Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force										DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*				R-1 ITEM NOMENCLATURE PE 0603423F: *Global Positioning System III - Operational Control Segment*							
COST ($ in Millions)	**FY 2011**	**FY 2012**	**FY 2013 Base**	**FY 2013 OCO**	**FY 2013 Total**	**FY 2014**	**FY 2015**	**FY 2016**	**FY 2017**	**Cost To Complete**	**Total Cost**
Total Program Element	353.623	362.823	371.595	-	371.595	393.742	270.253	190.089	208.511	Continuing	Continuing
67A021: *OCX*	353.623	362.823	307.785	-	307.785	332.232	206.313	127.729	144.861	Continuing	Continuing
67A025: *GPS Enterprise Integrator*	-	-	63.810	-	63.810	61.510	63.940	62.360	63.650	Continuing	Continuing

Note

The Cost to Complete and Total Cost for MDAP projects in this program element are documented in the R3. The Cost to Complete and Total Cost on the R2 are entered as "Continuing" and not reflective of the total cost for MDAP projects since the R2 does not account for prior years funding.

A. Mission Description and Budget Item Justification

The Global Positioning System (GPS) is a space based Positioning, Navigation and Timing (PNT) distribution system, which operates through weather and electromagnetic environments (jamming, spoofing, etc.). GPS supports both civil and military users in air, space, sea and land operations. This Program Element (PE) funds the Research & Development for the next generation GPS control segment (OCX) and the GPS Enterprise Integrator. This includes the advanced concept development, systems analysis, modernized control segment development, training simulators, Integrated Logistics Support (ILS) products, and developmental test resources, and systems engineering required to meet the government's obligations to the international, military and civil communities. OCX acquisition was established to 1) fly legacy and GPS III satellites, 2) incorporate situational awareness to support Navwar and signal monitoring, and 3) enable mission capability upgrades to support warfighter Effects-Based Approach to Operations (EBAO). GPS Enterprise Integrator is responsible for architecture and system definition (the analysis and definition, management, maintenance, and evolution of the GPS Enterprise requirements and interface technical documents) as well as for the planning, execution, and fielding of the Enterprise.

OCX funds will support engineering studies and analyses, architectural engineering studies, trade studies, technology needs forecasting, systems engineering, system development, test and evaluation efforts and mission operations in support of upgrades and product improvements for military and civil applications necessary to support efforts to protect U.S. military and allies' use of GPS. Additionally, funds will ensure a disciplined Capability Insertion Program (CIP) plan to meet Joint Requirements Oversight Council (JROC) approved required capabilities. Funds will support science and technology, technology development and systems development efforts.

GPS supports both civil and military users in air, space, sea and land operations. The GPS Enterprise consists of Space, Ground Control, and User Equipment Segments. The government is responsible for the integration of the three GPS Segments such that they provide worldwide GPS capability to support the warfighter and over a billion national security, civil, allied, and commercial GPS users. The GPS Enterprise Integrator project includes the efforts associated with the Government's prime contract tasks necessary to accomplish this critical integrating function. The Enterprise Integrator maintains the GPS architecture and system definition, ensures compatibility of Generation II and III systems, and develops/manages plans for execution and fielding of the GPS Enterprise. Further, the Integrator provides analyses to support Government-directed enterprise level trades among the GPS segments leading to definition, management, maintenance, and evolution of the GPS Enterprise requirements and interface technical documents.

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force	DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0603423F: *Global Positioning System III - Operational Control Segment*

In addition, the GPS Enterprise Integrator project funds support for the delivery of all GPS Enterprise capabilities. Examples for Generation II include electronic protection and additional civil signals; for Generation III, additional anti-jamming protection. To accomplish this, GPS Enterprise Integrator delivers architecture and trade studies between space, control, and user segments, with recommendations presented to the Government through a formal change board process. GPS Enterprise Integrator's analyses guide government decisions to ensure efficient and effective synchronization and execution across all Generation II and III GPS programs as well as studies concerning potential future GPS alternatives. For Enterprise-wide integration to be successful, the Integrator: works with the GPS Segment ACAT-1D prime contractor teams to develop plans for early risk reduction System Integration (SI) Demos to ensure system interfaces and functionality meet user and system requirements; establishes Giver/Receiver Lists that ensure all equipment and documentation is ready when needed; conducts formal test and verification, including Requirement Verification Plans; and System Test Plans and Procedures. GPS Enterprise Integrator performs all these efforts across all GPS programs in all acquisition phases. The government owns the Enterprise system requirements and integration, and with support from the Enterprise Integrator team eliminates the need to fund a development prime contractor to perform these functions. This enhances government oversight and accountability.

