GO Committee #5A April 19, 2016

## **Worksession**

## **MEMORANDUM**

April 15, 2016

TO: Government Operations and Fiscal Policy Committee

FROM: Dr. Costis Toregas, Council IT Adviser

SUBJECT: Capital Improvements Program Adjustments- ultraMontgomery (P341700)

The following are expected to attend:

Sonny Segal, Chief Information Officer, Department of Technology Services (DTS) Mitsi Herrera, ultraMontgomery Program Director Phil Roter, Cable and Broadband Communications Administrator, DTS Dennis Hetman, Office of Management and Budget (OMB)

## Staff Recommendation:

- 1. Approve the Executive's new ultraMontgomery request of \$1,124,000 within the FY17-22 CIP; and
- 2. Request a summer worksession to review a detailed work plan for each of the four projects within the FY17 timeframe of the program.

## Background

On March 15, 2016, the Executive provided a budget amendment to the FY17-22 Capital Improvements Program under which a new ultraMontgomery program is established (©1). This program, according to the transmittal memo, will enable the Executive's economic development program to grow in the emerging hi-tech area of broadband connectivity:

"...Internet connectivity is just as important to economic development as an effective transportation network. I am recommending funding for a public-private partnership ultraMontgomery project to 1) construct an East County Fiber Highway to interconnect FiberNet in White Oak with Maryland's Intercounty Broadband Network (ICBN) and the Johns Hopkins Applied Physics lab (APL); 2) design and construct FiberNet linkages between Bethesda, Silver Spring, and the University of Maryland College park campus in conjunction with Purple Line construction; 3) create a 100 gigabit Federal Exchange network beginning with interconnection of the County's FiberNet communications network with federal agencies, including the National Institute of Standards and Technology (NIST), and the National Cybersecurity Center of Excellence (NCCoE); and 4)interconnect FiberNet to high capacity dark fiber networks that reach data centers in Ashburn, Virginia and multi – tenant data centers within Montgomery County. In the January CIP, approximately \$500,000 annually had been included in the FiberNet project to support ultraMontgomery activities in FY 17-22. Those activities have now been consolidated into a separate ultraMontgomery project...".

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## **Staff Discussion**

It should be noted that this separation between FiberNet and ultraMontgomery is a move that was strongly endorsed by the Principals of the Interagency Technology Policy and Coordination Committee (ITPCC) in their most recent meeting on February 2, 2016.

ultraMontgomery is already an active program within FiberNet, and the following elements are shown in the CIP submission to be under way or planned:

uM project	ALREADY FUNDED	CIP REQUEST
NIST/NCCoE interconnection	Will be completed in 2016	
Design and engineering for the East County Fiber Highway	Will be completed in 2016	Construction to be completed within 2018
Ashburn dark fiber route and data center interconnections		To be completed within 2017 through coordination with private sector construction
Design and engineering along or near the Purple Line		Expected to begin in 2017 (dependent on Purple Line and third party construction schedules)

To establish a more detailed understanding of the ultraMontgomery program, Staff asked DTS the following questions and received the following answers:

1. Please break out the ultraMontgomery allocations in the Cable plan for 2017; provide the most current version of an operating plan for ultraMontgomery for FY17, identifying projects to be undertaken and expected costs and outcomes.

Cable Plan includes \$680,000 of restricted PEG/I-Net Capital for the ultraMontgomery CIP. An additional \$644,116 of unrestricted funding is provided as part of the Transfer to the General Fund: \$444,116 will be added to the ultraMontgomery CIP to permit use of the CIP to support economic development, and \$200,000 will be added to the DTS-CIO budget to support ultraMontgomery operating programs...

2. Please provide a Table showing total ultraMontgomery investments in the 2017 budget across CIP and OB elements.

FY17 ultraMontgomery CIP		_
Ashburn Fiber Route Connections (Bethesda/Silver Spring)	\$	25,000
East County Fiber Highway (White Oak to ICBN/JHU APL)	\$	632,116
Great Seneca/Purple Line (GSSC-LSC, UMD, USG, economic	\$	467,000
development)		
CIP TOTAL	\$ 1	,124,116
FY17 DTS-CIO Operating Budget		
Grant Writing	\$	54,000
Digital Inclusion (digital inclusion training for older adults)	\$	121,000
Research, Reports, Marketing & Communications	\$	25,000
OPERATING SUBTOTAL	\$	200,000
FY17 ultraMontgomery Capital and Operating Budget	\$1	,324,116

The CIP commitment of \$1,124,000 is expected to drop to \$680,000 for each of the next 5 years after FY17. The total CIP investment is therefore foreseen to be over \$4.5 million within the FY17-22 CIP time horizon. There are no work plans or explicit strategies identified beyond the descriptive general information in the PDF submitted for this important program, and much depends on private partnerships that the Executive is hoping to leverage. For a program of this magnitude, a deeper dialog is needed, and should be carried out in a way that does not impede progress on this important economic development effort already under way.

It may be helpful to review information provided by DTS regarding ultraMontgomery under the DTS budget review; here is a description of the contributions the DTS budget is making towards ultraMontgomery:

1. UltraMontgomery is a new CIP project; please explain why a \$200,000 item for Planning and Outreach is within the CIO's Operating Budget, and describe the intended uses of this allocation.

The ultraMontgomery program anticipates supporting new capital and operating program initiatives. Therefore, the County Executive has added funding for a new CIP and within the DTS CIO's operating budget. The \$200,000 FY17 operating budget will support digital inclusion, grant writing, and promotion of Montgomery County as a SMART, connected, gigabit community.

- Digital inclusion will focus on deploying digital literacy training for older adults at a Montgomery County Public Library (MCPL), the Holiday Park Senior Center, and a Housing Opportunities Commission (HOC) location, as well attracting additional partners to support these efforts. Additional multi-departmental and multi-agency initiatives will seek to expand participation in the Comcast Internet Essentials program. Additional opportunities to expand public availability of mobile broadband services through a centralized County contract will also be explored.
- Part-time grant writing support will be coordinated with the Innovation Program, MCPL, the HOC Academy, the Dept. of Recreation, Montgomery College, and MCPS, as appropriate.

• Planning and hosting of gigabit-related speaker series, hack-a-thons, and charrettes will be coordinated with NIST, NCCOE, appropriate federal agencies, the Innovation Program, the Montgomery County Economic Development Corporation, Tech Council of Maryland, the County Executive's Business Advisory Group, and the Urban Advisory Committees of Wheaton, Silver Spring, and Bethesda.

For the Committee to support this effort and also ensure that the investments are properly targeted and deliver strong results, a more textured work plan would be helpful to review and monitor. Such a work plan review can be the subject of a summer FY17 GO worksession, where adjustments and amendments to the ultraMongomery objectives could be identified and proper re-orientation of the effort suggested as appropriate.

This work plan should include, for <u>each</u> of the four projects identified in the CIP amendment, the following information:

- Desired outcomes and beneficiaries
- > Full resources being leveraged (public and private)
- Partnership strategies needed for success
- Positive and negative impacts on other broadband efforts (including FiberNet)
- > Budget and time allocations and staff needed to execute.

In addition to the work plan review, a summer worksession could also focus on the ability of ultraMontgomery to provide practical connectivity outcomes for students and segments of the County population currently not served by broadband carriers. This connectivity goal does not seem to be included in the current request from the Executive; DTS does, of course, have additional programs under which such a mandate can be fulfilled, but it will be useful to know whether ultraMontgomery will also be actively engaged in the delivery of this important program.

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## ultraMontgomery (P341700)

Category	ment vices vices (AAGE	05)			Requi	ation Impact	te Public Fa	cility	11/17/14 No None Preliminan	/ Design St	age	
	[	Total	Thru FY15	Est FY16	Total 6 Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs
				EXPENDIT	URE SCHE	DULE (\$000	)s)					
Planning, Design and Super	rvision	475	0	0	475	25	130	230	30	30	30	D
_and		0	0	0	D	0	0	0	0	0	0	Ø
Site Improvements and Utili	ties	0	0	0	D	.0	0	0	0	0	0	D
Construction		4,049	0	0	4,049	1,099	550	450	650	650	650	0
Other		0	0	0	0	0	0	0	0	O	D	0
	Total	4,524	0	0	4,524	1,124	680	680	680	680	680	0
				FUNDIN	G SCHEDU	LE (\$000s)						
Cable TV	*	4,524	0	0	4,524	1,124	680	680	680	680	680	0
	Total	4,524	0	0	4,524	1,124	680	680	680	680	680	0

#### APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 17	680
Appropriation Request Est	FY 18	680
Supplemental Appropriation Requ	est	0
Transfer		0
Cumulative Appropriation		0
Expenditure / Encumbrances		0
Unencumbered Balance		0

Date First Appropriation	FY 16	
First Cost Estimate		
Current Scope	FY 17	4,524
Last FY's Cost Estimate		0

#### `escription

.ie ultraMontgomery CIP provides for capital funding to support Montgomery County's ultraMontgomery economic development program. Funding will support planning, engineering, design, and construction of: 1.) construction of an East County Fiber Highway to interconnect FiberNet in White Oak to Maryland's Inter-County Broadband Network (ICBN) and the Johns Hopkins University Applied Physics Lab (APL); 2.) creation of a 100 gigabit Federal Exchange network, beginning with interconnection of the County's FiberNet communications network to the federal agencies, National Institute of Technology Standards (NIST) and the National Cybersecurity Center of Excellence (NCCoE); 3.) design and engineering between Bethesda, Silver Spring and the University of Maryland College Park under or near the Purple Line transit route; and 4.) interconnection of FiberNet to high capacity, low-latency, dark fiber networks that reach 35 data centers in Ashburn, VA and multi-tenant data centers within Montgomery County.

#### **Estimated Schedule**

The NIST/NCCoE interconnections will be completed in FY16. Design and engineering for the East County Fiber Highway will be completed in FY16, with construction expected to be completed within FY18. Ashburn dark fiber route and data center interconnections will be coordinated with private sector construction, but are anticipated to be completed within FY17. Design and engineering along or near the Purple Line is epxected begin in FY17, but is dependent on the Purple Line and third-party construction schedules.

#### Justification

ultraMontgomery was officially launched by the County Executive in December 2014 as one of the County Executive's Six Economic Priorities. ultraMontgomery is designed to expand the STEM (science, technology, engineering, mathematics) and STEAM (STEM plus art and design) jobs and businesses that depend on high-speed, secure, and reliable broadband services and networks. The ultraMontgomery program focuses on four areas: government and education; economic and business development; connected communities; and public awareness and promotion. Federal, state and local governments, as well as community colleges and higher education entities, are both major employers within Montgomery County and increasing important partners to grow the cybersecurity, financial services, biotech and scientific innovation, Internet of Things, media, and next-generation Internet services and gigabit economy private sector businesses within the County. In addition, the County must ensure that all of our residents can participate in the Internet economy, and that the business community is aware of the breadth, diversity and robust assets and opportunities that exist within the County.

