

MEMORANDUM

September 30, 2010

TO: Public Safety Committee and Management and Fiscal Policy Committee

FROM: Dr. Costis Toregas, Council IT Adviser
Linda McMillan, Senior Legislative Analyst *Linda*

SUBJECT: **Briefing/Discussion:** Amendment to the FY11-16 Capital Improvements Program and Supplemental Appropriation to the FY11 Capital Budget
Montgomery County Government
Department of Technology Services
Public Safety System Modernization
\$21,616,000 (Source of Funds: Short-Term Financing)

On September 29, 2010 the County Executive forwarded a request to the Council asking for approval of an amendment to the Public Safety System Modernization (PSSM) CIP project and a supplemental appropriation of \$21.6 million. The purpose of the supplemental appropriation and amendment is to accelerate the purchase of new replacement radios. In addition, Sprint/Nextel, which is responsible for covering the costs associated with re-banding within the 800 MHz frequencies, has offered to pay the County \$3.3 million if the County will move forward with purchasing new radios rather than proceeding with the current plan that requires Sprint/Nextel to loan radios to the County. Under the Executive's new proposal, the County would purchase Motorola APX7000 model radios which comply with P-25 standards and can be used both for re-banding within 800 MHz and when the County transitions to a 700 MHz radio system. **The response deadline to Sprint/Nextel as to whether the County will accept this partial-payment in lieu of re-banding is November 5, 2010.**

Because of this short timeline, Council staff has asked Executive staff to provide the joint PS and MFP Committee with an overview briefing of the proposal at this session. This supplemental is scheduled for Introduction at the October 5th Council session. As this supplemental and amendment has not yet been introduced, **this is not a worksession**, but rather an opportunity for the joint Committee to understand the basics of the proposal and ask questions

for follow-up. Also, because of this short-time frame, this memo does not include Council staff analysis or recommendations.

Summary of Change to Expenditure Schedule

	TOTAL	Through FY10	6 Years	FY11	FY12	FY13	FY14	FY15	FY16
APP	54863	3043	51820	2434	14124	19344	9871	6047	0
REC	57906	3043	54863	24050	12670	13240	4903	0	0
DIFF	3043	0	3043	21616	(1454)	(6104)	(4968)	(6047)	0

The cost of the overall Public Safety System Modernization is proposed to increase by \$3.043 million. The PSSM project is not just a radio replacement project but as currently approved also includes funds for (1) phased upgrades and modernization of the Computer Aided Dispatch (CAD) System, (2) replacement of portable and mobile radios for all public safety first responder agencies, and (3) upgrades to the station alerting system. PSSM also includes \$1.7 million for planning and design for a new radio infrastructure (but not the estimated \$50 million that would be needed to fund a new radio infrastructure.) The Approved PDF specifies that not more than \$1.384 million may be spent in FY11 for P-25 compliant radios.

Summary of Change to Funding Schedule (all sources)

	TOTAL	Through FY10	6 Years	FY11	FY12	FY13	FY14	FY15	FY16
APP:									
FED	3343	3043	300	300	0	0	0	0	0
GO	3840	0	3840	200	800	1420	1420	0	0
ST	47680	0	47680	1934	13324	17924	8451	6047	0
REC:									
FED	3343	3043	300	300	0	0	0	0	0
GO	3840	0	3840	200	800	800	1420	0	0
ST	50723	0	50723	23550	11870	11820	3483	0	0

ST=Short-Term Financing

Summary of Change to Short-Term Financing Only

	TOTAL	Through FY10	6 Years	FY11	FY12	FY13	FY14	FY15	FY16
APP	47680	0	47680	1934	13324	17924	8451	6047	0
REC	50723	0	50723	23550	11870	11820	3483	0	0
DIFF	3043	0	3043	21616	(1454)	(6104)	(4968)	(6047)	0

The Executive notes that the \$3.3 million provided by Sprint/Nextel will be used to offset the cost of accelerating the Short-Term Financing Schedule which will add debt service to FY12 and FY13.

Suggested Questions to be Addressed at a Future Session

The following are questions the joint Committee may want to have answered in the next two weeks in order for the joint Committee and Council to have the information needed to make a decision on this request.

