

Resolution No.: 16-1543
Introduced: October 5, 2010
Adopted: October 26, 2010

**COUNTY COUNCIL
FOR MONTGOMERY COUNTY, MARYLAND**

By: Council President at the Request of the County Executive

SUBJECT: Amendment to the FY11-16 Capital Improvements Program and Supplemental Appropriation #5-S11-CMCG-I to the FY11 Capital Budget Montgomery County Government Office of the County Executive Public Safety System Modernization (No. 340901) [\$21,616,000] \$19,552,000 (Source of Funds: Short-Term Financing)

Background

1. Section 307 of the Montgomery County Charter provides that any supplemental appropriation shall be recommended by the County Executive who shall specify the source of funds to finance it. The Council shall hold a public hearing on each proposed supplemental appropriation after at least one week's notice. A supplemental appropriation that would comply with, avail the County of, or put into effect a grant or a Federal, State, or County law or regulation, or one that is approved after January 1 of any fiscal year, requires an affirmative vote of five Councilmembers. A supplemental appropriation for any other purpose that is approved before January 1 of any fiscal year requires an affirmative vote of six Councilmembers. The Council may, in a single action, approve more than one supplemental appropriation. The Executive may disapprove or reduce a supplemental appropriation, and the Council may reapprove the appropriation, as if it were an item in the annual budget.
2. Section 302 of the Montgomery County Charter provides that the Council may amend an approved capital improvements program at any time by an affirmative vote of no fewer than six members of the Council.
3. The County Executive recommends the following capital project appropriation increase.

<u>Project Name</u>	<u>Project Number</u>	<u>Cost Element</u>	<u>Amount</u>	<u>Source of Funds</u>
Public Safety System Modernization	340901	Other	\$21,616,000	Short-Term Financing

4. This increase is needed to take advantage of a "Partial Payment in Lieu of Re-Banding (PILR)" offer from Sprint/Nextel toward the financing of new, upgraded, P25-compliant public safety radios. As an alternative to the currently planned "loaner" radio program, the PILR option would require accelerating the purchase of new public safety radios planned to be completed in the next four years to FY11, and provide \$3.3 million toward the County's radio replacement plan. In order to minimize the fiscal impact of accelerating the debt-financed radio purchases, it is recommended that the PILR be used to offset increase debt service costs in FY12 and FY13.
5. Acceptance of the PILR plan will accelerate implementation of the radio project within the CIP, reduce post re-banding operational costs and allow the County to take advantage of the \$3.3 million PILR funding from Sprint/Nextel. While additional appropriation is required for this project, this is offset by the additional PILR funding of \$3.3 million as well as reductions in and cost avoidance of future operating costs for maintenance and County labor. The Executive estimates the cost reductions and cost avoidance to be a minimum of \$3.317 million.
6. The Executive's request would support a significant upgrade to the type of public safety radio to be purchased from the previously planned Motorola model XTS5000 to Motorola's APX7000 model. The APX7000 model is expected to have a longer useful life for public safety users, provide multi-band interoperability, comply with P25 Phase-2 standards, and offer up-to-date "next generation" options. The XTS5000 model radio may become obsolete for public safety users when a new public safety radio infrastructure is implemented or in 2017 when new requirements are implemented for very narrow banding.
7. The recommended amendment is consistent with the criteria for amending the CIP because it will leverage a significant non-County source of funds and offers a significant opportunity which will be lost if not taken at this time.
8. The County Executive recommends an amendment to the FY11-16 Capital Improvements Program and a supplemental appropriation in the amount of \$21,616,000 for Public Safety System Modernization (No. 340901) and specifies the source of funds will be Short-Term Financing.
9. The joint Public Safety and Management and Fiscal Policy Committee was briefed on the Executive's proposal on October 4, 2010 and held worksessions on October 18 and October 25, 2010. The joint Committee agreed with the Executive's recommendation to not implement re-banding through a loaner program and to purchase the radios needed to allow the county to leverage the \$3.3 million PILR payment from Sprint/Nextel. Given the county's fiscal constraints, the large number of radios that will be purchased under this proposal, and the potential for reduced costs by purchasing through a proposed State of Maryland contract, the joint Committee recommends that the supplemental appropriation be reduced by about 10% to \$19,552,000. Combined with \$1,384,000 in existing FY11 appropriation, the joint PS and MFP Committee recommends total FY11 spending of \$20,936,000 for the proposed re-banding plan.
10. Notice of a public hearing was given and a public hearing was held on October 26, 2010.

Action

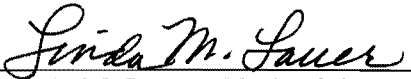
The County Council for Montgomery County, Maryland approves the following action:

The FY11-16 Capital Improvements Program of the Montgomery County Government is amended as reflected on the attached project description form and a supplemental appropriation is approved as follows:

<u>Project Name</u>	<u>Project Number</u>	<u>Cost Element</u>	<u>Amount</u>	<u>Source of Funds</u>
Public Safety System Modernization	340901	Other	\$19,552,000	Short-Term Financing

These funds must only be spent to acquire radios and accessories/equipment with zone doubling capacity that will allow the county to complete 800 MHz re-banding and leverage the PILR payment from Sprint/Nextel.

