Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force												Date: March 2014
Appropriation/Budget Activity 3600: *Research, Development, Test & Evaluation, Air Force* / BA 7: *Operational Systems Development*					R-1 Program Element (Number/Name) PE 0305265F / *GPS III Space Segment*							
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
Total Program Element	1,708.619	281.880	200.984	212.571	-	212.571	167.576	78.447	77.366	78.837	50.884	2,857.164
676007: *DASS Integration, GPS*	2.143	1.795	2.668	1.434	-	1.434	1.299	1.318	1.344	1.368	-	13.369
67A019: *GPS III*	1,706.476	280.085	198.316	211.137	-	211.137	166.277	77.129	76.022	77.469	50.884	2,843.795
MDAP/MAIS Code: 292												

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The Global Positioning System (GPS) is a space based navigation system that fills validated Joint Service requirements for worldwide, accurate, common grid three dimensional positioning/navigation for military aircraft, ships, and ground personnel. The consistent accuracy, unaffected by location or weather and available in real time, significantly improves effectiveness of reconnaissance, weapons delivery, mine countermeasures and rapid deployment for all services. GPS must comply with Title 10 United States Code (USC) 2281 which requires that the Secretary of Defense ensures that continued sustainment and operations of GPS for military and civilian purposes and 51 USC sec 50112 which requires that GPS complies with certain standards and facilitates international cooperation.

The system is composed of three segments: user equipment (funded under PE 0305164F), space (funded under this PE and PE 0305165F) and a control network (funded under PE 0305165F and PE 0603423F). The satellites broadcast high accuracy data using precisely synchronized signals which are received and processed by user equipment installed in military platforms. This equipment computes the platform position and velocity and provides steering vectors to target locations or navigation waypoints. The control segment provides daily updates to the navigation messages broadcast from the satellites to maintain system precision in three dimensions to 16 meters spherical error probable worldwide. Additionally, GPS supports the United States Nuclear Detonation (NUDET) Detection System (NDS) mission and provides strategic and tactical support to the following Department of Defense (DoD) missions: Joint Operations by providing capabilities for Positioning, Navigation, and Timing (PNT); Command, Control, Communications, and Intelligence; Special Operations; Military Operations in Urban Terrain; Defense-Wide Mission Support; Air Mobility; and Space Launch Orbital Support.

GPS III is the next generation Space Vehicle (SV) to join the GPS constellation. GPS III SVs will deliver significant enhancements, including a new civil (L1C) Galileo-compatible signal, and enhanced anti-jam power. SV11 will add two additional secondary payloads, Search and Rescue/GPS (SAR/GPS) and Laser Retroreflector Array (LRA). The SAR/GPS payload provided by Canada will fill a validated National Search and Rescue Committee requirement to provide enduring, space-based distress alerting capability to detect, locate, and relay distress alerts to fulfill its responsibilities under international agreements for Search and Rescue. SAR integration costs are funded by the Coast Guard. LRA, built by the Naval Research Lab (NRL) is a passive reflector that will improve accuracy and provide better ephemeris data. National Geospatial-Intelligence Agency (NGA) funds the integration costs of LRA.

RDT&E, AF PE 0305265F funds GPS III and will support research, development, test and evaluation of GPS III SV01-02, and risk-reducing simulators through a structured systems engineering approach that matures and delivers space vehicles for launch. Space Modernization Initiatives (SMI) focuses on space vehicle affordability and capability, addresses future requirements and resilience needs, and expands the industrial base to enhance future competition. For example, this

includes the initial systems design work for incorporating space vehicle technology improvements on items such as second source atomic clocks, smart solar cells that provide 30% more efficiency, alternate transmitter assembly that provides increased power efficiency at a reduced recurring cost, lithium ion batteries which address battery obsolescence issues and offer substantial weight savings, and a dual space-ground link system (SGLS)/Unified S-Band (USB) communication channel to be compliant with the USB interface. RDT&E funds will also be used for GPS III SV09+ risk reduction towards obsolescence and affordability initiatives. GPS III SVs 03-08 are in the Production and Deployment Phase. The Air Force is seeking authorization to exercise the option for SV09-10 under the current contract as technical equivalents of GPS III SV01-08. The Air Force is also assessing the business case for the future use of a multi-year procurement (MYP) strategy for GPS III.

Additionally the program includes engineering studies and analyses, trade studies, system development, test and evaluation efforts, integrated logistics support products, on-orbit support, and mission operations supporting civil and military applications that protect U.S. military and allies' use of GPS.