1. This project was just approved in May after many worksessions and agreement on how to move forward with the modernization of the public safety communications system. When did Sprint/Nextel and the Plan Administrator first make this proposal?
2. In May, it was estimated that the cost over the six years would be \$54.8 million. If \$3.3 million are received from Sprint/Nextel, why doesn't it reduce the cost to the County rather than increase it?
3. The region's radio systems, frequencies they use, and the timing for when interoperability becomes feasible should be made part of the decision package; the technologies and financial commitments of Fairfax and Prince George's Counties and the District of Columbia as a starter remain anecdotal. The real facts should be produced and verified; else Montgomery County may have to pay additional dollars for interoperability because of misunderstandings, etc. Ultimately Montgomery County should not commit major funds without a written regional compact to be signed by elected bodies committing to fund the necessary infrastructure and radios in a way that produces interoperability at a time certain.
4. The Sprint/Nextel \$3.3 million is what they feel is THEIR cost. Wasn't the agreement that they should cover OUR cost of re-banding? If this is not the full amount, when does that ultimate payment get made, and at what dollar level?
5. What is the radio inventory that is impacted by this proposed acceleration? Does it include all the radios needed by the Park Police, Sheriff, Homeland Security, etc.?
6. Does acceptance of this proposal impact any other elements of the total project such as planning and design for the CAD? (Staff understands that there may be some other issues impacting the schedule for CAD planning as well.)
7. Has RCC given a report as to technologies other than the Motorola APX7000 model radios and how they may be as or more responsive to the Strategic Plan requirements? (For example the frequency-agile radio offered by Montgomery-based Thales and sold to the military.)
8. What is the justification for not soliciting competitive bids for the required radios?

9. What is the fiscal impact of the recommended strategy on the cost of infrastructure deployment? The assumptions made for antennas, repeaters etc in the Approved PDF may change, and the magnitude of the change is not provided.
10. How do the current cost for the issuance of short-term financing and the associated debt service compare to the new proposal? Are there any changes in the terms of the short-term financing (such as length of financing or interest rate)? If the \$3.3 million is accepted by the County, will it be held in a restricted account so that it must only be used for the debt-service on these radios?
11. The proposed PDF states, “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.” What are the specific savings and will they result in an actual budget reduction or cost avoidance? Would not these costs have been covered by Sprint/Nextel?

Attachments: Supplemental Appropriation and CIP Amendment Request © 1-7
Approved FY11-16 PDF – Public Safety System Modernization © 8-9



OFFICE OF THE COUNTY EXECUTIVE
ROCKVILLE, MARYLAND 20850

Isiah Leggett
County Executive

MEMORANDUM

September 29, 2010

TO: Nancy Floreen, President, County Council

FROM: Isiah Leggett, County Executive *Isiah Leggett*

SUBJECT: Amendment to the FY11-16 Capital Improvements Program and Supplemental Appropriation #5-S11-CMCG-1 to the FY11 Capital Budget
Montgomery County Government
Department of Technology Services
Public Safety System Modernization (No. 340901), \$21,616,000

RECEIVED
MONTGOMERY COUNTY
COUNCIL
2010 SEP 29 PM 3:30

I am recommending an amendment to the FY11-16 Capital Improvements Program and supplemental appropriation to the FY11 Capital Budget in the amount of \$21,616,000 for Public Safety System Modernization (No. 340901). Appropriation for this project will accelerate the purchase of new radios to 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. This supplemental appropriation (\$21.616M) and increased funding (\$3.043 M) 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. The PILR response deadline is November 5, 2010.

The FCC has set timelines for moving all Public Safety radio operations to the alternative frequencies identified and licensed in the current 800 MHz band. This "re-banding", to ensure that there is no frequency overlap between commercial and Public Safety broadcasts, must be complete by the end of 2011. Sprint/Nextel, through its contracted Transition Administrator, and working with Motorola, its technical partner, created a plan which proposed "loaner" radios so that Montgomery County could re-program existing radios for use in the alternative frequencies. Further evaluation revealed that the loaner program presents significant operational challenges. The program would require the installation of loaner mobile radios in vehicles and subsequent re-installation of the original re-programmed radios after the frequency switch was made. Further, a third replacement would occur when the County acquired the new radios approved in the CIP.