B. Program Change Summary ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	-	390.889	369.453	-	369.453
Current President's Budget	353.623	362.823	371.595	-	371.595
Total Adjustments	353.623	-28.066	2.142	-	2.142
• Congressional General Reductions	-	-4.066			
• Congressional Directed Reductions	-	-24.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.147	-			
• Other Adjustments	353.770	-	2.142	-	2.142

Change Summary Explanation

FY11: Congressional Directed Transfer from PE 0305265F, GPS III Space Segment: (+381.9); Congressional Directed Reduction: (-25.000); Congressional General Reduction: (-3.130); SBIR: (-0.147)

FY12: Congressional Directed Reduction for slow execution: (-24.000); Congressional General Reduction: (-4.066)

FY13: Integrate operationally responsive space lessons learned: (1.500)

Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0603423F: *Global Positioning System III - Operational Control Segment*	PROJECT 67A021: *OCX*	

COST ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
67A021: *OCX*	353.623	362.823	307.785	-	307.785	332.232	206.313	127.729	144.861	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

In FY13, funds for GPS Enterprise level engineering integrations efforts were transferred to project 67A025 within this Program Element (PE).

A. Mission Description and Budget Item Justification

The Global Positioning System (GPS) is a space based Position, Navigation and Time (PNT) distribution system. This Project funds the Research and Development (R&D) for the next generation GPS operational control segment (OCX). This includes, but is not limited to, advanced concept development, systems engineering and analysis, modernized control segment development, training simulators, Integrated Logistics Support (ILS) products, and developmental test resources. The OCX acquisition was established to 1) fly legacy and GPS III satellites, 2) incorporate situational awareness to support Navwar and signal monitoring, and 3) enable mission capability upgrades to support warfighter Effects-Based Approach to Operations (EBAO).

Funds will support engineering studies and analyses, architectural engineering studies, trade studies, technology needs forecasting, systems engineering, system development, test and evaluation efforts and mission operations in support of upgrades and product improvements for military and civil applications necessary to support efforts to protect U.S. military and allies' use of GPS. Additionally, funds will ensure a disciplined Capability Insertion Program (CIP) plan to meet Joint Requirements Oversight Council (JROC) approved required capabilities. Funds will support science and technology, technology development and systems development efforts.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
Title: OCX	353.623	362.823	307.785
Description: Development of the next generation control segment.			
FY 2011 Accomplishments: Continue OCX Block 1-2 Integrated System Design, Systems Engineering & Integration (SE&I) and technical and program support.			
FY 2012 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0603423F: *Global Positioning System III - Operational Control Segment*	PROJECT 67A021: *OCX*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
Continue OCX Block 1-2 Integrated System Design, Systems Engineering & Integration (SE&I) and technical and program support. ***FY 2013 Plans:*** Continue OCX Block 1-2 Integrated System Design, Systems Engineering & Integration (SE&I) and technical and program support.			
Accomplishments/Planned Programs Subtotals	353.623	362.823	307.785

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• R-216: *RDT&E AF, PE 0305265F, GPS III Space Segment*	430.132	455.095	318.992	0.000	318.992	221.276	215.224	161.621	76.642	342.600	1,028.253
• P-19: *MPAF, PE 0305265F, GPS III Space Segment*	0.000	432.244	410.294	0.000	410.294	415.031	424.694	531.528	774.281	4,329.600	1,371.253
• P-20: *MPAF, PE 0305265F, GPS III Space Segment Advance Procurement*	0.000	81.811	82.616	0.000	82.616	74.167	117.855	119.993	121.828	1,058.200	312.015
• P-42: *OPAF, PE 0603423F, NAVSTAR GPS*	0.000	0.000	0.000	0.000	0.000	3.931	4.697	11.530	13.738	0.000	20.158
• TBD: *DOT (FAA)*	17.523	20.800	25.800	0.000	25.800	0.000	0.000	0.000	0.000	Continuing	Continuing