#### Other

FY16 ultraMontgomery funding was contained in the FiberNet CIP. FY16 and FY17 funding is provided from the Cable Fund PEG/I-Net Capital Grant and will be used consistent with the restricted government and educational purposes of that Grant.

#### scal Note

FiberNet (p509651), Purpleline, Department of Transportation, DTS, Montgomery County Public Schools, M-NCPPC, MC, HOC, PSCS, Information Technology Policy Coordination Committee (ITPCC), ITPCC CIO Subcommittee, and Interagency Technology Advisory Group (ITAG)

GO Committee #5B April 19, 2016

## **Worksession**

## MEMORANDUM

## April 15, 2016

TO: Government Operations and Fiscal Policy Committee

- FROM: Dr. Costis Toregas, Council IT Adviser
- SUBJECT: Capital Improvements Program Adjustments- Integrated Justice Information System (P340200)

The following are expected to attend:

Sonny Segal, Chief Information Officer, Department of Technology Services (DTS) Dieter Klinger, Chief Technology Officer, DTS Lisa Henderson, IJIS Program Manager, DTS Dennis Hetman, Office of Management and Budget (OMB)

## Staff Recommendation:

- 1. Approve the Executive's CIP amendment for IJIS of \$156,000.
- 2. Consider a summer review worksession jointly with the Public Safety committee to review overall IJIS status and implementation issues.

## **Background**

On March 15, 2016, the Executive provided a budget amendment to the FY17-22 Capital Improvement Program, under which additional funds are requested for the Integrated Justice Information System (IJIS) ( $\mathbb{O}$ 1-2). This reason for this request, according to the transmittal memo, is:

"...Additional funds have been included to address system security issues and to implement an accurate and efficient expungement process. When the courts issue an order to expunge criminal records, it is imperative that these records be expunged throughout the criminal justice process from arrest to incarceration to judicial proceedings. This CIP amendment will eliminate what is now a time consuming, manual process...."

## **Staff Discussion**

The Integrated Justice Information System (IJIS) represents a long-term commitment of the County to modernize all systems that undergird the arrest-incarceration-judicial proceedings cycle across several agencies. For the Committee to understand the scope of the IJIS effort, ©3 provides a snapshot of the major subsystem elements by **Solution Name**, their **Description**, **Using Agencies**, and **Date** it first went live in the IJIS implementation timeframe. Some of these implementation dates are back in 2004 and 2006, showing the long-term commitment to the project.

To date, \$15.7 million has been appropriated to the IJIS effort, and an unencumbered balance of \$1.5 million exists to finalize important work still under way. This current CIP amendment request represents a task not currently under the scope of IJIS. The reason that the task of automating record expungements was not already within the scope of the IJIS program is not clear, but it is a vital one that should be completed quickly.

To provide more texture to this CIP amendment request, two questions were raised; the questions and DTS answers are provided below.

# 1. This project has not been active for several years in budget deliberations; what changed this year?

Funding for the IJIS CIP did not change over the last few years and the project had no expenditures programmed in FY17-22. Discussions on how to implement CRIMS Phase II (jail management system) have been underway but were incomplete at the time the CE transmitted the CE's Recommended FY17-22 CIP for Council's review. The March amendment allows the CRIMS Phase II project to proceed using the remaining funds in the project and adds \$156,000 to complete two critical IJIS projects (CRIMS I Java Fix and IJIS Expungement Process).

# 2. Explain the difference between the FY17 Appropriation request for \$100,000 and the Expenditure and Funding schedule request for \$156,000. How do the two sums relate to the unencumbered balance of \$1,615,000?

The PDF provided in the March  $15^{th}$  CIP Amendments identified an incorrect unencumbered amount (a corrected PDF is attached). The \$56,000 represents a transfer of funds from the remaining balance of the completed voicemail upgrade project. The \$100,000 represents the CE's recommendation to increase the appropriation for the IJIS project for a total increase of \$156,000. The transfer of \$56,000 is included in the unencumbered balance of \$1,559,000.

In addition, information that was submitted during the FY16 DTS budget deliberations is provided here as practical reflection of IJIS progress:

Listed below are a summary of recent major IJIS accomplishments:

- Developed and implemented the Criminal Justice Case Management System (CJCMS) as the CJIS interim replacement to enable CJIS and mainframe retirements.
- Developed and implemented Court data feeds to CJCMS. Now all District and Circuit Court, criminal and non-criminal (i.e. traffic) are automatically loaded for user consumption.
- Developed and implemented the MCPD Go-to-Court application which alerts MCPD Officers of upcoming their court dates to eliminate missed court dates.

• Implementation of SAO eDiscovery solution to provide for electronic and automated processing of court discovery material between SAO and the public defenders and private defense attorneys.

The following are some key IJIS initiatives:

- Business Intelligence solution for the CJ agencies to include the capability for enhanced reporting, data analytics and predictive analysis. Anticipating funding from GOCCP grant to support initiative.
- Enhance the CJ expungement process of criminal records and develop a solution to simplify the tasks of expungements.

The Government Operations and Fiscal Policy and Public Safety Committees have been holding joint program review sessions to gauge rate of progress and help resolve barriers to effective implementation when issues have arisen. The Committee should assess whether such issues currently exist, and whether a joint worksession in the summer months might be considered timely.

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## Integrated Justice Information System (P340200)

Category Sub Category Administering Agency Planning Area	General Govern Technology Sen Technology Sen Countywide	Date Last Modified Required Adequate Public Facility Relocation Impact Status					cility	11/17/14 No None Ongoing				
		Total	Thru FY15	Est FY16	Total 6 Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs
		·····		EXPENDIT	URE SCHE	DULE (\$000	)s)					T
Planning, Design and Su	pervision	1,200	0	1,200	0	0	0	0	0	0	0	0
Land		0	0	0	0	0	0	0	0	0	0	0
Site Improvements and U	tilities	0	0	0	0	0	0	0	0	0	0	0
Construction		0	0	0	0	0	0	0	0	0	0	0
Other		14,623	14,154	313	156	156	0	Û	0	0	0	0
	Total	15,823	14,154	1,513	156	156	0,	0	· 0	0	0	0
				FUNDIN	G SCHEDU	LE (\$000s)						
Current Revenue: Generation	al	10,443	8,774	1,513	156	156	0	0	0	0	0	0
Federal Ald		5,380	5,380	0	0	0	0	0	0	0	0	0
	Total	15,823	14,154	1,513	156	156	0	0	0	0	0	0
			OPE	RATING BU	DGET IMP	ACT (\$000s	;)					
Program-Staff					0	0	0	0	0	0	0	
	Net Impact				0	0	0	0	0	0	0	

#### APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	<u>FY</u> 17	100		Date First Appropriati	on FY 02	
Appropriation Request Est.	FY 18	0		First Cost Estimate	<u> </u>	
Supplemental Appropriation Reque	st	0		Current Scope	FY 17	15,823
Transfer		0		Last FY's Cost Estimation	ate	15,667
Cumulative Appropriation		15,667	15,723			
Expenditure / Encumbrances		14,164	-			
Unencumbered Balance		1,559				

#### Description

The Integrated Justice Information System (IJIS) facilitates the exchange of data about criminals and criminal activity, including court case data, between Montgomery County agencies, the State of Maryland, and the Federal government. IJIS simplifies the steps for users to input and access data, such as warrant and criminal background checks, while maintaining proper security and automatically exchanging data between appropriate agencies and systems. IJIS is being designed, implemented, and maintained to provide timely and appropriate data to field personnel in a clear and effective manner. Field personnel will gain access to IJIS applications via secure logins and input or view data appropriate to their job function (e.g., a criminal background check on prisoners about to be released). IJIS is capable of routing data and/or warnings to the appropriate systems and personnel when certain events occur (e.g., if a person in the custody of the County is listed on a warrant from another jurisdiction). IJIS links different data systems that are required to exchange data (e.g., arrest data between the Police department, the State of Maryland, the Courts, the Department of Correction and Rehabilitation, and the Federal Bureau of Investigation). IJIS also links the public to appropriate data such as notification to victims when there is a custody change of a linked offender.

#### **Estimated Schedule**

Estimated completion date for project is FY17.

#### **Cost Change**

Cost change is due addition of funds to address security issues and to implement an efficient expungement process.

#### Justification

IJIS improves the delivery of public safety services to the estimated one million residents of Montgomery County and facilitates easier data transfers between Montgomery County and both the State and Federal public safety agencies. Criminal justice agencies in Montgomery County have embarked upon major business process changes by introducing the use of open and flexible information technology systems. Currently criminal justice agencies utilize a single system to hold criminal justice-related data known as the Criminal Justice Information System (CJIS). CJIS has reached the end of its useful life, especially with respect to changes to data structure and functionality. As new systems go on-line, data must still be exchanged between all the criminal justice agencies (e.g., outstanding arrest warrants, warnings about former prisoners if they are picked up in an arrest after their incarceration, domestic violence information, etc.). If this data is not exchanged properly, the lives of public safety personnel and the general public could be endangered. An interagency project team has developed a detailed design and business process analysis for an Integrated Justice Information System (IJIS) that will ensure that criminal justice agencies can accomplish their individual mission goals, while still exchanging data that is vital to the public's safety.

## Integrated Justice Information System (P340200)

#### **Fiscal Note**

In FY16, \$56,000 in Current Revenue was transferred from the Voice Mail System Replacement CIP (P340700).