This program is a 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. Program Change Summary ($ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	318.992	221.276	215.224	-	215.224
Current President's Budget	281.880	200.984	212.571	-	212.571
Total Adjustments	-37.112	-20.292	-2.653	-	-2.653
• Congressional General Reductions	-0.421	-0.292			
• Congressional Directed Reductions	-	-20.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-9.601	-			
• Other Adjustments	-27.090	-	-2.653	-	-2.653

Change Summary Explanation

FY13: -$27.090M sequestration reduction
FY14: -$20.000M Congressional reduction for ahead of need.
FY15: -$2.653M inflation adjustment

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force			Date: March 2014
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0305265F / *GPS III Space Segment*	Project (Number/Name) 676007 / *DASS Integration, GPS*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
676007: *DASS Integration, GPS*	2.143	1.795	2.668	1.434	-	1.434	1.299	1.318	1.344	1.368	-	13.369
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Search and Rescue GPS (SAR/GPS) is an approved secondary payload on GPS III beginning with Space Vehicle (SV) 11. SAR/GPS fills validated National Search and Rescue Committee requirements to provide enduring, space-based distress alerting capability to detect, locate, and relay distress alerts to fulfill its responsibilities under international agreements for Search and Rescue.

In addition, the USAF has on-going requirements to rescue US Military personnel in harm's way per Air Force Doctrine Document 2-1.6. The implementation of a US Mid Earth Orbiting Search and Rescue Space Segment is via a Canadian-Provided 406 MHz SAR repeater on GPS III SVs. This system presents a cost effective, low-risk opportunity that accommodates existing and planned 406 MHz beacons across the globe. Per NSPD-39, USAF and USCG, the US operators of the civil COSPAS/SARSAT system and the international search and rescue system, share costs (50/50) associated with integrating the Canadian provided SAR repeater to GPS III beginning with SV11. Costs presented in this document represent the USAF 50% Share.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
Title: SAR/GPS	1.795	2.668	1.434
Description: Nonrecurring costs for systems engineering activities to integrate the payload onto the GPS III SVs starting with SV11.			
FY 2013 Accomplishments: Continued design and development of SAR/GPS antennas, associated hardware and cabling, and space vehicle software; system engineering associated with integrating SAR payload onto the GPS III SVs; enterprise-level System Engineering, Integration, Test, and Program Management (SEIT/PM); completed an approved delta Preliminary Design Review (dPDR) for integrating the SAR/GPS design. Costs do not include development and production of Canadian payload unit.			
FY 2014 Plans: Design and develop SAR/GPS antennas, associated hardware and cabling, and space vehicle software; system engineering associated with integrating SAR payload onto the GPS III SVs; system engineering and program management (SE/PM), associated with integrating SAR payload onto the GPS III SVs; enterprise-level SEIT/PM; and interface control work; continuing to mature the design to culminate into a Critical Design Review in FY16. Costs do not include development and production of Canadian payload unit.			
FY 2015 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force		Date: March 2014
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0305265F / *GPS III Space Segment*	**Project (Number/Name)** 676007 / *DASS Integration, GPS*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
Continue to design and develop SAR/GPS antennas, associated hardware and cabling, and space vehicle software; systems engineering associated with integrating SAR payload onto the GPS III SVs; enterprise-level SEIT/PM; continue to mature the design to culminate into a Critical Design Review in FY16. Costs do not include development and production of Canadian payload unit.			
Accomplishments/Planned Programs Subtotals	1.795	2.668	1.434

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• MPAF: BA05: Line Item # GPSIII: *GPS III TOA*	492.260	450.238	292.397	-	292.397	414.982	854.612	814.663	914.139	4,782.520	9,015.811
• USCG: *U.S. Coast Guard*	2.915	2.915	2.915	-	2.915	2.915	2.915	2.915	2.915	5.830	26.235
• NGA: *National Geospatial-Intelligence Agency*	0.078	0.100	0.200	-	0.200	1.000	1.500	1.500	1.500	4.900	10.778

Remarks

D. Acquisition Strategy

SAR/GPS will be integrated as part of the GPS III program and follows the GPS III acquisition strategy with funding provided by USCG and USAF.