This is a correct copy of the Council's action.



Linda M. Lauer, Clerk of the Council

Public Safety System Modernization -- No. 340901

October 26, 2010

Category General Government
 Subcategory County Offices and Other Improvements
 Administering Agency County Executive
 Planning Area Countwide

Date Last Modified
 Required Adequate Public Facility
 Relocation Impact
 Status

~~September 29, 2010~~
 No
 None.
 On-going

Cost Element	Total	Thru FY09	Est 10	Total 6 Years	FY11	FY12	FY13	FY14	FY15	FY16	Beyond 6 years
Planning, Design, and Supervision	3266		0	3266	925	945	895	501	0	0	0
Land	0		0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0		0	0	0	0	0	0	0	0	0
Construction	3264		0	3264	125	725	1345	1069	0	0	0
Other	45979	2947	96	42936	20936	11000	11000	0	0	0	0
Total	52509	2947	96	49466	21986	12670	13240	1570	0	0	0
Funding Schedule											
Federal Aid	3343	2947	96	300	300	0	0	0	0	0	0
G.O. Bonds	3840	0	0	3840	200	800	1420	1420	0	0	0
Short-Term Financing	45326	0	0	45326	21486	11870	11820	150	0	0	0
Total	52509	2947	96	49466	21986	12670	13240	1570	0	0	0
Operating Budget Impact											
Maintenance				2408	48	0	680	500	680	500	0

DESCRIPTION

This project will provide for phased upgrades and modernization of computer aided dispatch (CAD) and voice radio systems used primarily by the County's public safety first responder agencies including Police, Fire and Rescue, Sheriff, Corrections and Rehabilitation and Emergency Management and Homeland Security. The modernization will include replacement of the current CAD system, replacement of mobile and portable radios, and voice radio communications infrastructure. The initial phase includes the CAD replacement, station alerting system replacement and the acquisition of the P-25 standard radio devices. A subsequent phase would include the replacement of the radio infrastructure, estimated at approximately \$50M. The current project includes \$1.7M for planning and design of the radio infrastructure replacement.

The previously approved Fire Station Alerting System Upgrades project (#451000) was transferred to this project in order to coordinate the upgrades with the new CAD system. The alerting system upgrades will modernize the fire station alerting systems at 32 existing stations, maintaining the ability to notify fire and rescue stations of emergencies. The alerting system, including audible and data signals, is essential for the notification of an emergency and the dispatch of appropriate response units from the county.

As voice, data and video are beginning to converge to a single platform, this project will provide a pathway to a modern public safety support infrastructure that will enable the County to leverage technology advances and provides efficient and reliable systems for first responders. This project will follow the methodologies and strategies presented in the Public Safety Systems Modernization (PSSM) plan completed in July 2009.

COST CHANGE

Cost change is due the accelerated purchase of P-25 compliant radios in order to meet immediate re-banding requirements without having to implement a radio "loaner" program and to take advantage of a "Partial Payment in Lieu of Rebanding" payment of \$3.3 million proposed by Sprint/Nextel. This PILR program will be operationally more efficient than the loaner program, will result in the county having public safety radios with update options that will comply with future FCC requirements. Funding associated with the FY14 purchase of radios has been deleted and will be re-evaluated.

JUSTIFICATION

The Public Safety Systems require modernization. The CAD system is reaching the end of useful life and does not meet the County's current operational requirements, impacting the response time of first responders to 9-1-1 calls. The CAD Roadmap Study, completed in March 2009, recommended replacement of the system to address existing shortcomings and prepare for the next generation 9-1-1 systems. Manufacturer's support for the voice radio system has begun to be phased out December 31, 2009. Beyond that date the manufacturer will only continue to provide system support on an "as available" basis, but will not guarantee the availability of parts or technical resources.

The CAD modernization will initiate with a detailed planning phase that will include the use of industry experts to assist in both business process analysis and developing detailed business and technical requirements for the new CAD system. Utilizing external consultants for this process will allow the County to incorporate lessons learned and best practices from other jurisdictions.

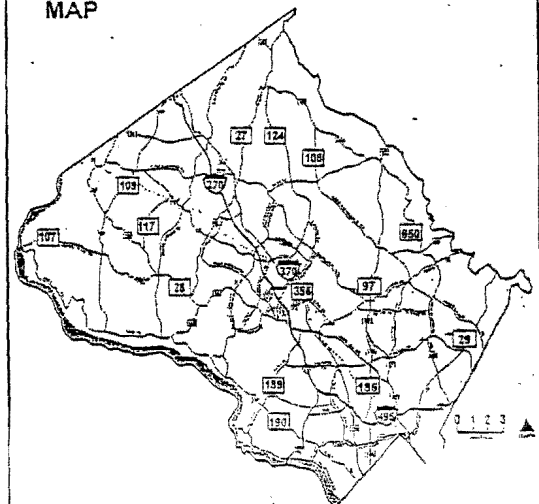
As more of the County's regional partners migrate to newer voice technologies, it will affect interoperable voice communications. To ensure that the County