#### Coordination

Department of Technology Services, Criminal Justice Coordinating Commission and member agencies, Office of Management and Budget, Office of Intergovernmental Relations, State of Maryland, United States Department of Justice, Public Safety Communications Systems project team

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	IJIS Program - Major Solution Implementations							
Solution	Description	Using Agencies	Date Implemented					
Juvenile Justice Information System	Records keeping solution for Juvenile criminal justice data	HHS	Jan-2004					
		MCPD						
		MCSO						
IJIS Arrest History Database	Electronic access to non-Montgomery County arrests	DOCR	Apr-2006					
	Automate record-keeping of Transport between DOCR and Sheriff's	DOCR						
IJIS Transport	Office	MCSO	Jul-2006					
	Electronic access to critical information at the key decision points							
UIS Inquiry	throughout the criminal justice system processes.	All agencies	Jan-2009					
······································	Highly flexible COTS case and workflow management system that							
	replaces numerous independent manually intensive processes							
	utilized to manage the thousands of cases processed by the SAO,							
SAO Case Management System	annually	SAO	Oct-2010					
		DOCR						
		MCPD						
		MCSO						
		Fed/State/Local law						
Arrest and Booking System (CRIMS)	Automated COTS arrest/booking system	enforcement	Jun-2011					
<b>Q</b> /, <b>Q</b> / .	CJIS Replacement System - Criminal Justice Records Management							
CJCMS	System	All agencies	Oct-2013					
Circuit Court Data Feed to CJCMS	Automated data population of CCT case data	ALL	Feb-2014					
		City of Gaithersburg						
	Automated notification and management dashboard of required	Police						
Law Enforcement Trial Appearance Notice	court appearance dates for police officers	MCPD	Sep-2014					
	COTS solution providing automated processing of SAO discovery							
	material related to cases for submission to the defense in							
eDiscoverv	timeframes that meet statutory requirements	SAO	Sep-2014					
		DOCR						
		SAO						
		MCPD						
Automated Traffic Citation/Case Feed	Automated feed of all district court traffic citation data to CJCMS	MCSO	Oct-2014					
	Interface to automate transfer of CAD and Traffic citation databases							
MCPD Body Cameras Feed	to Evidence.com	MCPD	Jun-2015					
mar a away contained took	Automated submission and processing of Juvenile Petitions between							
Juvenile Petitions	SAO and CCT	SAO	Dec-2015					

GO Committee #5C April 19, 2016

## **Worksession**

## **MEMORANDUM**

April 15, 2016

TO: Government Operations and Fiscal Policy Committee  $\sqrt{2}$ 

FROM: Dr. Costis Toregas, Council IT Adviser

SUBJECT: Capital Improvements Program Adjustments – FiberNet (P509651)

The following are expected to attend:

Sonny Segal, Chief Information Officer, Department of Technology Services (DTS) John Castner, FiberNet Project Manager, DTS Phil Roter, Cable and Broadband Communications Administrator, DTS Gary Thomas, ITPCC Staff Dennis Hetman, Office of Management and Budget (OMB)

## Staff Recommendation:

**Endorse** the Executive's recommendation to reduce the FiberNet CIP by \$500,000 for each of the subsequent two years, to establish a new ultraMontgomery program. There is a corresponding increase of \$500,000 for each of the subsequent two years in the new ultraMontgomery program, so there is no change to the overall CIP amount, nor to the Cable Plan program totals that fund these two programs.

## **Background**

On March 15, 2016, the Executive provided a budget amendment to the FY17-22 Capital Improvements Program, under which a new ultraMontgomery program is established (see item 5A on the Committee agenda). An amount of \$500,000 within the FiberNet program is requested to be transferred to this new ultraMontgomery program, and this transfer is shown in the CIP requested amendment to the FiberNet CIP (P509651) on  $\bigcirc$  1-2.

The Committee and full Council already approved the FiberNet CIP program at the Executive's recommended level of 4,193,000 in their meetings of March 3 and March 15, 2016, respectively. In these meetings, the detailed description of the FiberNet program provided in the packet's Background section (on  $\mathbb{C}3-5$ ) was reviewed and approved.

## **Staff Discussion**

To ensure that the FiberNet program would be held harmless in the requested transfer, staff asked DTS the following question:

The Committee has already approved the FiberNet CIP request; is the new request simply showing a \$500,000 transfer to ultraMontgomery? Are there tasks on the FiberNet side of the ledger that will not be done because of this shift?

The following response was received:

This reduction has no effect on planned FiberNet projects and expenditures. This amount was designated for ultraMontgomery in the original FiberNet CIP submission and is now moved to the dedicated ultraMontgomery CIP to provide greater transparency and accountability.

Based on this answer, the requested reduction appears to be an accounting technical adjustment with no practical impact on the FiberNet program, and therefore should be endorsed.

The Committee should note that the requested adjustment is \$500,000 for each of the two years of the recommended CIP, so a <u>total</u> of \$1,000,000 is being transferred from the FiberNet program to the new ultraMontgomery program in FY17 and FY18.

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## Fibernet (P509651)

rgory Category ∖dministering Agency Planning Area	General Government Technology Services jency Technology Services (AAGE05) Countywide					Date Last Modified Required Adequate Public Facility Relocation Impact Status				11/17/54 No None Ongoing		
		Total	Thru FY15	Est FY16	Total 6 Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs
				EXPENDIT	URE SCHE	DULE (\$000	)s)					
Planning, Design and Supe	arvision	7,244	3,046	0	4,198	731	724	719	705	614	705	0
Land		1,819	4	0	1,815	225	300	300	300	390	300	0
Site Improvements and Uti	lities	14,568	13,568	0	1,000	200	200	200	200	200	0	0
Construction		19,632	8,839	2,375	8,418	2,040	1,466	1,421	1,045	1,455	991	0
Other		32,740	24,210	1,723	6,807	497	1,200	1,200	1,500	910	1,500	0
	Total	76,003	49,667	4,098	22,238	3,693	3,890	3,840	3,750	3,569	3,496	0
				FUNDING	S SCHEDU	LE (\$000s)						
Cable TV		63,123	36,787	4,098	22,238	3,693	3,890	3,840	3,750	3,569	3,496	0
Contributions		1,624	1,624	0	0	٥	0	0	0	0	0	0
Current Revenue: General		256	256	0	0	0	0	0	0	0	0	0
G.O. Bonds		4,074	4,074	0	0	0	0	0	0	· 0	0	O
PAYGO		6,926	6,926	0	0	D	0	0	0	· · 0	. 0	0
	Total	76,003	49,667	4,098	22,238	3,693	3,890	3,840	3,750	3,569	3,496	0
			OPER	ATING BU	DGET IMP	ACT (\$000s	)					
Maintenance	•				0	0	0	0	0	0	0	
	Net Impact				0	0	0	0	0	0	0	

#### APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 17	3,693
Appropriation Request Est.	FY 18	3,890
Supplemental Appropriation Requ	est	0
Transfer		0
Cumulative Appropriation		53,765
Expenditure / Encumbrances		49,667
Unencumbered Balance		4,098

Date First Appropriation	FY 96	
First Cost Estimate		
Current Scope	FY 17	76,003
Last FY's Cost Estimate		61,332

#### Description

FiberNet CIP provides for the planning, design, and installation of a county wide electro-optical communication network with the capacity to support voice, public-safety, traffic management, data, Internet access, wireless networking (including public WiFi) and video transmissions among Montgomery County Government (MCG), Montgomery County Public Schools (MCPS), Montgomery College (MC), Maryland National Capital Park and Planning Commission (M-NCPPC), Housing Opportunities Commission (HOC) and Washington Suburban Sanitary Commission (WSSC) facilities. FiberNet is the communications backbone for the Public Safety Radio and Public Safety Mobile Data Systems (collectively, Public Safety Communications System (PSCS)), and future technology implementations (including 800 MHz IP public safety radio). FiberNet's outside physical plant has a practically unlimited useful life. Upgrades and replacements to electronic components in the core and at user sites will be required periodically throughout the service life. Each generation of FiberNet electronic components have an estimated useful life of at least 10 years. FiberNet I is a legacy network still used to support specific public safety and traffic communications. FiberNet II is being used to support all County communications services including 311, e-mail, Internet and local cable channel video. FiberNet III is in the pilot and planning phase. When implemented, FiberNet III equipment will allow faster, higher capacity, more reliable means of optical networking. Using optical technology, all three generations of FiberNet can be run on the same outside physical plant.

#### **Estimated Schedule**

At the end of FY15, FiberNet reached 476 Locations. Based on the current funding schedule, FiberNet is scheduled to reach 526 Locations by the end of FY16; 551 locations by the end of FY17; and 576 locations by the end of FY18. The Traffic Management network reaches over 210 traffic cameras and 850 traffic signals with plans to add 200 pedestrian safety beacons. By the end of FY18 - and including sites connected by private carriers and institutional partners - FiberNet is expected to have a total of more than 1,825 sites on the network serving a tremendous variety of facilities from pedestrian beacons, wine and liquor stores to major campus networks and large multi-story office buildings. The focus remains on the completion of adding MCPS elementary schools, performing hub-site upgrades, adding new 'tes and constructing inter-jurisdictional connections to enable cost-effective future technology partnerships such as supporting fiber to the

University of Maryland along the Purple Line and the Federal Exchange's 100G pilot.

## Fibernet (P509651)

Cost change is due to addition of FY21 and FY22 to this project, major hub relocations and upgrades, IP video distribution, registering and conitoring underground plant with Miss Utility, and completing new site constructions. Expenditure increase is funded by restricted-use Cable Fund PEG/I NET capital grant revenue that the county has a legal obligation to spend on appropriate uses.

#### Justification

FiberNet is a critical infrastructure asset providing communication services and applications to every agency in Montgomery County. As more services are offered electronically (e-applications, e-payment, e-document, e-storage, e-learning) it is critical that every County location has robust access to FiberNet, and that FiberNet be secure, reliable, and always-on.

#### **Fiscal Note**

There will be more restricted-use Cable Fund PEG/I NET capital grant funding available through the County's three cable franchise agreements because the County has demonstrated the continuing need for expansion and upgrade of the FiberNet network. Previously, funding for the FiberNet CIP was provided by the General Fund, Cable Fund cable franchise fees, and restricted-use Cable Fund PEG/I NET capital grants. Funding for future years of the FiberNet CIP will be from restricted-use Cable Fund PEG/I NET capital grants. FiberNet operations and maintenance (O&M) activities are a critical component of FiberNet's utility but are not funded by the FiberNet CIP. O&M expenses have been partially funded by a Comcast FiberNet operations grant. In the renewed Comcast franchise transmitted by the County Executive for Council approval, restricted-use grant funding available to support FiberNet O&M will be reduced and a greater portion of FiberNet O&M will be funded by Cable Fund franchise fee revenue. In FY16 funds were also used to support Government and Educational ultraMontgomery broadband initiatives.

#### Coordination

DTS, Department of Transportation, Advanced Transportation Management System Project, Montgomery County Public Schools, M-NCPPC, MC, HOC, WSSC, PSCS, Information Technology Policy Coordination Committee (ITPCC), ITPCC CIO Subcommittee, and Interagency Technology Advisory Group (ITAG).

GO Committee #4 March 3, 2016

## **Worksession**

## MEMORANDUM

March 1, 2016

TO: Government Operations and Fiscal Policy Committee

FROM: Dr. Costis Toregas, Council IT Adviser

SUBJECT: Capital Improvements Program – FiberNet P509651

The following are expected to attend:

Sonny Segal, Chief Information Officer, Department of Technology Services (DTS) John Castner, FiberNet Project Manager, DTS Phil Roter, Cable and Broadband Communications Administrator, DTS Gary Thomas, ITPCC Staff Dennis Hetman, Office of Management and Budget (OMB)

## **Staff Recommendation:**

- 1. Endorse the Executive's recommendation of \$4,193,000 for the FiberNet program and recommend its full funding to the Council with the following caveats:
  - a. The ultraMontgomery program is not included in this PDF and will be presented as a stand-alone program during subsequent budget submissions. This will preserve clarity among all stakeholders involved, and establish separate goals and required funding resources that can be tracked and evaluated.
  - b. The FiberNet budgeted activities for FY17 onward will be held harmless as the ultraMontgomery program is being established as a separate program with its own funding.
  - c. The Network Operating Center (NOC) will continue to be funded at the full level of \$910,000 as foreseen in the Preliminary 2017 Cable Plan favorably reviewed by the Committee on January 28, 2016.