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 2015 Air Force			Date: March 2014
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0305265F / *GPS III Space Segment*	Project (Number/Name) 676007 / *DASS Integration, GPS*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Search and Rescue SAR/ GPS	C/CPIF	Lockheed Martin : Newtown, PA	2.143	1.795	Dec 2012	2.668	Dec 2013	1.434	Dec 2014	-		1.434	5.329	13.369	-
		Subtotal	2.143	1.795		2.668		1.434		-		1.434	5.329	13.369	-

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	-	-		-		-		-		-	-	-	-

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	-	-		-		-		-		-	-	-	-

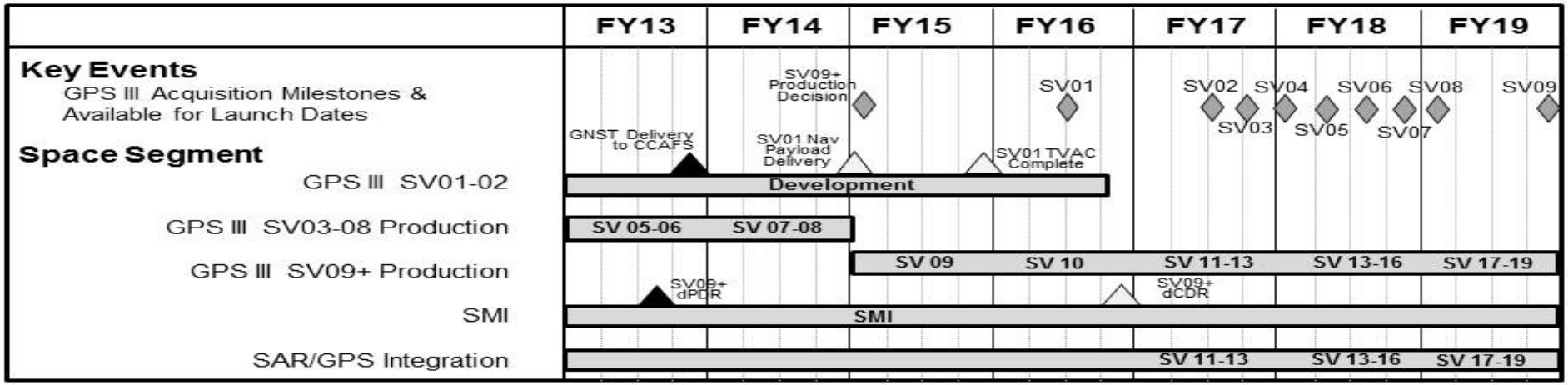
Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	-	-		-		-		-		-	-	-	-

	Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	2.143	1.795		2.668		1.434		-		1.434	5.329	13.369	-

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force		Date: March 2014
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0305265F / *GPS III Space Segment*	**Project (Number/Name)** 676007 / *DASS Integration, GPS*



CDR – Critical Design Review
CCAFS – Cape Canaveral Air Force Station
d – Delta
GNST – GPS Non-flight Satellite Test Bed
PDR – Preliminary Design Review
SMI – Space Modernization Initiative
SAR – Search and Rescue
SV – Space Vehicle
TVAC – Thermal Vacuum

Exhibit R-4A, RDT&E Schedule Details: PB 2015 Air Force		Date: March 2014
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0305265F / *GPS III Space Segment*	**Project (Number/Name)** 676007 / *DASS Integration, GPS*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
GPS III SV 09+ Delta Preliminary Design Review (dPDR)	3	2013	3	2013
GPS III SV09+ Follow-On Production Decision	1	2015	1	2015
GPS III SV 09+ Delta Critical Design Review (dCDR)	4	2016	4	2016

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force			Date: March 2014
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0305265F / *GPS III Space Segment*	Project (Number/Name) 67A019 / *GPS III*	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
67A019: *GPS III*	1,706.476	280.085	198.316	211.137	-	211.137	166.277	77.129	76.022	77.469	50.884	2,843.795
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

GPS III is the next generation Space Vehicle (SV) supporting the GPS constellation. GPS III SVs will deliver significant enhancements, including a new civil (L1C) Galileo-compatible signal, enhanced anti-jam power, and a growth path to full warfighter capabilities. GPS III SV03-08 is in the Production & Deployment Phase.

Funds in this project are for GPS III SV01-08 design and development and will support research, development, test and evaluation of GPS III SV01-02, and risk-reducing simulators through a structured systems engineering approach that matures and delivers space vehicles for launch. Space Modernization Initiatives (SMI) focuses on space vehicle affordability and capability, addresses future requirements and resilience needs, and expands the industrial base to enhance future competition. For example, this includes the initial systems design work for incorporating space vehicle technology improvements on items such as second source atomic clocks, smart solar cells that provides 30% more efficiency, alternate transmitter assembly that provides increased power efficiency at a reduced recurring cost, lithium ion batteries which address battery obsolescence issues and also offer a substantial weight savings, and a dual space-ground link system (SGLS)/Unified S-Band (USB) communication channel to be compliant with the USB interface.