APPROPRIATION AND EXPENDITURE DATA

Date First Appropriation	FY09	(\$000)
First Cost Estimate	FY11	52,509
Current Scope		52,509
Last FY's Cost Estimate		54,863
Appropriation Request	FY11	2,434
Appropriation Request Est.	FY12	12,670
Supplemental Appropriation Request		190,622
Transfer		0
Cumulative Appropriation		3,043
Expenditures / Encumbrances		2,947
Unencumbered Balance		96
Partial Closeout Thru	FY08	0
New Partial Closeout	FY09	0
Total Partial Closeout		0

COORDINATION

Public Safety Steering Group
 Department of Technology Services
 Department of Police
 Montgomery County Fire and Rescue Service
 Sheriff's Office
 Department of Correction and Rehabilitation
 Office of Emergency Management and Homeland Security
 Department of Transportation
 Department of Liquor Control
 Montgomery County Public Schools (MCPS)
 Maryland-National Park and Planning Commission (M-NCPPC) Park Police
 Washington Metropolitan Area Transit Authority (WMATA)

MAP

Public Safety System Modernization -- No. 340901 (continued)

maintains reliable and effective Public Safety (voice radio) communications for the operations of its first responders and to sustain communications interoperability for seamless mutual aid among its regional partners, the County needs to commence planning and implementation of a program to upgrade and modernize its portable and mobile radio units and subsequently the communications infrastructure. Acceleration of the public safety radio purchases and increased funding is needed to take advantage of a "Partial Payment in Lieu of Re-Banding" offer from Sprint/Nextel toward the financing of new, upgraded, P-25 compliant public safety radios. Upgrading from the Model 5000 to the APX 7000 Model and accelerating the purchase of the public safety radios will support Public Safety communications interoperability Countywide, as well as meet the Federal Communications Commission (FCC) mandated 800 MHz frequency rebanding requirements for nationwide public safety radio frequency interoperability. In addition, by accelerating the purchase of the public safety radios to FY11, the County will avoid the significant operational challenges of installing loaner radios and subsequent re-installation of the original re-programmed radios after the frequency modifications have been made. Further a third replacement would be required when the County acquired new radios.

The fire station alerting system upgrades were identified as a need under Section 5 of the MCFRS Master Plan (adopted by the County Council in October 2005) and detailed in the Station Alerting and Public Address (SA/PA) System for Fire/Rescue Stations, Rev 1, 2006. This project allows for the continuous and seamless functioning of the alerting systems within each fire station. A preliminary survey by DTS of existing conditions at all stations revealed system wide concerns, including inadequate spare parts inventory and lack of available maintenance support for alerting systems.

OTHER

Conditions: FY11 appropriation for this project must be used as follows:

Not more than \$300,000 for planning for public safety radio infrastructure replacement

Not more than \$550,000 for planning for CAD replacement

Not more than \$75,000 for planning and \$125,000 for construction of station alerting.

\$20.936 million is appropriated in FY11 to purchase P-25 compliant radios that will allow the county to complete the immediate re-banding within the 800 MHz frequency as required by the Federal Communication Commission. The radio replacement program must include the M-NCPPC Montgomery County Park Police.

The Executive must provide the Council with an updated radio inventory after the re-banding program is implemented, the new public safety radios have been assigned, and radios currently used by public safety staff are reassigned to non-public safety programs.

New radio infrastructure will be planned to open up the competitive environment and will demonstrate the ability to accept multiple vendors. The future purchase of public safety radios (other than to replace broken equipment) must be able to be supported by a P25 Phase-2 compliant infrastructure.

The use of State of Maryland infrastructure and purchase options will be aggressively pursued in order to minimize costs to Montgomery County.

The Executive must provide the Council with quarterly written updates beginning in January 2011 on the Public Safety Modernization project that include information on progress in planning, implementation, and spending for all components of the project.

The CAD procurement request must reflect the County's interest in maintaining the station altering functionality at the current level or better through the CAD system.

Funds appropriated for this project must not be used to purchase or implement a new CAD system or radio infrastructure until the Executive provides the Council with a detailed proposal and accurate cost estimates for the total project scope.

The RFP for CAD replacement will include replacement of the following systems: CAD, mapping, and the existing Law Enforcement Records Management and Field Reporting systems. In addition, replacement of the following systems will be considered for inclusion in the CAD replacement RFP: Fire Station Alerting, ProQA, False Alarm Reduction Section, Paging, and Fire House records management.

Coordination with participating department/agencies and regional partners will continue throughout the project.

FISCAL NOTE

Funding in FY09 includes Urban Area Security Initiative (UASI) grant funding of \$2.055 million and Fire Act grant funding of \$988,000. Funding in FY11 includes UASI funding of \$300,000.

Estimated costs for the elements to be funded in the current phase of the project are: CAD replacement \$23.340 million; station altering system \$3.489 million; planning for radio infrastructure replacement \$1.701 million.