#### **Background**

Approved by the Council in 1996, the FiberNet CIP provides for the planning, design, and installation of a Countywide electro-optical network infrastructure supporting voice, data, and video requirements for public safety, traffic management, Internet access, wireless networking, and network communication requirements among the participating agencies that include Montgomery County Government (MCG), Montgomery County Public Schools (MCPS), Montgomery College (MC), Maryland-National Capital Park and Planning Commission (M-NCPPC), Housing Opportunities Commission (HOC) and Washington Suburban Sanitary Commission (WSSC) facilities. FiberNet is the communications backbone for the Public Safety Radio and Public Safety Mobile Data Systems (collectively, Public Safety Communications System (PSCS)) and for future technology implementations. FiberNet's outside physical fiber plant has a useful life well over 20 years. Upgrades and replacements to electronic components in the core network and at user sites will be required periodically throughout the service life. FiberNet electronic components have an estimated useful life of at least 7-10 years. FiberNet I is a legacy network still used to support specific public safety. FiberNet II is being used to support all County communications services, including 311, e-mail, Internet, and local cable channel video. FiberNet III is in the planning and pilot phase. When implemented, FiberNet III equipment will allow faster and higher capacity and a more reliable means of optical networking.

FiberNet II, based on MPLS technologies, is a state-of-the-art multiservice wide area network (Metropolitan WAN) platform with the capacity to deliver 100 megabit/second, one and ten gigabit per second WAN links to ITPCC participating agencies. FiberNet III planning anticipates significantly increased bandwidth requirements necessitating implementation of dense wave division multiplexing (DWDM) that enables multiple 10 gigabit channels per fiber strand, dramatically increasing utilization of fiber assets. DWDM solutions are currently being piloted for Montgomery College, WSSC, and Montgomery County E911 requirements. Selected FiberNet Hub sites are also being equipped with DWDM capabilities in response to the emerging needs of the participating agencies.

At the end of FY15, FiberNet reached 476 Locations. FiberNet is scheduled to reach 526 Locations by the end of FY16, 551 locations by the end of FY17, and 576 locations by the end of FY18. The Traffic Management network reaches over 210 traffic cameras and 850 traffic signals, with plans to add 200 pedestrian safety beacons. By the end of FY18, and including sites connected by private carriers and institutional partners, FiberNet is expected to have a total of more than 1,825 sites on the network. The FY16 ITPCC consensus recommendation remains to complete all MCPS elementary school and HOC connections, complete hub-site upgrades, add new sites, complete multi-year planning for FiberNet III implementation, and achieve compliance with ARRA grant requirements.

DTS is responsible for FiberNet project management, network operations, and maintenance of electronics on behalf of the participating agencies, while the Department of Transportation (DOT) is responsible for installation and maintenance of the fiber optic cable. Comcast, at the direction of DTS, provides dark fiber used to connect several locations to FiberNet. Connected sites include MCG departments/offices, public safety sites, Montgomery College campuses, MCPS elementary, middle, and high schools plus several administrative facilities, M-NCPPC sites, HOC sites, and WSSC sites, including the headquarters building in Prince Georges County. The municipalities of Takoma Park, Gaithersburg, and Rockville are on FiberNet as well as several cultural centers, including the American Film Institute (AFI), the Fillmore, Strathmore, Bethesda Performing Arts, the Convention Center, Olney Theatre, and Black Rock. Currently, FiberNet is focused on activating all ARRA Grant-funded sites, which includes the MCPS elementary schools and 21 HOC properties. The ITPCC FiberNet Governance Group Charter was approved on November 25, 2002 to establish interagency oversight and governance of FiberNet. On June 26, 2012, the ITPCC approved a Policy Guideline for Special Allocation of FiberNet Resources. This policy governs special fiber resource allocation decisions for FiberNet for all participating ITPCC agencies. ITPCC approved a special allocation request by Montgomery College for creation of a College Fiber Network that would permit MC communications traffic to be routed over dedicated optical fibers within FiberNet's physical plant on electronics owned and operated by the College. In December 2012,

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the County and MC entered into a separate Memorandum of Understanding (MOU) to address the use and expansion of FiberNet by the College. In FY16, foundational documents and procedures are being created or updated by DTS, including: Concept of Operations (CONOPS), Agency Service Level Agreements (SLAs), agency customized Service Agreements (SAs), and Standard Operating Procedures. The FiberNet Network Operations Center (FiberNet NOC) initial operations capability was established by DTS on October 1, 2015. The Interagency FiberNet Configuration/Change Control Board (CCB) Charter was adopted by unanimous consent of the ITPCC on February 2, 2016.

## **CIP Request**

© 1-3 are the Executive's request for the FiberNet program in the FY17-22 CIP.

The following Table reflects the financial commitments that are being made to the successful FiberNet program in FY17-22. Of great significance is the projected availability of \$21.2 million for CIP capital costs to expand the FiberNet infrastructure through at least FY21, enabling the realistic consideration of future initiatives now actively under consideration.

	FY17	FY18	FY19	FYFY	FY21	FY22
CIP Request	\$4,193	\$4,390	\$4,340	\$4,250	\$4,069	\$3,996
Preliminary Cable Plan*	\$4,193	\$4,390	\$4,340	\$4,250	\$4,069	NA

\*FiberNet costs (in \$000s)

The ARRA Grant ended on August 31, 2013 and provided over \$11.1 million dollars in fiber construction and networking equipment for a matching County contribution of \$2.6 million, resulting in the addition of 102 new sites to FiberNet. The matching contribution was funded as part of the FY12 and FY13 FiberNet CIP and was composed of cash and in-kind matches. In FY14, Current Revenue General funding was shifted from the Information Technology: College (P856509) project to complete FiberNet expansion to College sites in accordance with the terms of the MOU. The City of Takoma Park and the Maryland Municipal League each contributed \$769,000 in FY15 for FiberNet projects in the County. There will be additional restricted-use Cable Fund PEG/I-NET capital grant funding available through the County's three cable franchise agreements because the County has demonstrated the continuing need for expansion and upgrade of the FiberNet network. Previously, funding for the FiberNet CIP was provided by the General Fund, Cable Fund cable franchise fees, and restricted-use Cable Fund PEG/I-NET capital grants. Funding for future years of the FiberNet CIP will be from restricted-use Cable Fund PEG/I-NET capital grants. FiberNet operations and maintenance (O&M) activities are a critical component of FiberNet's cost, but are not funded from the FiberNet CIP. Previously, FiberNet O&M expenses were funded by a Comcast FiberNet operations grant. In the renewed Comcast franchise agreement transmitted by the County Executive for Council approval, restricted-use grant funding available to support FiberNet O&M will be reduced, and a greater portion of FiberNet O&M will be funded by Cable Fund franchise fee revenue. The CIP project expenditure increase is funded by restricted-use Cable Fund PEG/I-NET capital grant revenue that the County has a legal obligation to spend on appropriate uses. FiberNet remains totally funded by the Cable Fund, and this reliance on external revenues for a critical asset should be examined as the County's own economic position permits reallocation of scarce resources.

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Council staff have been informally advised that the ultraMontgomery program that was funded through Cable Plan revenues and organized under the FiberNet transfers will be developed as a stand-alone program with its own targets and budget authority. This is a welcome change as it will permit the FiberNet governance system to focus on the clearly delineated FiberNet work plan, while the ultraMontgomery initiative can unfold at its own speed and budget capacity. In addition, this will permit Council staff and OMB to make appropriate changes in the wording of the FiberNet PDF so that it more accurately reflects current conditions.

## **Technology Services**

#### PROGRAM DESCRIPTION AND OBJECTIVES

The goals of the Department of Technology Services (DTS) are to promote effective use of automated information systems and telecommunications technology throughout the County government and ensure that the County's information systems and telecommunications capabilities are planned, developed, implemented, and maintained efficiently and effectively.

The objectives of the DTS capital improvements program are to connect information systems and telecommunications equipment within County buildings to the County's fiber optic network; and to facilitate voice, data, and video transmissions (e.g., Internet access, public-safety radio, traffic control and management) among Montgomery County Government, Montgomery County Public Schools, Montgomery College, Maryland National Capital Park and Planning Commission, Housing Opportunities Commission and Washington Suburban Sanitary Commission facilities.

#### HIGHLIGHTS

- At the end of FY15, FiberNet reached 476 locations. Based on the current funding schedule, FiberNet is scheduled to reach 526 locations by the end of FY16; 551 locations by the end of FY17; and 576 locations by the end of FY18.
- By the end of FY 18 and including sites connected by the County (Department of Transportation), private carriers and institutional partners - FiberNet is expected to have a total of more than 1,825 sites on the network serving a tremendous variety of facilities from traffic signals and cameras, wine and liquor stores to major campus networks and large multi-story office buildings.
- Funds have been allocated in FY16 for the following ultraMontgomery initiatives: White Oak Science Gateway connecting the White Oak FiberNet hub to Fairland, Great Seneca Science Corridor providing interconnection to Ashburn to support Internet 2 for Montgomery College and the National Institute for Standards and Technology, and Federal Exchange supporting 100 gigabit networking between Federal agencies.
- Focus remains on performing hub-site upgrades, adding new sites, and constructing inter-jurisdictional connections to enable cost-effective future technology partnerships.
- FiberNet enables the County to create a secure, multiagency shared network that is flexible and may be configured easily to satisfy agency and department requirements to deploy data, voice, and video applications requiring higher bandwidth.

#### PROGRAM CONTACTS

Contact Helen Ni of the Department of Technology Services at 240.777.2807 or Dennis Hetman of the Office of Management and Budget at 240.777.2770 for more information regarding this department's capital budget.

#### CAPITAL PROGRAM REVIEW

The Recommended FY17-22 Capital Improvements Program totals \$25.2 million over the six-year program. This is a \$9.1 million, or a 56.1 percent increase from the \$16.2 million contained in the approved FY15-20 capital program. Cost increases for the FiberNet project are due to the addition of FY21 and FY22 to this project, major hub relocations and upgrades, IP video distribution, registering and monitoring underground plant with Miss Utility, supporting Government and Educational ultraMontgomery broadband initiatives, and completing long-delayed new site constructions. Expenditure increases are funded by restricted-use Cable Fund PEG capital grant revenue that the County has a legal obligation to spend on appropriate uses. Portions of funds are intended to be used to support fiber to the University of Maryland along the Purple Line.