Additionally, the program includes enterprise studies and analyses, trade studies, system development, test and evaluation efforts, integrated logistics support products, on-orbit support, and mission operations supporting civil applications that protect U.S. military and allies' use of GPS.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
Title: GPS III SV01-2	225.649	183.722	162.955
Description: Development, test and evaluation of two GPS III space vehicles and associated simulators, engineering studies and analyses, trade studies, system development, test and evaluation efforts, and integrated logistics support products.			
FY 2013 Accomplishments: Continued GPS III Space Vehicle (SV) development, SE&I, technical and program support. Completed flight software (FSW) qualification for the on-board computer, delivered SV01 and SV02 communication flight units, and the GPS Non-Flight Satellite Testbed (GNST) mate of system and core modules. Delivered GPS Satellite Simulators (GSS), and shipped GNST to Cape Canaveral Air Force Station (CCAFS).			
FY 2014 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force		Date: March 2014
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0305265F / *GPS III Space Segment*	**Project (Number/Name)** 67A019 / *GPS III*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
Continue GPS III SV development, SE&I, technical and program support. Decrease in funding due to the continued burn down of the GPS III development program, primarily in the GPS III SV01 Navigation Payload. ***FY 2015 Plans:*** Continue GPS III space vehicle development, SE&I, technical and program support. Deliver SV01 Navigation Payload Element (NPE). Complete SV01 Thermal Vacuum (TVAC) testing and complete all qualification testing.			
Title: Space Modernization Initiative (SMI) ***Description:*** Development activities to support the integration of redesigned NDS payload and SAR/GPS. GPS III SMI addresses issues related to design, systems engineering, program management, obsolescence, and efficiencies for GPS SV09+. Focus is on capability maturation and risk reduction. ***FY 2013 Accomplishments:*** Addressed affordability/obsolescence issues and initial system designs of future capabilities, capability maturation and risk reduction efforts. Additional activities included large solar cell, lithium ion life testing, new hosted payload integration, and dual band capability work. GPS III SV09+ completed a delta Preliminary Design Review (dPDR) in April 2013 for future GPS III SVs. ***FY 2014 Plans:*** N/A ***FY 2015 Plans:*** Continue integration activities to support NDS, and SAR/GPS. Address affordability/obsolescence issues and initial system designs of future capabilities, capability maturation and risk reduction efforts. Complete delta Critical Design Review (dCDR) activities to assess design maturity for the implementation of technology improvements for items such as clocks, Lithium ion batteries, alternate transmitter assembly, dual space-ground link system communication channel for USB interface.	43.400	-	32.900
Title: Systems Engineering/Launch/On-Orbit Support & Testing ***Description:*** Support costs include such activities as development of Launch & Checkout System (LCS) to ensure space and ground communications, on-orbit checkout, storage, testing, and system engineering. ***FY 2013 Accomplishments:*** Continued systems engineering and integration support to the development of SV01-02. Supported GNST pathfinding at CCAFS and Evolved Expendable Launch Vehicle (EELV) early integration and mission unique items to support launch processing. Continued processing and technical support for the launch processing facility at CCAFS. ***FY 2014 Plans:*** Continue systems engineering and integration support to the development of SV01-02. Evolved Expendable Launch Vehicle (EELV) early integration and mission unique items to support launch processing. Continue development of GPS Launch and	11.036	14.594	15.282

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force		Date: March 2014
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0305265F / *GPS III Space Segment*	**Project (Number/Name)** 67A019 / *GPS III*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
Checkout System (LCS) to command and control GPS III SVs after launch. Continue processing and technical support for the launch processing facility at CCAFS. ***FY 2015 Plans:*** Continue systems engineering and integration support to the development of SV01-02, and Evolved Expendable Launch Vehicle (EELV) early integration and mission unique items to support launch processing. Complete development of GPS Launch and Checkout System (LCS) to command and control the GPS III SVs after launch. Continue processing and technical support for the launch processing facility at CCAFS.			
Accomplishments/Planned Programs Subtotals	280.085	198.316	211.137

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• MPAF: BA05: Line Item # GPSIII: *GPS III TOA*	492.260	450.238	292.397	-	292.397	414.982	854.612	814.663	914.139	4,782.520	9,015.811
• DOT: *DOT (FAA) Civil Funding*	6.400	-	-	-	-	-	-	-	-	-	6.400

Remarks

D. Acquisition Strategy

The GPS III next generation space segment rapidly and affordably responds to warfighter capability requirements. The acquisition approach utilizes a disciplined systems engineering approach which focuses on mitigating cost and schedule risk through a lower risk incremental delivery of mature technologies. This approach focuses on mission success and on time delivery. The GPS III SVs will have GPS IIF capabilities plus up to a 3x-8x increase in anti-jam signal power, 3x improved accuracy, 3+ year increased design life, a new civil (L1C) signal compatible with the European Galileo system and a satellite bus capable of supporting future SV capability additions.