As an alternative, the Transition Administrator and Sprint/Nextel offered the County a PILR option which would require accelerating the purchase of new public safety radios planned to be completed over the next four years, to FY11 and provide \$3.3M toward the County's radio replacement plan. The amount offered was derived from an analysis of the costs that the loaner program was to cost Sprint/Nextel.

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Nancy Floreen, President, County Council
September 29, 2010
Page 2

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 an additional appropriation is required for this project, this is offset by the additional PILR funding of \$3.3 million noted above as well as a reduction in future operating costs of an estimated minimum of \$3 million in maintenance contracts and County labor costs to complete the original "loaner" program for total savings of over \$6.3 million.

This request supports a significant upgrade in the type of public safety radio to be purchased from the previously planned Model 5000 to Motorola's APX7000 model. The APX7000 models will have a longer useful life than the Model 5000, provide multi-band interoperability, comply with P-25 standards and offer up-to-date "next generation" options. It should also be noted that acquisition of the Model 5000 radio would have required replacement of these radios within 3-4 years at a cost of another approximately \$24 million.

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. In order to minimize the fiscal impact of accelerating the debt-financed radio purchases, I recommend that the PILR be used to offset increased debt service costs in FY12 and FY13.

I recommend that the County Council approve this supplemental appropriation and amendment to the FY11-16 Capital Improvements Program in the amount of \$21,616,000 and specify the source of funds as Short-Term Financing.

I appreciate your prompt consideration of this action.

IL: jdc

Attachment: Amendment to the FY11-16 Capital Improvements Program and
Supplemental Appropriation #5-S11-CMCG-1

c: Kathleen Boucher, Assistant Chief Administrative Office, Offices of the County Executive
Steven Emanuel, Director, Department of Technology Services
Joseph Beach, Director, Office of Management and Budget
Jacqueline Carter, CIP Coordinator, Office of Management and Budget
John Cuff, Management and Budget Specialist, Office of Management and Budget
Jennifer Barrett, Director, Department of Finance

2

Resolution No: _____
Introduced: _____
Adopted: _____

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-1 to the FY11 Capital Budget
Montgomery County Government
Department of Technology Services
Public Safety System Modernization (No. 340901), \$21,616,000

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 increases:

<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
TOTAL			\$21,616,000	

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 over the next four years, to FY11 and provide \$3.3M 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 increased 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 an additional appropriation is required for this project, this is offset by the additional PILR funding of \$3.3 million noted above as well as a reduction in future operating costs of an estimated minimum of \$3 million in maintenance contracts and County labor costs to complete the original "loaner" program for total savings of over \$6.3 million.
6. This request supports a significant upgrade in the type of public safety radio to be purchased from the previously planned Model 5000 to Motorola's APX7000 model. The APX7000 models will have a longer useful life than the Model 5000, provide multi-band interoperability, comply with P-25 standards and offer up-to-date "next generation" options. It should also be noted that acquisition of the Model 5000 radio would have required replacement of these radios within 3-4 years at a cost of another approximately \$24 million.
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 that the source of funds will be Short-Term Financing.
9. Notice of public hearing was given and a public hearing was held.

Action

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

1. 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	\$21,616,000	Short-Term Financing
TOTAL			\$21,616,000	

Amendment to the FY11-16 Capital Improvements Program and Supplemental Appropriation
#5-S11-CMCG-1
Page Three

This is a correct copy of Council action.