D. Acquisition Strategy

The Air Force is pursuing a "Block" approach to the next generation GPS control segment (OCX) to rapidly respond to warfighter capability requirements. The Block acquisition strategy approach follows the "Back to Basics" space program acquisition philosophy which focuses on mission success and on-time delivery. Additionally, the strategy calls for capability (i.e. better signal maintainability (Digital Waveform Generation (DWG)), Unified S-Band (USB), Search and Rescue (SAR) GPS, and near-real time C2) on-ramps for the follow on contract for GPS III SVs 09 and beyond which will require updates to the OCX ground segment. This will ensure enterprise synchronization across space and ground segments.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0603423F: *Global Positioning System III - Operational Control Segment*	PROJECT 67A021: *OCX*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Phase B OCX Block 1 & 2 Development	C/CPAF	Raytheon:Aurora, CO	473.837	266.920	Nov 2011	268.587	Nov 2012	-		268.587	875.904	1,885.248	0.000
SE&I	C/CPAF	SAIC:Huntington Beach, CA	19.128	10.121	Nov 2011	9.563	Nov 2012	-		9.563	31.186	69.998	0.000
Modernization/SE & Technical Support	Various	Various:Various,	39.408	37.485	Nov 2011	-		-		-	0.000	76.893	0.000
OCS transition to OCX	C/CPAF	Boeing:Seal Beach, CA	2.889	-		-		-		-	0.000	2.889	0.000
		Subtotal	535.262	314.526		278.150		-		278.150	907.090	2,035.028	0.000

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Directorate Support	Various	Various:,	66.584	11.073	Jan 2012	3.234	Nov 2012	-		3.234	10.547	91.438	0.000
		Subtotal	66.584	11.073		3.234		-		3.234	10.547	91.438	0.000

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	-	-		-		-		-	0.000	0.000	0.000

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
FFRDC (Aerospace - PMA)	RO	Aerospace:El Segundo, CA	43.777	37.224	Jan 2012	11.623	Nov 2012	-		11.623	37.904	130.528	0.000
FFRDC (MITRE - PMA)	C/CPFF	MITRE:Bedford, MA	-	-		7.551	Nov 2012	-		7.551	24.625	32.176	0.000
FFRDC (SEI - PMA)	C/CPFF	SEI:Pittsburgh, PA	-	-		2.174	Nov 2012	-		2.174	7.090	9.264	0.000

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0603423F: *Global Positioning System III - Operational Control Segment*	PROJECT 67A021: *OCX*

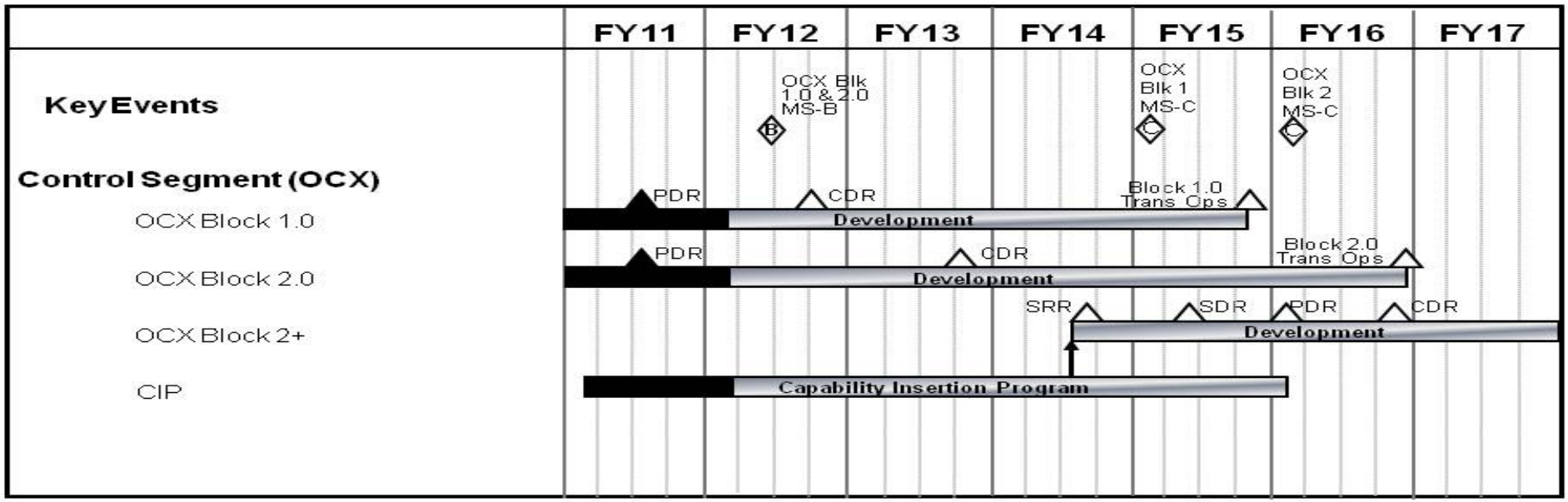
Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Administration (PMA)	Various	Various:,	-	-		5.053	Nov 2012	-		5.053	16.479	21.532	0.000
		Subtotal	43.777	37.224		26.401		-		26.401	86.098	193.500	0.000

