

PSAP Grant Program Grant Ranker

View Application--86--Address Point Alignment

Grant Period: 2009

Tier: Replacement of non-vendor supported wireless E-911 equipment or service to enable primary PSAP to maintain current service levels to the general public (**NON-VENDOR SUPPORTED**)

Grant Program: Continuity and Consolidation **Grant Type:** Individual PSAP

Priority: RCL maintenance (**RCL**)

Primary PSAP Applicants: Nelson County

Jurisdictions Served: Nelson

Project Director:

Susan Rorrer

Information Systems Director

PO Box 336 84 Courthouse Sq Lovington, VA 22949

434-263-7120 (phone)

434-263-7004 (fax)

srorrer@nelsoncounty.org

Project Description:

Nelson County proposes to adjust structure point locations and associated addressing to the 2007 VBMP imagery and roof prints. The County's structure locations were migrated from existing CADD data as part of the initial GIS / E-911 data development project done in 2005-2006. Successful accomplishment of this project will correct structure location errors resulting from errors in field location and basemap changes associated with adopting the VBMP orthophotography as the County's basemap. Resolution of these errors will prevent confusion for GIS and E-911 users in locating addresses. This adjustment process will insure that the GIS and E-911 data is spatially accurate and easy to use. The project will also address inconsistencies between GIS, MSAG and ANI/ALI data.

Total Project Cost \$44,775.00

Amount Requested: \$35,820.00

Matching Funds: \$8,955.00

Additional Local Funds:

Statement of Need:

The proposed project is a tier 2 project and is most closely related to continuity priority 8, Structural Addressing. Structure locations and associated addressing information are a key data set used by E-911 for locating and responding to emergencies. Nelson County structure and address point locations were migrated from the existing CADD data as part of the initial GIS / E-911 data development project done in 2005-2006. These existing structures were not adjusted to the 2002 imagery due to the number of new structures that were built since 2002 (not on the imagery) and the finite amount of funding available for initial development. Nelson County has since purchased structure planimetrics through the 2006/2007 VBMP project, however addressing and access data needs to be adjusted to accurately reflect the location of

addresses in the County. Now is the most cost efficient time to adjust the structures and addressing to their actual locations and roof prints using the 2007 imagery. Completion of this project would allow the County to accurately reflect the location of structures and addressing to enable the PSAP and emergency personnel to maintain their service levels to all citizens and businesses. Nelson County is a small rural locality whose revenue is primarily dependent upon local personal property and real estate taxes. With increased demands on local revenue, assistance through the PSAP Grant Program is essential to continuing to provide quality services through the communications center.

Project Impact:

The proposed project will improve the ability of emergency personnel to promptly respond to calls for service from County citizens. The project will enable the accurate location of both wireline and wireless 911 callers especially since arrival at most wireless call locations is accomplished using its relation to addressed structures.

Consequence of Not Receiving:

The County has some available funding for address maintenance, but lacks the in-house time and expertise to perform this project. If this funding is not received, the County will not have a GIS or E-911 with accurate structure and address locations.

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:

Successful completion of this project will improve the spatial accuracy of the structures points and addressing by aligning them to the 2007 imagery. This adjustment process will insure that the GIS and E-911 data is spatially accurate. Project Goal: To maintain accurate County structure location roof prints and addresses that can be used by local emergency response and local GIS. Implementation Strategy The implementation strategy is to acquire the 2007 VBMP imagery, determine the structure points that are out of alignment with the structures as shown on the imagery, and update their location to reflect what actually exists. This will be implemented by establishing a pilot area to evaluate and approve the project products and then a full countywide implementation. The effort shall approximately 2 months to fully complete. The resulting efforts shall become and remain part of the County's GIS data which serves a variety of functions, including E-911 dispatch, community development and planning, tax and revenue, economic development, and regional preparedness. Work Plan The work plan consists of the following tasks: Project Kick-off – We will convene a project kick off meeting to confirm expectations with respect to scope schedule and fee. Imagery Acquisition – We will acquire the 2007 imagery from VGIN and load it into our GIS. Structure Location Determination – We will overlay the existing structure points on the 2007 imagery and determine the association of structure point to structure on the imagery. Structure Location Adjustment – Structures that are found to be out of place with respect to the imagery will be moved within the GIS to align with the imagery and roads. ALI Audit – Adjusted structure points and associated addresses will be compared to a current ALI data set to confirm that all County structure addresses conform to and are covered by the ALI. Discrepancies will be investigated in the GIS and if necessary forwarded to the ALI provider for resolution. E-911 Data Feed – The resulting structure point and address data set will be prepared and loaded into the County mapping system. This will provide accurate information for E-911 call takers and dispatchers to accurately locate wireless and wireline emergency calls.

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

The County, in conjunction with the vendors, plans to use industry standard GIS and mapping software that consumes and produces industry standard data files and formats to ensure compatibility with other products.

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

This project is part of the County's long-term plan and commitment to improve the accuracy of the structure and addressing information using the VBMP imagery and road centerlines as the County's base data.

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

No equipment will be purchased as part of this project.

Budget and Budget Narrative:

See attachment.

Ongoing Expenses:

There will be no ongoing expenses related to this project.

Evaluation:

The project will be evaluated through careful monitoring of to ensure that the project vendor has delivered the product in compliance with the criteria defined in the scope of work.

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

Desired Project Outcomes: • The County has a comprehensive, accurate structure and address point and roofprint data that will overlay the 2007 imagery and road network within their GIS. • The County has a comprehensive, accurate structure and address point and roofprint data that will overlay the 2007 imagery and road network within their E-911 mapping system. • The County shall have a single, seamless GIS database that can be leveraged across a number of other County Departments.

What measures will be used to determine outcomes?:

The updated structure points will overlay the location as shown on the 2007 imagery within the accuracy standards for the given area (1"=200' and 1"=100' scale mapping standards). Successful implementation will be defined in terms of project milestones and final project deliverables. Project milestones include: 1. Project Kick-off 2. VBMP Imagery acquisition 3. Pilot area production 4. County Review of pilot data 5. Data delivery 6. County acceptance 7. Data preparation for E-911 CAD Mapping 8. Final data delivery and acceptance

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

Evaluation data will be collected throughout the project as specific milestones are achieved. The data sources will include regular project status reports, milestone testing and acceptance documents, and final project acceptance documents

How will data be presented?:

As part of the overall project, a Project Management Document shall be developed that incorporates each stage of the project, and provides an audit trail associated with final outcomes, final project metrics, and achievement of specific project deliverables.

Attachments

[Nelson Structure-Grant-Request.pdf](#)

Nelson County, VA
Structure and Addressing Adjustment Grant Request
Budget Attachment

Proposed Project Fee

Required Tasks	Total Fee	Grant Request	Matching Funds
Receive, Verify, Loading Data	\$ 2,012	\$ 1,610	\$ 402
Adjust Points to 2006/2007 Imagery/Roofprints	\$ 22,702	\$ 18,161	\$ 4,540
Adjust Access Lines to 2006/2007 Imagery	\$ 5,130	\$ 4,104	\$ 1,026
Link Points to Roofprints	\$ 2,012	\$ 1,610	\$ 402
Resolve Placement Discrepancies with County	\$ 4,845	\$ 3,876	\$ 969
QC of Adjustment	\$ 3,230	\$ 2,584	\$ 646
Resolve ALI Audit Discrepancies with County	\$ 4,845	\$ 3,876	\$ 969
Total	\$ 44,775	\$ 35,820	\$ 8,955