Linda M. Lauer, Clerk of the Council

Public Safety System Modernization -- No. 340901

Category
Subcategory
Administering Agency
Planning Area

General Government
County Offices and Other Improvements
County Executive
Countywide

Date Last Modified
Required Adequate Public Facility
Relocation Impact
Status

September 28, 2010
No
None.
On-going

EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru FY09	Est. FY10	Total 6 Years	FY11	FY12	FY13	FY14	FY15	FY16	Beyond 6 Years
Planning, Design, and Supervision	3,266	0	0	3,266	925	945	895	501	0	0	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	3,264	0	0	3,264	125	725	1,345	1,069	0	0	0
Other	51,376	2,947	96	48,333	23,000	11,000	11,000	3,333	0	0	0
Total	57,906	2,947	96	54,863	24,050	12,670	13,240	4,903	0	0	0

FUNDING SCHEDULE (\$000)

Federal Aid	3,343	2,947	96	300	300	0	0	0	0	0	0
G.O. Bonds	3,840	0	0	3,840	200	800	1,420	1,420	0	0	0
Short-Term Financing	50,723	0	0	50,723	23,550	11,870	11,820	3,483	0	0	0
Total	57,906	2,947	96	54,863	24,050	12,670	13,240	4,903	0	0	0

OPERATING BUDGET IMPACT (\$000)

Maintenance				2,408	48	0	680	500	680	500
Net Impact				2,408	48	0	680	500	680	500

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

Increase is due to upgrading from the type of Public Safety radios to be purchased from the previously planned Model 5000 to Motorola's APX 7000 Model. The APX7000 models will have longer useful lives than the Model 5000, provide multi-band interoperability, comply with P-25 standards and offer up-to-date "next generation" options. The implementation schedule for the purchase of new public safety radios planned to be completed over FY11-14 has been accelerated to FY11 in order to take advantage of a "Partial Payment in Lieu of Rebanding" proposal from Sprint/Nextel.

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	COORDINATION	MAP
Date First Appropriation FY09 (\$000)	Public Safety Steering Group	
First Cost Estimate Current Scope FY11 54,863	Department of Technology Services	
Last FY's Cost Estimate 54,863	Department of Police	
Appropriation Request FY11 2,434	Montgomery County Fire and Rescue Service	
Appropriation Request Est. FY12 12,670	Sheriff's Office	
Supplemental Appropriation Request 21,616	Department of Correction and Rehabilitation	
Transfer 0	Office of Emergency Management and Homeland Security	
Cumulative Appropriation 3,043	Department of Transportation	
Expenditures / Encumbrances 2,947	Department of Liquor Control	
Unencumbered Balance 96	Montgomery County Public Schools (MCPS)	
Partial Closeout Thru FY08 0	Maryland-National Park and Planning Commission (M-NCPPC) Park Police	
New Partial Closeout FY09 0	Washington Metropolitan Area Transit Authority (WMATA)	
Total Partial Closeout 0		

6

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 funds appropriated for this project must be used as follows: not more than:

- " \$300,000 for planning for public safety radio infrastructure replacement
- " \$550,000 for planning for CAD replacement
- " \$23,000 million for the purchase of P-25 compliant radios
- " \$75,000 for planning and \$125,000 for construction for station alerting

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

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

Funds for P-25 compliant radios in this project include funds to purchase a total of 203 radios to be used by the Park Police and 150 radios to be used by other M-NCPPC staff on a schedule agreed to by the County and M-NCPPC. Before the County may issue radios to Park Police or M-NCPPC staff, the County and M-NCPPC must sign a Memorandum of Understanding regarding the ownership, management, operation, and maintenance of the radios.

OTHER:

The RFP for the CAD replacement will include replacement of the following systems: CAD, mapping, and the existing Law Enforcement Records Management System (RMS), 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 (FARS), Paging, and Fire House records management.

Coordination with participating departments/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 Urban Area Security Initiative (UASI) grant funding of \$300,000.

Estimated costs for the elements to be funded in the current phase of the project are: CAD replacement \$23.340M; purchase of interoperable radios \$29.376M; Station Alerting system \$3.489M; planning for radio infrastructure replacement \$1.701M.