## Fibernet (P509651)

Category Sub Category Administering Agency Planning Area	General Government Technology Services Technology Services (AAGE05) Countywide				Date Last Modified Required Adequate Public Facility Relocation Impact Status					11/17/14 No None Ongoing		
	. [	Total	Thru FY15	Est FY16	Total 6 Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs
				EXPENDIT								<u> </u>
Planning, Design and Sup	ervision	7,245	3,046		4,199	731	724	719			705	0
Land		1,819	4	. 0	1,815	225	300	300	300	390	300	0
Site Improvements and Utilities		14,568	13,568	0	1,000	200	200	200	200	200	0	0
Construction		21,532	8,839	2,375	10,318	2,040	1,666	1,621	1,545	1,955	1,491	0
Other		33,840	24,210	1,723	7,907	99 <u>7</u>	1,500	1,500	1,500	910	1,500	0
	Total	79,003	49,667	4,098	25,238	4,193	4,390	4,340	4,250	4,069	3,996	0
				FUNDIN	G SCHEDU	LE (\$000s)	*					
Cable TV		66,123	36,787	4,098	25,238	4,193	4,390	4,340	4,250	4,069	3,996	0
Contributions		1,624	1,624	0	0	0	0	o	0	0	0	0
Current Revenue: General	1	256	256	0	0	0	0	0	0	0	0	0
G.O. Bonds		4,074	4,074	0	0	0	0	0	0	0	0	0
PAYGO		6,926	6,926	0	0	0	. 0	٥	0	0	0	0
	Total	79,003	49,667	4,098	25,238	4,193	4,390	4,340	4,250	4,069	3,996	D

#### APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 17	4,193
Appropriation Request Est.	FY 18	4,390
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		53,765
Expenditure / Encumbrances		49,667
Unencumbered Balance	•	4,098

Date First Appropriation	FY 96	
First Cost Estimate		
Current Scope	FY 17	79,003
Last FY's Cost Estimate	_	61,332

#### Description

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#### Estimated Schedule

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#### Cost Change

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#### Coordination

DTS, Department of Transportation, Advanced Transportation Management System Project, Montgomery County Public Schools, M-NCPPC, MC, HOC, WSSC, PSCS, Information Technology Policy Coordination Committee (ITPCC), ITPCC CIO Subcommittee, and Interagency Technology Advisory Group (ITAG).