	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	645.623	362.823		307.785		-		307.785	1,003.735	2,319.966	0.000

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0603423F: *Global Positioning System III - Operational Control Segment*	PROJECT 67A021: *OCX*



CDR – Critical Design Review
CIP – Capability Insertion Program
PDR – Preliminary Design Review
SRR – System Requirements Review
SV – Space Vehicle
SDR – System Design Review
d – Delta

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0603423F: *Global Positioning System III - Operational Control Segment*	**PROJECT** 67A021: *OCX*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
OCX Blocks 1 & 2 MS B	2	2012	4	2012
OCX Block 1 Critical Design Review (CDR)	4	2012	4	2012
Software Iteration 1.5 Complete	2	2013	2	2013
OCX Block 2 CDR	4	2013	4	2013
OCX Launch and Checkout System (LCS) Complete	4	2013	4	2013
Software Iteration 1.7 Complete	1	2014	1	2014
Software Iteration 2.1 Complete	3	2014	3	2014
OCX Block 1 Formal Qualification Test (FQT)	4	2014	4	2014

Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0603423F: *Global Positioning System III - Operational Control Segment*	PROJECT 67A025: *GPS Enterprise Integrator*	

COST ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
67A025: *GPS Enterprise Integrator*	-	-	63.810	-	63.810	61.510	63.940	62.360	63.650	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

In FY13 funds for this project were transferred from project 67A021 within this same PE.

A. Mission Description and Budget Item Justification

The Global Positioning System (GPS) is a space based Positioning, Navigation and Timing (PNT) distribution system, which operates through weather and electromagnetic environments (jamming, spoofing, etc). GPS supports both civil and military users in air, space, sea and land operations. The GPS Enterprise consists of Space, Ground Control, and User Equipment Segments. The government is responsible for the integration of the three GPS Segments such that they provide worldwide GPS capability to support the warfighter and over a billion national security, civil, allied, and commercial GPS users. This project funds the Research and Development for the GPS Enterprise Integrator, which includes the efforts associated with the Government's prime contract tasks necessary to accomplish this critical integrating function. The Enterprise Integrator maintains the GPS architecture and system definition, ensures compatibility of Generation II and III systems, and develops/manages plans for execution and fielding of the GPS Enterprise. Further, the Integrator provides analyses to support Government-directed enterprise level trades among the GPS segments leading to definition, management, maintenance, and evolution of the GPS Enterprise requirements and interface technical documents.

In addition, this project funds support for the delivery of all GPS Enterprise capabilities. Examples for Generation II include electronic protection and additional civil signals; for Generation III, additional anti-jamming protection. To accomplish this, GPS Enterprise Integrator delivers architecture and trade studies between space, control, and user documents, with recommendations presented to the Government through a formal change board process. GPS Enterprise Integrator's analyses guide government decisions to ensure efficient and effective synchronization and execution across all Generation II and III GPS programs as well as studies concerning potential future GPS alternatives. For Enterprise-wide integration to be successful, the Integrator: works with the GPS Segment ACAT-1D prime contractor teams to develop plans for early risk reduction System Integration (SI) Demos to ensure system interfaces and functionality meet user and system requirements; establishes Giver/Receiver Lists that ensure all equipment and documentation is ready when needed; conducts formal test and verification, including Requirement Verification Plans; and System Test Plans and Procedures. GPS Enterprise Integrator performs all these efforts across all GPS programs in all acquisition phases. The government owns the Enterprise system requirements and integration, and with support from the Enterprise Integrator team eliminates the need to fund a development prime contractor to perform these functions. This enhances government oversight and accountability.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to support operational systems.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
Title: GPS Enterprise Integrator	-	-	63.810

Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0603423F: *Global Positioning System III - Operational Control Segment*	PROJECT 67A025: *GPS Enterprise Integrator*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
Description: The integration and configuration control of all elements of the GPS system (space/ground/user equipment) with one another in support of both military and civil users ***FY 2013 Plans:*** Accomplish system definition and system integration across the GPS Enterprise, including Generation II and III (space, control, and user segments). Conduct OCX-GPS III Risk Reduction demos for interface and functionality validation; evolve specifications and interface control documents (ICDs) in support of GPS III Capability Insertion Program and Military GPS User Equipment (MGUE) Critical Design Review (CDR) and GPS III Milestone-B.			
Accomplishments/Planned Programs Subtotals	-	-	63.810

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• R-56: *RDT&E AF, PE 0305164F, NAVSTAR Global Positioning System User Equipment Space*	0.000	0.000	96.840	0.000	96.840	125.926	122.756	153.727	160.714	403.600	402.409
• R-198: *RDT&E AF, PE 0305164F, NAVSTAR Global Positioning System User Equipment Space*	155.778	131.832	29.621	0.000	29.621	0.000	0.000	0.000	0.000	0.000	1,584.110
• R-199: *RDT&E AF, PE 0305165F, NAVSTAR GPS (Space),*	33.404	17.704	14.335	0.000	14.335	0.000	0.000	0.000	0.000	0.000	65.443
• R-216: *RDT&E AF, PE 0305265F, GPS III Space Segment*	430.132	455.095	318.992	0.000	318.992	221.276	215.224	161.621	76.642	342.600	1,028.253
• P-22: *MPAF, PE 0305165F, Global Positioning System (Space)*	64.252	107.689	58.147	0.000	58.147	77.602	7.328	0.000	0.000	0.000	315.018
• P-19, P-20: *MPAF, PE 0305265F, GPS III Space Segment*	0.000	514.055	492.910	0.000	492.910	489.198	542.549	651.521	896.109	5,387.700	1,683.268
• P-42: *OPAF, PE 0305164F, 0305165F, 0603423F, NAVSTAR GPS*	5.250	2.008	2.031	0.000	2.031	13.492	14.749	15.516	15.795	2.200	49.007

Exhibit R-2A, RDT&E Project Justification: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0603423F: *Global Positioning System III - Operational Control Segment*	PROJECT 67A025: *GPS Enterprise Integrator*

D. Acquisition Strategy

In accordance with a “back to basics” acquisition approach and exercise of strong oversight of development contractors, the Air Force will exercise complete ownership of the architecture, system definition, and integration. GPS Enterprise Integrator comprises both Federally Funded Research and Development Center (FFRDC) contractors and a Systems Engineering & Integration (SE&I) contractor. GPS Enterprise Integrator function of the SE&I contractor is currently funded within this Program Element (PE) for the Next Generation Operational Control System (OCX). SE&I services were procured in 2007 through a full and open competition. GPS Enterprise Integrator function is now being tracked as a separate Project (67A021) within this PE.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Air Force			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0603423F: *Global Positioning System III - Operational Control Segment*	PROJECT 67A025: *GPS Enterprise Integrator*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
GPS Enterprise Integrator	C/CPAF	SAIC:El Segundo, CA	-	-		40.822	Nov 2012	-		40.822	220.558	261.380	0.000
		Subtotal	-	-		40.822		-		40.822	220.558	261.380	0.000

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
FFRDC (MITRE)	C/CPFF	MITRE:Bedford, MA	-	-		10.000	Nov 2012	-		10.000	54.029	64.029	0.000
FFRDC (Aerospace)	RO	Aerospace:El Segundo, CA	-	-		12.988	Nov 2012	-		12.988	70.173	83.161	0.000
		Subtotal	-	-		22.988		-		22.988	124.202	147.190	0.000