Public Safety System Modernization -- No. 340901

Category
Subcategory
Administering Agency
Planning Area

General Government
County Offices and Other Improvements
County Executive
Countywide

Date Last Modified
Required Adequate Public Facility
Relocation Impact
Status

May 25, 2010
No
None
On-going

EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru FY09	Est. FY10	Total 6 Years	FY11	FY12	FY13	FY14	FY15	FY16	Beyond 6 Years
Planning, Design, and Supervision	3,266	0	0	3,266	925	945	895	501	0	0	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	3,264	0	0	3,264	125	725	1,345	1,069	0	0	0
Other	48,333	2,947	96	45,290	1,384	12,454	17,104	8,301	6,047	0	0
Total	54,863	2,947	96	51,820	2,434	14,124	19,344	9,871	6,047	0	0

FUNDING SCHEDULE (\$000)

Federal Aid	3,343	2,947	96	300	300	0	0	0	0	0	0
G.O. Bonds	3,840	0	0	3,840	200	800	1,420	1,420	0	0	0
Short-Term Financing	47,680	0	0	47,680	1,934	13,324	17,924	8,451	6,047	0	0
Total	54,863	2,947	96	51,820	2,434	14,124	19,344	9,871	6,047	0	0

OPERATING BUDGET IMPACT (\$000)

Maintenance				2,408	48	0	680	500	680	500
Net Impact				2,408	48	0	680	500	680	500

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

Increase due to inclusion of additional upgrades and modernization of computer aided dispatch (CAD), replacement of mobile and portable radios, planning for replacement of voice radio infrastructure, addition of Fire Station Alerting project, and the addition of expenditures and funding for M-NCPPC radios.

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.

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 (SAPPA) System for Fire/Rescue Stations, Rev 1, 2006. This project allows for the continuous and

APPROPRIATION AND EXPENDITURE DATA	COORDINATION	MAP												
<table border="1"> <tr> <td>Date First Appropriation</td> <td>FY09</td> <td>(\$000)</td> </tr> <tr> <td>First Cost Estimate</td> <td></td> <td></td> </tr> <tr> <td>Current Scope</td> <td>FY11</td> <td>54,863</td> </tr> <tr> <td>Last FY's Cost Estimate</td> <td></td> <td>6,883</td> </tr> </table>	Date First Appropriation	FY09	(\$000)	First Cost Estimate			Current Scope	FY11	54,863	Last FY's Cost Estimate		6,883	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)	
Date First Appropriation	FY09	(\$000)												
First Cost Estimate														
Current Scope	FY11	54,863												
Last FY's Cost Estimate		6,883												
<table border="1"> <tr> <td>Appropriation Request</td> <td>FY11</td> <td>2,434</td> </tr> <tr> <td>Appropriation Request Est.</td> <td>FY12</td> <td>14,124</td> </tr> <tr> <td>Supplemental Appropriation Request</td> <td></td> <td>0</td> </tr> <tr> <td>Transfer</td> <td></td> <td>0</td> </tr> </table>	Appropriation Request	FY11	2,434	Appropriation Request Est.	FY12	14,124	Supplemental Appropriation Request		0	Transfer		0		
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8

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

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.

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

OTHER

CONDITIONS:

FY11 funds appropriated for this project must be used as follows: not more than:

- * \$300,000 for planning for public safety radio infrastructure replacement
- * \$550,000 for planning for CAD replacement
- * \$1.384 million for the purchase of P-25 compliant radios
- * \$75,000 for planning and \$125,000 for construction for station alerting

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

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

Funds for P-25 compliant radios in this project include funds to purchase a total of 203 radios to be used by the Park Police and 150 radios to be used by other M-NCPPC staff on a schedule agreed to by the County and M-NCPPC. Before the County may issue radios to Park Police or M-NCPPC staff, the County and M-NCPPC must sign a Memorandum of Understanding regarding the ownership, management, operation, and maintenance of the radios.

OTHER:

The RFP for the CAD replacement will include replacement of the following systems: CAD, mapping, and the existing Law Enforcement Records Management System (RMS), 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 (FARS), Paging, and Fire House records management.

Coordination with participating departments/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 Urban Area Security Initiative (UASI) grant funding of \$300,000.

Estimated costs for the elements to be funded in the current phase of the project are: CAD replacement \$23.34M; purchase of interoperable radios \$26.3M; Station Alerting system \$3.489M; planning for radio infrastructure replacement \$1.7M.