install 	<p>New System Price \$42,900.00</p> <p><u>Demo Promo</u> <u>\$26,037.00</u></p> <p><u>Demo PROMO</u> <u>First come</u> <u>Limited number of</u> <u>units</u></p>
<p>Maintenance</p>	<p>Océ Total Care Service</p> <ul style="list-style-type: none"> ◆ Full maintenance ◆ Annual preventative maintenance calls ◆ 4-8 hour response time – next day response for corrective maintenance calls 	<p>\$156.00 per month Standard service</p>
<p><i>Optional lease</i></p>	<p><u>Est. 60 FMV month Optional Lease</u> –</p>	<p><i>\$608.50 /month</i></p>

I. Warranty

- 90-day Whichever comes first on-site maintenance includes labor, parts and travel during Océ business hours. No allowance during warranty period.

Ken Duncan
Sr Account Manager
Reprographics
919-280-8731