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	-	-		-		-		-	0.000	0.000	0.000

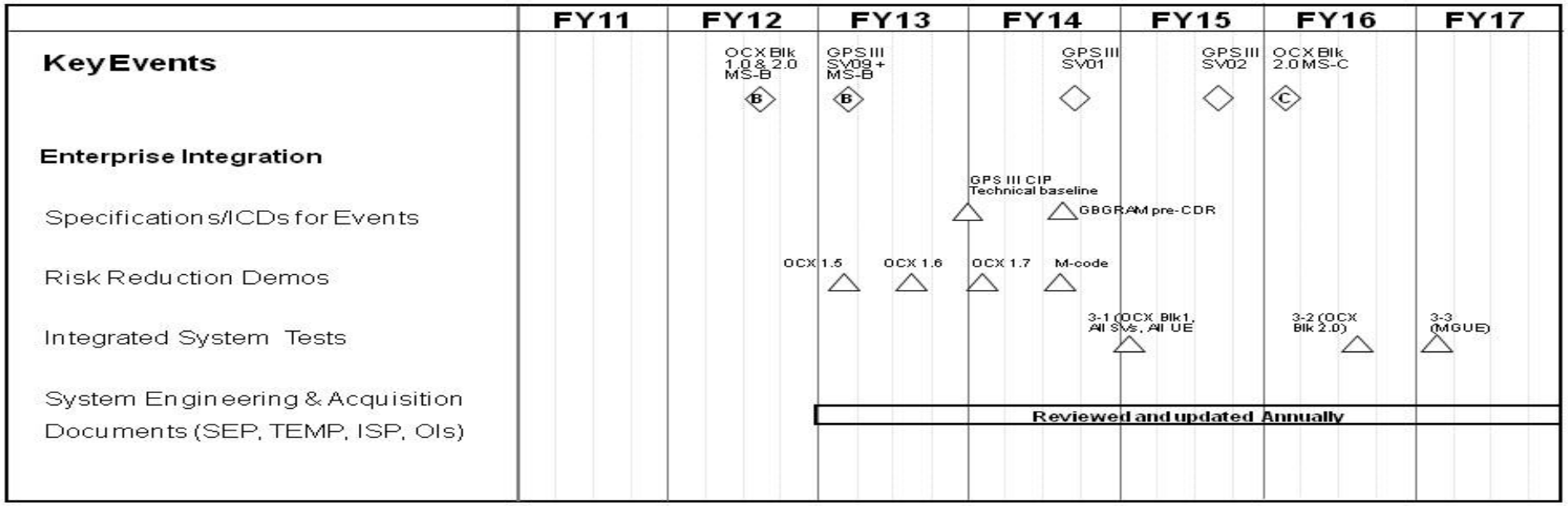
Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	-	-		-		-		-	0.000	0.000	0.000

	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-		63.810		-		63.810	344.760	408.570	0.000

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0603423F: *Global Positioning System III - Operational Control Segment*	PROJECT 67A025: *GPS Enterprise Integrator*



CDR – Critical Design Review
ICD – Interface Control Document
OI – Operating Instruction
TEMP – Test and Evaluation Master Plan
CIP – Capability Insertion Program
ISP – Information Support Plan
SEP – Systems Engineering Plan
UE – User Equipment
GB-GRAM – Ground Based GPS Receiver Application Module
MGUE – Military GPS User Equipment
SV – Space Vehicle

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0603423F: *Global Positioning System III - Operational Control Segment*	PROJECT 67A025: *GPS Enterprise Integrator*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Specifications and ICD's for MGUE CDR	1	2013	1	2013
Risk Reduction Demostration for OCX 1.5 and GPS III functionality	1	2013	1	2013
Risk Reduction Demostration for OCX 1.6 and GPS III functionality	3	2013	3	2013
Specifications and ICDs for GPS III Capability Insertion Program Technical Baseline	1	2014	1	2014
Risk Reduction Demostration for OCX 1.7 and GPS III functionality	1	2014	1	2014
Risk Reduction Demonstration for M-code functionality	3	2014	3	2014