## FY17 PRELIMINARY CABLE COMMUNICATIONS PLAN (in \$000's)

		App	EST	App	Est	Proj.	Proj.	Proj.	Proj. FY20	Proj.
1 1	BEGINNING FUND BALANCE	FY15 (422)	FY15 136	FY16 1,231	FY16 1,905	FY17 1,480	FY18 1,425	FY19 1,434	1,441	FY21 1,447
1 2	REVENUES	[422]	190	1,231	2,502	1,400	1,42.5	1,434	A/114	±,,
	Franchise Fees <sup>4</sup>	17,002	17,330	17,281	17,539	17,661	17,773	17,868	17,942	18,018
4	Gaithersburg PEG Contribution <sup>a</sup>	175	177	168	173	170	167	165	164	164
	PEG Operating Grant <sup>124</sup>	2,289	2,278	4,110	3,251	4,120	4,056	4,013	3,991	3,968
	PEG Capital Grant <sup>123</sup>	6,277	6,559	6,298	6,563	6,517	6,647	6,747 0	6,814 0	6,882
	FiberNet Operating & Equipment Grant <sup>2</sup> Interest Earned	1,800 0	1,792 8	0 11	903 11	0	0	0	0	0
	TFCG Application Review Fees	120	140	150	150	150	150	150	150	150
	Miscellaneous		10							
12	TOTAL ANNUAL REVENUES	27,663	28,293	28,019	28,590	28,617	28,793	28,943	29,061	29,182
13	TOTAL RESOURCES-CABLE FUND	27,241	28,429	29,250	30,495	30,098	30,218	30,377	30,503	30,630
14	EXPENDITURE OF RESTRICTED FUNDS									
	A. EXPENDTITURE OF RESTRICTED CAPITAL FUNDS Municipal Capital Support <sup>3</sup>			*						
	Rockville Equipment	894	923	946	956	978	997	1,012	1,022	1,033
	Takoma Park Equipment	894	923	946	956	978	997	1,012	1,022	1,033
19	Municipal League Equipment	824	923	946	956	978	997	1,012	1,022	1,033
20	SUBTOTAL	2,611	2,770	2,837	2,867	2,933	2,990	3,035	3,066	3,098
21	PEG Capital	852	853	714	714	852	2,204	2,580	2,616	2,647
22	FiberNet - CIP	3,748	2,979	4,098	4,098	4,193	4,390	4,340	4,250	4,069 9,814
23 24	(Must be greater or equal to Line 6) SUBTOTAL B. EXPENDITURE OF OTHER RESTRICTED FUNDS	7,211	6,602	7,649	7,678	7,978	9,584	9,955	9,932	3,014
24	Municipal Franchise Fee Distribution <sup>a</sup>		÷							
26	City of Rockville	668	701	700	740	757	761	765	770	774
27	City of Takoma Park	240	246	245	245	243	· 243	244	245	246
28	Other Municipalities	265	270	271	268	268	270	272	274	276
29	SUBTOTAL	1,174	1,217	1,216	1,253	1,268	1,275	1,282	1,289	1,296
	Municipal Operating Support <sup>®</sup> Rockville PEG Support	76	76	77	77	78	81	84	87	91
32	Takoma Park PEG Support	76	76	77	77	78	81	84	87	91
	Muni. League PEG Support	145	76	77	77	78	81	84	87	91
34	SUBTOTAL	299	228	232	230	234	242	251	261	272
35	SUBTOTAL	1,473	1,445	1,448	1,483	1,502	1,517	1,533	1,550	1,568
36	TOTAL EXPENDITURES OF RESTRICTED FUNDS	8,684	8,047	9,097	9,161	9,480	11,100	11,487	11,482	11,382
37	NET TOTAL ANNUAL REVENUES	18,979	20,246	18,922	19,429	19,137	17,693	17,456	17,579	17,800
38	NET TOTAL RESOURCES-CABLE FUND	18,557	20,382	20,153	21,334	20,618	19,118	18,889	19,021	19,247
	EXPENDITURES OF NON-RESTRICTED FUNDS	1								
1 40	A. Transmission Facilities Coordinating Group									
40 41	A. Transmission Facilities Coordinating Group TFCG Application Review	175	175	190	190	194	198	202	207	211
40 41 42	A. Transmission Facilities Coordinating Group TFCG Application Review SUBTOTAL		175 175	190 <b>190</b>	190 190	194 194	. 198 198	202 202	207 <b>20</b> 7	211 <b>211</b>
41	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION	. 17S	175	190	190	194	198	202	207	211
41 42 43 44	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration	. <b>175</b> 840	175 825	1 <b>90</b> 885	190 885	194 919	<b>198</b> 956	<b>202</b> 997	<b>20</b> 7 1,040	<b>211</b> 1,085
41 42 43 44 45	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration	17S 840 76	175 825 81	190 885 82	190 885 82	194 919 85	198 956 89	202 997 93	207 1,040 97	<b>211</b> 1,085 101
41 42 43 44 45 46	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty	17S 840 76 110	175 825 81 118	190 885 82 119	190 885 82 119	194 919 85 123	198 956 89 128	202 997 93 134	207 1,040 97 139	<b>211</b> 1,085 101 146
41 42 43 44 45 46 47	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration	17S 840 76	175 825 81	190 885 82	190 885 82	194 919 85	198 956 89	202 997 93	207 1,040 97	<b>211</b> 1,085 101
41 42 43 44 45 46 47 48 49	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services	17S 840 76 110 81 88 268.161	175 825 81 118 89 88 145	190 885 82 119 75 98 168	190 885 82 119 75 98 168	194 919 85 123 51 99 171	198 956 89 128 52 101 175	202 997 93 134 53 104 179	207 1,040 97 139 55 106 183	<b>211</b> 1,085 101 146 56 108 187
41 42 43 44 45 46 47 48 49 50	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL	175 840 76 110 81 88 268.161 1,463	175 825 81 118 89 88 145 <b>1,346</b>	190 885 82 119 75 98 168 1,426	190 885 82 119 75 98 168 1,426	194 919 85 123 51 99 171 1,450	198 956 89 128 52 101 175 <b>1,502</b>	202 997 93 134 53 104 179 1,559	207 1,040 97 139 55 106 183 1,619	211 1,085 101 146 56 108 187 1,682
41 42 43 44 45 46 47 48 49 50 51	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL SUBTOTAL	17S 840 76 110 81 88 268.161	175 825 81 118 89 88 145	190 885 82 119 75 98 168	190 885 82 119 75 98 168	194 919 85 123 51 99 171	198 956 89 128 52 101 175	202 997 93 134 53 104 179	207 1,040 97 139 55 106 183	<b>211</b> 1,085 101 146 56 108 187
41 42 43 44 45 46 47 48 49 50 51	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL	175 840 76 110 81 88 268.161 1,463	175 825 81 118 89 88 145 <b>1,346</b>	190 885 82 119 75 98 168 1,426	190 885 82 119 75 98 168 1,426	194 919 85 123 51 99 171 1,450	198 956 89 128 52 101 175 <b>1,502</b>	202 997 93 134 53 104 179 1,559	207 1,040 97 139 55 106 183 1,619	211 1,085 101 146 56 108 187 1,682
41 42 43 44 45 46 47 48 49 50 51 52	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL SUBTOTAL C. MONTGOMERY COUNTY GOVERNMENT - CCM	175 840 76 110 81 88 268.161 1,463	175 825 81 118 89 88 145 <b>1,346</b>	190 885 82 119 75 98 168 1,426	190 885 82 119 75 98 168 1,426	194 919 85 123 51 99 171 1,450 1,644	198 956 89 128 52 101 175 <b>1,502</b>	202 997 93 134 53 104 179 1,559	207 1,040 97 139 55 106 183 1,619	211 1,085 101 146 56 108 187 1,682
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL SUBTOTAL C. MONTGOMERY COUNTY GOVERNMENT - CCM Media Production & Engineering Personnel Costs Operating	175 840 76 110 81 88 268.161 1,463 1,638 907 31	175 825 81 118 89 88 145 1,346 1,521 839 90	190 885 82 119 75 98 168 1,426 1,616 647 31	190 885 82 119 75 98 168 1,426 1,616 647 31	194 919 85 123 51 99 1,71 1,450 1,644 - 673 32	198 956 89 128 52 101 1,75 1,502 1,700 700 33	202 997 93 134 53 104 1,759 1,761 729 33	207 1,040 97 139 55 106 183 1,619 1,826 761 34	211 1,085 101 146 56 108 187 1,682 1,894 794 35
41 42 43 44 45 46 47 48 950 51 52 53 54 55 56	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL SUBTOTAL C. MONTGOMERY COUNTY GOVERNMENT - CCM Media Production & Engineering Personnel Costs Operating Contracts - TV Production	175 840 76 110 81 88 268.161 1,463 1,638 907 31 87	175 825 81 118 89 88 145 1,346 1,521 839 90 79	190 885 82 119 75 98 168 1,426 1,616 647 31 87	190 885 82 119 75 98 168 1,426 1,616 647 31 87	194 919 85 123 51 99 171 1,450 1,644 - 673 32 89	198 956 89 128 52 101 175 1,502 1,700 700 33 91	202 997 93 134 53 104 1,759 1,761 729 33 93	207 1,040 97 139 55 106 183 1,619 1,826 761 34 95	211 1,085 101 146 56 108 1,87 1,682 1,894 794 35 97
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL SUBTOTAL C. MONTGOMERY COUNTY GOVERNMENT - CCM Media Production & Engineering Personnel Costs Operating Contracts - TV Production New Media, Webstreaming & VOD Services	175 840 76 110 81 88 268.161 1,463 1,638 907 31 87 38	175 825 81 118 89 88 145 1,346 1,521 839 90 79 47	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38	194 919 85 123 51 99 171 1,450 1,644 - - - - - - - - - - - - - - - - - -	198 956 89 128 52 101 175 <b>1,502</b> 1,700 33 91 40	202 997 93 134 53 104 179 <b>1,559</b> <b>1,761</b> 729 33 93 40	207 1,040 97 139 55 106 183 1,619 1,826 761 34 95 41	211 1,085 101 146 56 108 187 1,682 1,894 794 35 97 42
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL SUBTOTAL C. MONTGOMERY COUNTY GOVERNMENT - CCM Media Production & Engineering Personnel Costs Operating Contracts - TV Production New Media, Webstreaming & VOD Services J SUBTOTAL	175 840 76 110 81 88 268.161 1,463 1,638 907 31 87	175 825 81 118 89 88 145 1,346 1,521 839 90 79	190 885 82 119 75 98 168 1,426 1,616 647 31 87	190 885 82 119 75 98 168 1,426 1,616 647 31 87	194 919 85 123 51 99 171 1,450 1,644 - 673 32 89	198 956 89 128 52 101 175 1,502 1,700 700 33 91	202 997 93 134 53 104 1,759 1,761 729 33 93	207 1,040 97 139 55 106 183 1,619 1,826 761 34 95	211 1,085 101 146 56 108 1,87 1,682 1,894 794 35 97
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL SUBTOTAL C. MONTGOMERY COUNTY GOVERNMENT - CCM Media Production & Engineering Personnel Costs Operating Contracts - TV Production New Media, Webstreaming & VOD Services	175 840 76 110 81 88 268.161 1,463 1,638 907 31 87 38	175 825 81 118 89 88 145 1,346 1,521 839 90 79 47	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38	194 919 85 123 51 99 171 1,450 1,644 - - - - - - - - - - - - - - - - - -	198 956 89 128 52 101 175 <b>1,502</b> 1,700 33 91 40	202 997 93 134 53 104 179 <b>1,559</b> <b>1,761</b> 729 33 93 40	207 1,040 97 139 55 106 183 1,619 1,826 761 34 95 41	211 1,085 101 146 56 108 187 1,682 1,894 794 35 97 42
41 42 43 44 45 46 47 48 49 50 51 52 53 55 55 57 58 59	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL SUBTOTAL C. MONTGOMERY COUNTY GOVERNMENT - CCM Media Production & Engineering Personnel Costs Operating Contracts - TV Production New Media, Webstreaming & VOD Services J SUBTOTAL Public Information Office	175 840 76 110 81 88 268.161 1,463 1,638 907 31 87 38 1,064	175 825 81 118 89 88 145 1,346 1,521 839 90 79 47 1,055	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38 804	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38 804	194 919 85 123 51 99 171 1,450 1,644 673 32 89 39 89 39 832	198 956 89 128 52 101 175 <b>1,502</b> 1,700 33 91 40 <b>863</b>	202 997 93 134 53 104 179 <b>1,559</b> <b>1,761</b> 729 33 93 40 <b>896</b>	207 1,040 97 139 55 106 183 1,619 1,826 761 34 95 41 931	211 1,085 101 146 56 108 187 <b>1,682</b> 1,894 794 35 97 42 968
41 42 43 44 45 46 47 48 9 50 51 52 53 54 55 56 57 58 59 60 61 62	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL SUBTOTAL SUBTOTAL C. MONTGOMERY COUNTY GOVERNMENT - CCM Media Production & Engineering Personnel Costs Operating Contracts - TV Production New Media, Webstreaming & VOD Services J SUBTOTAL Public Information Office Personnel Costs Operating Expenses Contracts - TV Production	175 840 76 110 81 88 268.161 1,463 1,638 907 31 87 38 1,064 774 12 0	175 825 81 118 89 88 145 1,346 1,521 839 90 90 79 47 1,055 758 12 0	190 885 82 119 75 98 168 1,426 1,616 647 31 87 31 87 38 804 796 12 0	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38 804 796 12 0	194 919 85 123 51 99 171 1,450 1,644 673 32 89 39 832 828 828 12 0	198 956 89 128 52 101 175 <b>1,502</b> 1,700 33 91 40 <b>863</b> 861 13 0	202 997 93 134 53 104 179 <b>1,559</b> <b>1,761</b> 729 33 93 40 <b>896</b> 897 13 0	207 1,040 97 139 55 106 183 1,619 1,826 761 34 95 41 931 936 13 0	211 1,085 101 146 56 108 187 1,682 1,894 794 35 97 42 968 976 14 0
41 42 43 44 45 46 47 48 95 51 52 53 54 55 56 75 85 96 61 62 63	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL SUBTOTAL C. MONTGOMERY COUNTY GOVERNMENT - CCM Media Production & Engineering Personnel Costs Operating Contracts - TV Production New Media, Webstreaming & VOD Services ) SUBTOTAL Public Information Office Personnel Costs Operating Expenses Contracts - TV Production SUBTOTAL	175 840 76 110 81 88 268.161 1,463 1,638 907 31 87 38 1,064 774 12	175 825 81 118 89 88 145 1,346 1,521 839 90 79 47 1,055 758 12	190 885 82 119 75 98 168 1,426 1,616 1,616 647 31 87 38 804 796 12	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38 804 796 12	194 919 85 123 51 99 171 1,450 1,644 - - - - - - - - - - - - - - - - - -	198 956 89 128 52 101 175 <b>1,502</b> 1,700 700 33 91 40 <b>863</b> 861 13	202 997 93 134 53 104 1,559 1,761 729 33 93 40 896 897 13	207 1,040 97 139 55 106 183 1,619 1,826 761 34 95 41 931 936 13	211 1,085 101 146 56 108 187 1,682 1,894 794 35 97 42 968 976 14
41 42 43 44 45 46 47 48 95 51 52 53 54 55 56 57 8 96 61 62 63 64	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL SUBTOTAL C. MONTGOMERY COUNTY GOVERNMENT - CCM Media Production & Engineering Personnel Costs Operating Contracts - TV Production New Media, Webstreaming & VOD Services ) SUBTOTAL Public Information Office Personnel Costs Operating Expenses Contracts - TV Production SUBTOTAL County Council	175 840 76 110 81 88 268.161 1,463 1,638 907 31 87 38 1,064 774 12 0 787	175 825 81 118 89 88 145 1,346 1,521 839 90 79 47 1,055 758 12 0 770	190 885 82 119 75 98 1,68 1,426 1,616 647 31 87 38 804 796 12 0 809	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38 804 7966 12 0 809	194 919 85 123 51 99 171 1,450 1,644 673 32 89 39 832 839 832 828 812 0 840	198 956 89 128 52 1,755 1,502 1,700 33 91 40 863 863 861 13 0 874	202 997 93 134 53 104 1.759 1.759 1.761 729 33 93 40 896 896 897 13 0 910	207 1,040 97 139 55 106 183 1,619 1,826 761 34 95 41 931 936 13 0 949	211 1,085 101 146 56 108 187 1,682 1,894 794 35 97 42 968 976 14 0 990
41 42 43 44 45 46 47 48 95 51 52 53 55 55 55 57 85 96 61 62 63 64 65	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL SUBTOTAL C. MONTGOMERY COUNTY GOVERNMENT - CCM Media Production & Engineering Personnel Costs Operating Contracts - TV Production New Media, Webstreaming & VOD Services ) SUBTOTAL Public Information Office Personnel Costs Operating Expenses Contracts - TV Production SUBTOTAL County Councii Personnel Costs	175 840 76 110 81 88 268.161 1,463 1,638 907 31 87 38 1,064 774 12 0 787 179	175 825 81 118 89 88 1346 1,521 839 90 79 47 1,055 758 12 0 770 758	190 885 82 119 75 98 168 1,426 1,616 1,616 647 31 87 38 804 796 12 0 809 485	190 885 82 119 75 98 168 1,426	194 919 85 123 51 99 171 1,450 1,644 673 32 89 39 832 839 832 828 812 0 880 504	198 956 89 128 52 101 175 1,502 1,700 33 91 40 863 861 13 0 861 13 0 874 525	202 997 93 134 53 104 1,559 1,559 1,559 33 93 40 896 897 13 0 910 547	207 1,040 97 139 55 106 183 1,619 1,826 761 34 95 41 931 936 13 0 949 571	211 1,085 101 146 56 108 187 1,682 1,894 794 35 97 42 968 976 14 0 990 595
41 42 43 44 45 46 47 48 95 55 55 55 55 55 55 55 55 55 55 55 55	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL SUBTOTAL C. MONTGOMERY COUNTY GOVERNMENT - CCM Media Production & Engineering Personnel Costs Operating Contracts - TV Production New Media, Webstreaming & VOD Services ) SUBTOTAL Public Information Office Personnel Costs Operating Expenses Contracts - TV Production SUBTOTAL County Councii Personnel Costs Operating Expenses Contracts - TV Production	175 840 76 110 81 88 268.161 1,463 1,638 907 31 87 38 1,064 774 12 0 787 179 13	175 825 81 118 89 88 145 1,35 1,35 1,521 839 90 79 47 1,055 758 12 0 770 770 184 18	190 885 82 119 75 98 168 1,426 1,616 1,616 647 31 87 38 804 796 12 0 809 809 485 13	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38 804 796 12 0 809 485 13	194 919 85 123 51 99 171 1,450 1,644 673 32 89 39 832 828 828 12 0 828 828 12 0 840 504 13	198 956 89 128 52 101 175 1,502 1,700 33 91 40 863 861 13 0 861 13 0 874 525 14	202 997 93 134 53 104 1,759 1,759 1,761 729 33 93 40 896 897 13 0 910 910	207 1,040 97 139 55 106 183 1,619 1,826 761 34 95 41 931 936 13 0 936 13 0 949 571	211 1,085 101 146 56 108 187 1,682 1,894 794 35 97 42 976 42 976 14 0 9976 14 0 990 595 14
41 42 43 44 45 46 47 48 95 55 55 57 58 59 60 61 62 63 64 65 66 67	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL SUBTOTAL C. MONTGOMERY COUNTY GOVERNMENT - CCM Media Production & Engineering Personnel Costs Operating Contracts - TV Production New Media, Webstreaming & VOD Services } SUBTOTAL Public Information Office Personnel Costs Operating Expenses Contracts - TV Production SUBTOTAL County Council Personnel Costs Operating Expenses Contracts - TV Production	175 840 76 110 81 88 268.161 1,463 1,638 907 31 87 38 1,064 774 12 0 787 179 13 152	175 825 81 118 89 88 145 1,346 1,521 839 90 79 47 1,055 758 12 0 770 770 184 18 152	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38 804 796 12 0 809 809 485 13 152	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38 804 796 12 0 809 485 13 152	194 919 85 123 51 99 171 1,450 1,644 7 673 32 89 39 832 839 832 828 828 828 12 0 840 504 13 154	198 956 89 128 52 101 175 1,502 1,700 33 91 40 863 861 13 0 861 13 0 874 525 14 158	202 997 93 134 53 104 179 1,559 1,761 729 33 93 40 896 897 13 0 910 910 547 14	207 1,040 97 139 55 106 183 1,619 1,826 761 34 95 41 936 13 936 13 936 13 936 571 14	211 1,085 101 146 56 108 187 1,682 1,894 794 35 97 42 968 976 14 0 990 595 14 169
41 42 43 44 45 46 47 48 95 51 52 53 54 55 56 57 58 96 61 62 63 64 65 66	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL SUBTOTAL C. MONTGOMERY COUNTY GOVERNMENT - CCM Media Production & Engineering Personnel Costs Operating Contracts - TV Production New Media, Webstreaming & VOD Services ) SUBTOTAL Public Information Office Personnel Costs Operating Expenses Contracts - TV Production SUBTOTAL County Councii Personnel Costs Operating Expenses Contracts - TV Production	175 840 76 110 81 88 268.161 1,463 1,638 907 31 87 38 1,064 774 12 0 787 179 13	175 825 81 118 89 88 145 1,35 1,35 1,521 839 90 79 47 1,055 758 12 0 770 770 184 18	190 885 82 119 75 98 168 1,426 1,616 1,616 647 31 87 38 804 796 12 0 809 809 485 13	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38 804 796 12 0 809 485 13	194 919 85 123 51 99 171 1,450 1,644 673 32 89 39 832 828 828 12 0 828 828 12 0 840 504 13	198 956 89 128 52 101 175 1,502 1,700 33 91 40 863 861 13 0 861 13 0 874 525 14	202 997 93 134 53 104 1,759 1,759 1,761 729 33 93 40 896 897 13 0 910 910	207 1,040 97 139 55 106 183 1,619 1,826 761 34 95 41 931 936 13 0 936 13 0 949 571	211 1,085 101 146 56 108 187 1,682 1,894 794 35 97 42 976 42 976 14 0 9976 14 0 990 595 14
41 42 43 44 45 46 47 48 95 55 55 55 55 55 55 55 55 55 55 55 55	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL SUBTOTAL C. MONTGOMERY COUNTY GOVERNMENT - CCM Media Production & Engineering Personnel Costs Operating Contracts - TV Production New Media, Webstreaming & VOD Services ) SUBTOTAL Public Information Office Personnel Costs Operating Expenses Contracts - TV Production SUBTOTAL County Counci Personnel Costs Operating Expenses Contracts - TV Production General Sessions and Committee Meetings	175 840 76 110 81 88 268.161 1,463 1,638 907 31 87 38 1,064 774 12 0 787 179 13 152 101	175 825 81 118 89 88 145 1,346 1,521 839 90 79 47 1,055 758 122 0 770 770 184 184 182 101	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38 804 796 12 0 809 485 13 152 101	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38 804 796 12 0 809 485 13 152 101	194 919 85 123 51 99 171 1,450 1,644 7 673 32 89 39 832 828 12 0 840 840 504 13 154 103	198 956 89 128 52 101 175 1,502 1,700 33 91 40 863 861 13 0 861 13 0 874 525 14 158 105	202 997 93 134 53 104 179 1,559 1,761 729 33 93 40 896 897 13 0 910 910 547 14 161	207 1,040 97 139 55 106 183 1,619 1,826 761 34 95 41 931 936 13 936 13 0 949 571 14 165 110	211 1,085 101 146 56 108 187 1,682 1,894 794 35 97 42 968 976 14 0 990 990 595 14 169 113
$\begin{array}{c} 41\\ 42\\ 43\\ 44\\ 45\\ 46\\ 47\\ 48\\ 9\\ 50\\ 51\\ 52\\ 53\\ 54\\ 55\\ 56\\ 57\\ 58\\ 9\\ 60\\ 61\\ 62\\ 63\\ 66\\ 66\\ 66\\ 66\\ 70\\ 71\\ \end{array}$	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL SUBTOTAL C. MONTGOMERY COUNTY GOVERNMENT - CCM Media Production & Engineering Personnel Costs Operating Contracts - TV Production New Media, Webstreaming & VOD Services J SUBTOTAL Public Information Office Personnel Costs Operating Expenses Contracts - TV Production SUBTOTAL County Councii Personnel Costs Operating Expenses Contracts - TV Production SUBTOTAL MNCPPC	175 840 76 110 81 88 268.161 1,463 1,638 907 31 87 38 1,064 774 12 0 787 179 13 152 101 91 536	175 825 81 118 89 88 145 1,346 1,521 839 90 79 47 1,055 758 12 0 770 184 184 184 182 101 91 546	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38 804 796 12 0 809 809 485 13 152 101 91 842	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38 804 796 12 0 809 485 13 152 101 91 842	194 919 85 123 51 99 171 1,450 1,644 7 673 32 89 39 832 89 39 832 828 12 0 840 504 13 154 103 93	198 956 89 128 52 101 175 1,502 1,700 33 91 40 863 861 13 0 874 525 14 158 105 95	202 997 93 134 53 104 179 1,559 1,761 729 33 93 40 896 897 13 0 910 910 547 14 161 107 97	207 1,040 97 139 55 106 183 1,619 1,826 761 34 95 41 931 936 13 0 939 949 571 14 165 110 99	211 1,085 101 146 56 108 187 1,682 1,894 794 35 97 42 968 976 14 0 990 990 595 14 169 113 101
$\begin{array}{c} 41\\ 42\\ 43\\ 44\\ 45\\ 46\\ 47\\ 48\\ 9\\ 50\\ 51\\ 52\\ 53\\ 54\\ 55\\ 56\\ 57\\ 58\\ 9\\ 60\\ 61\\ 62\\ 63\\ 66\\ 66\\ 66\\ 66\\ 70\\ 71\\ 72\\ \end{array}$	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL SUBTOTAL C. MONTGOMERY COUNTY GOVERNMENT - CCM Media Production & Engineering Personnel Costs Operating Contracts - TV Production New Media, Webstreaming & VOD Services J SUBTOTAL Public Information Office Personnel Costs Operating Expenses Contracts - TV Production SUBTOTAL County Councii Personnel Costs Operating Expenses Contracts - TV Production SUBTOTAL MNCPPC Contracts - TV Production	175 840 76 110 81 88 268.161 1,463 1,638 907 31 87 38 1,638 1,64 774 12 0 787 179 13 152 101 91 536 99	175 825 81 118 89 88 145 1,346 1,521 839 90 79 47 1,055 758 12 0 770 184 18 152 101 184 182 101 91 546 99	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38 804 796 12 0 809 809 485 13 152 101 91 842 99	190 885 82 119 75 98 168 1,426 1,227 1,426 1,426 1,227 1,426 1,426 1,426 1,227 1,426 1,227 1,426 1,227 1,426 1,227 1,426 1,227 1,426 1,227 1,426 1,227 1,426 1,227	194 919 85 123 51 99 171 1,450 1,644 - 673 32 89 39 832 828 12 0 840 504 13 154 103 93 868 100	198 956 89 128 52 101 175 1,502 1,700 33 91 40 863 861 13 0 874 525 14 158 105 95 896 103	202 997 93 134 53 104 179 1,559 1,761 729 33 93 40 896 897 13 0 910 910 547 14 161 107 97 926	207 1,040 97 139 55 106 183 1,619 1,826 761 34 936 13 936 13 936 13 0 936 13 0 936 13 13 0 949 571 14 165 110 99 958 107	211 1,085 101 146 56 108 187 1,682 1,894 794 35 97 42 968 976 14 0 990 595 14 169 113 101 992 110
$\begin{array}{c} 41\\ 42\\ 43\\ 44\\ 45\\ 46\\ 47\\ 48\\ 9\\ 50\\ 51\\ 52\\ 53\\ 54\\ 55\\ 56\\ 57\\ 58\\ 9\\ 60\\ 61\\ 62\\ 63\\ 64\\ 65\\ 66\\ 67\\ 78\\ 89\\ 70\\ 71\\ 72\\ 73\\ \end{array}$	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL SUBTOTAL SUBTOTAL C. MONTGOMERY COUNTY GOVERNMENT - CCM Media Production & Engineering Personnel Costs Operating Contracts - TV Production New Media, Webstreaming & VOD Services J SUBTOTAL County Council Personnel Costs Operating Expenses Contracts - TV Production SUBTOTAL County Council Personnel Costs Operating Expenses Contracts - TV Production SUBTOTAL County Council Personnel Costs Operating Expenses Contracts - TV Production SUBTOTAL County Council Personnel Costs Operating Expenses Contracts - TV Production SUBTOTAL MNCPPC Contracts - TV Production New Media, Webstreaming & VOD Services	175 840 76 110 81 88 268.161 1,463 1,638 907 31 87 38 1,638 1,664 774 12 0 787 179 13 152 101 91 536 99 24	175 825 81 118 89 88 145 1,346 1,521 839 90 79 47 1,055 758 12 0 770 184 184 182 101 91 546 99 24	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38 804 796 12 0 809 485 13 152 101 91 842 99 24	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38 804 796 12 0 809 485 132 152 101 91 842 99 24	194 919 85 123 51 99 171 1,450 1,644 673 32 89 39 832 828 12 0 840 504 13 154 13 154 103 93 868 100 25	198 956 89 128 52 101 175 1,502 1,700 33 91 40 863 861 13 0 874 525 14 158 105 95 896 103 25	202 997 93 134 53 104 179 1,559 1,761 729 33 93 40 896 897 13 0 910 910 547 14 161 107 97 926 105 26	207 1,040 97 139 55 106 183 1,619 1,826 761 34 95 41 936 13 0 949 571 14 165 110 99 958 107 - 26	211 1,085 101 146 56 108 187 1,682 1,894 794 35 97 42 968 976 14 0 990 595 14 169 113 101 992 110 27
$\begin{array}{c} 41\\ 42\\ 43\\ 44\\ 45\\ 46\\ 47\\ 48\\ 9\\ 50\\ 51\\ 52\\ 53\\ 54\\ 55\\ 56\\ 57\\ 58\\ 9\\ 60\\ 61\\ 62\\ 63\\ 66\\ 66\\ 66\\ 66\\ 70\\ 71\\ 72\\ \end{array}$	TFCG Application Review SUBTOTAL B. FRANCHISE ADMINISTRATION Personnel Costs - Cable Administration Personnel Costs - DTS Administration Personnel Costs - Charges for County Atty Operating Engineering & Inspection Services Legal and Professional Services SUBTOTAL SUBTOTAL C. MONTGOMERY COUNTY GOVERNMENT - CCM Media Production & Engineering Personnel Costs Operating Contracts - TV Production New Media, Webstreaming & VOD Services J SUBTOTAL Public Information Office Personnel Costs Operating Expenses Contracts - TV Production SUBTOTAL County Councii Personnel Costs Operating Expenses Contracts - TV Production SUBTOTAL MNCPPC Contracts - TV Production	175 840 76 110 81 88 268.161 1,463 1,638 907 31 87 38 1,638 1,64 774 12 0 787 179 13 152 101 91 536 99	175 825 81 118 89 88 145 1,346 1,521 839 90 79 47 1,055 758 12 0 770 184 18 152 101 184 182 101 91 546 99	190 885 82 119 75 98 168 1,426 1,616 647 31 87 38 804 796 12 0 809 809 485 13 152 101 91 842 99	190 885 82 119 75 98 168 1,426 1,227 1,426 1,426 1,227 1,426 1,426 1,426 1,227 1,426 1,227 1,426 1,227 1,426 1,227 1,426 1,227 1,426 1,227 1,426 1,227 1,426 1,227	194 919 85 123 51 99 171 1,450 1,644 - 673 32 89 39 832 828 12 0 840 504 13 154 103 93 868 100	198 956 89 128 52 101 175 1,502 1,700 33 91 40 863 861 13 0 874 525 14 158 105 95 896 103	202 997 93 134 53 104 179 1,559 1,761 729 33 93 40 896 897 13 0 910 910 547 14 161 107 97 926	207 1,040 97 139 55 106 183 1,619 1,826 761 34 936 13 936 13 936 13 0 936 13 0 936 13 13 0 949 571 14 165 110 99 958 107	211 1,085 101 146 56 108 187 1,682 1,894 794 35 97 42 968 976 14 0 990 595 14 169 113 101 992 110

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## FY17 PRELIMINARY CABLE COMMUNICATIONS PLAN (in \$000's)

77 78 79 80	D. MONTGOMERY COLLEGE - MC ITV	FY15	FY15	FY16	FY16	FY17	FY18	FY19	CV 3R	
77 78 79 80	D. MONTGOMERY COLLEGE - MC ITV								FY20	FY21
78 79 80										
79 80	Personnel Costs	1,344	1,344	1,456	1,456	1,513	1,575	1,641	1,712	1,785
80	Operating Expenses	86	86	86	86	88	89	91	94	96
	SUBTOTAL	1,430	1,430	1,542	1,542	1,492	1,560	1,560	1,560	1,560
04	E. PUBLIC SCHOOLS - MCPS ITV	1 400	1,490	1,548	1,548	1,609	1,674	1,744	1,820	1,898
81 82	Personnel Costs Operating Expenses	1,490 106	1,490	1,548	1,548	108	110	112	115	1,858
83	SUBTOTAL	1,596	1,596	1,654	1,654	1,717	1,784	1,857	1,935	2,016
	F. COMMUNITY ACCESS PROGRAMMING"	2,000	2,350	1,004	2,054	-,/ -/				
	Personnel Costs	1,954	1,954	2,042	2,042	2,122	2,208	2,300	2,400	2,503
	Operating Expenses	67	67	67	67	68	70	71	73	75
	Rent & Utilities	385	385	396	396	404	412	421	431	441
88	New Media, Webstreaming & VOD Services	23	23	23	23	24	24	25	25	26
89	SUBTOTAL	2,429	2,429	2,528	2,528	2,618	2,714	2,818	2,929	3,045
90	G. PEG OPERATING									
	Operating Expenses	116	95	206	206	185	189	193	197	202
	Youth and Arts Community Media	150	150	100	100	102	104	106	109	111
	Community Engagement	91	91	91	91	93	95	97	99	101
	Closed Captioning	130	130	163	163	166	170	173	189	189
	Technical Operations Center (TOC)	10	8	10	10	10	10	11	11	11
	Mobile Production Vehicle	22	9 484	19 5 <b>90</b>	19 590	19 575	20 587	20 600	21 626	21 636
97	SUBTOTAL SUBTOTAL	518.288	484	550	720	3/3	267	000	020	050
	FiberNet - Personnel Charges for DTS	689	546	727	727	756	786	819	855	892
	FiberNet - Operations & Maintenance DTS	1,131	1,308	1,126	1,126	1,147	1,171	1,197	1,224	1,253
	FiberNet - Network Operations Center	ىلد ايسال رىل	1,000	729	729	910	910	910	910	910
	FiberNet - Personnel Charges for DOT	76	76	101	101	105	109	114	118	124
	FiberNet - Operations & Maintenance DOT	359	238	351	351	357	365	373	381	390
104	SUBTOTAL	2,255	2,169	3,034	3,034	· 3,275	3,341	3,412	3,489	3,568
	I. MISS UTILITY COMPLIANCE									
106	Miss Utility Compliance	420	374	420	420	428	437	447	457	467
107	SUBTOTAL	420	374	420	420	428	437	447	457	467
108	TOTAL EXPENDITURE OF UNRESTRICTED FUNDS	12,796	12,497	13,963	13,963	14,414	14,883	15,317	15,795	16,274
109	TOTAL EXPENDITURE OF RESTRICTED FUNDS	8,684	8,047	9,097	9,161	9,480	11,100	11,487	11,482	11,382
110	TOTAL EXPENDITURES - PROGRAMS	21,480	20,544	23,059	23,124	23,894	25,984	26,804	27,277	27,656
	J. OTHER									
112	Indirect Costs Transfer to Gen Fund	579	579	614	614	638	664	692	722	753
113	Indirect Costs Transfer to Gen Fund (ERP & MCTime)	30	30		-	0	0	0	0	0
114	Transfer to the General Fund	4,265	4,266	4,787	4,787	3,650	1,647	949	567	277
115	Legislative Community Communications NDA	488	488	490	490	490	490	490	490	490
116	SUBTOTAL	5,363	5,363	5,891	5,891	4,778	2,801	2,131	1,779	1,520
117	TOTAL EXPENDITURES	26,843	25,907	28,951	29,015	28,673	28,784	28,936	29,056	29,176
	K. ADJUSTMENTS									
	Prior Year Adjustments	0	0	0	0	0	0	0	0	٥
	Encumbrance Adjustment	0	601	0	0	0	0	0	0	0
	Transfer for Vehcile		16	0	0					
	CIP - Designated Claim on Fund	0	0	0	0	0	0	0	0	0
123	TOTAL ADJUSTMENTS	0	617	0	0	0	0	0	0	0
124	FUND BALANCE	398	1,905	299	1,480	1,425	1,434	1,441	1,447	1,453
125	FUND BALANCE PER POLICY GUIDANCE	1,370	1,398	1,395	1,416	1,425	1,434	1,441	. 1,447	1,453
	L. SUMMARY - EXPENDITURES BY FUNDING SOURCE									
	Transfer to Gen Fund-Indirect Costs	610	610	614	614	638	664	692	722	753
	Transfer to Gen Fund-Mont Coll Cable Fund®	1,430	1,430	1,542	1,542	1,492	1,560	1,560	1,560	1,560
	Transfer to Gen Fund-Public Sch Cable Fund®	1,596	1,596	1,654	1,654	1,717	1;784	1,857	1,935	2,016
	Transfer to CIP Fund	3,748	2,979	4,098	4,098	4,193	4,390	4,340	4,250	4,069
	Transfer to the General Fund-Other Transfer to the General Fund-Legislative Branch NDA	4,266	4,266	4,787	4,787	3,650	1,647	949	S67	277
132 133	FUND TRANSFERS SUBTOTAL	488	488	490	490	490	490	490	490	490 0 165
		12,137	11,368	13,186	13,186	12,180	10,535	9,888	9,523	9,165
	Cable Fund Expenditure of Unrestricted Funds	9,770	9,471	10,766	10,766	11,206	11,539	11,900	12,300	12,698
	Cable Fund Direct Expenditures	14,706	14,539	15,765	15,829	16,493	18,249	19,048	19,532	20,011
136	Cline-punicipiers of the Cable TV Fund incorporate assumpti	<sup>ons</sup> 9,651	3,428	3,843	3,843	3,993	4,155	4,329	4,516	4,711
137	Cable Fund Operating	11,055	11,111	11,922	11,986	12,500	14,095	14,718	15,016	15,299

Notes: These projections are based on the Executive's Recommended budget and include the revenue and resource assumptions of that budget. The projected future expenditures, revenues, transfers, and fund balances may vary based on changes not assumed here to fee or tax rates, usage, inflation, future labor agreements, and other factors.

1. Subject to municipal pass-through payment.

2. Restricted revenue and expenditures: Certain Cable Fund revenues, required in excess of the federal limit on franchise fees, and corresponding expenditures (Municipal Franchise Fees/Pass-throughs, PEG Capital/Equipment Grants, and PEG Operating Revenue) are contractually required by franchise, municipal, and settlement agreements, and by the County Code, and may only be used for permissible federal purposes and in a manner consistent with applicable agreements.

3. The Concest franchise renewal process is ongoing and specific elements of a final agreement are uncertain. Restricted categories such as PEG Capital and Operating support revenues, as well as Municipal Capital and Operating Support expenditures, will be affected. Municipal cost sharing is dependent on final negotiation of agreements between the County and municipalities. The County may require Capital Grants based on community needs. The County may negotiate, but may not require Operating Grants in addition to Franchise Fees. FY16-FY21 assumes that the County will receive payments from Concest calculated at a new franchise agreement, but assumes Municipal payments as similar to the previous franchise agreement.

4. Montgomery Community Television, Inc., d/b/a Montgomery Community Media, is designated as a sole source contractor to provide community access media services.