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 2015 Air Force			Date: March 2014
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0305265F / *GPS III Space Segment*	Project (Number/Name) 67A019 / *GPS III*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Block III Development	C/CPIF	Lockheed Martin : Newtown, PA	1,452.720	204.253	Feb 2013	164.685	Dec 2013	138.951	Dec 2014	-		138.951	91.528	2,052.137	-
Enterprise Studies	C/CPAF	SAIC : Huntington Beach, CA	26.444	4.743	Mar 2013	3.074	Dec 2013	3.182	Nov 2014	-		3.182	2.939	40.382	-
Modernization/SE & Technical Support	Various	Various : Various,	92.487	-		-		-		-		-	-	92.487	-
Launch & Checkout System (LCS)	C/CPIF	Raytheon : Aurora, CO	19.000	-		5.000	Jan 2014	4.000	Jan 2015	-		4.000	3.000	31.000	-
Launch Services	C/CPFF	ULA : Centennial, CO	1.058	1.360	Apr 2013	1.270	Mar 2014	0.240	Mar 2015	-		0.240	2.369	6.297	-
Launch Support	RO	45th : Cape Canaveral, FL	0.160	1.245	Apr 2013	1.300	Mar 2014	2.160	Mar 2015	-		2.160	4.975	9.840	-
SMI	C/CPIF	Lockheed : Newtown, PA	0.000	43.400	Mar 2013	-	Dec 2013	32.900	Dec 2014	-		32.900	338.287	414.587	-
		Subtotal	1,591.869	255.001		175.329		181.433		-		181.433	443.098	2,646.730	-

Remarks

SMI funding in FY12 is captured in the prime contractor line. Starting in FY13, SMI is broken out separately.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	-	-		-		-		-		-	-	-	-

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
T&E	Various	Various : ,	0.871	3.688	May 2013	3.950	May 2014	5.700	May 2015	-		5.700	-	14.209	-
		Subtotal	0.871	3.688		3.950		5.700		-		5.700	-	14.209	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Air Force		Date: March 2014
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0305265F / *GPS III Space Segment*	**Project (Number/Name)** 67A019 / *GPS III*

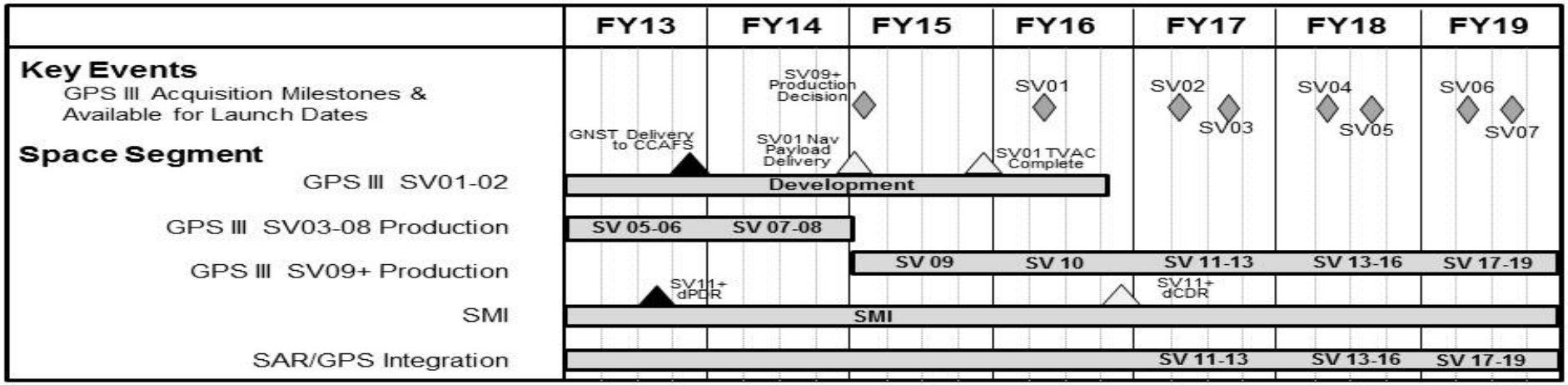
Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Office Engineering Support (FFRDC)	RO	Aerospace : El Segundo, CA	36.692	12.140	Jan 2013	8.733	Dec 2013	12.000	Dec 2014	-		12.000	4.683	74.248	-
PMA	Various	Various : Various,	77.044	9.256	Apr 2013	10.304	Apr 2014	12.004	Apr 2015	-		12.004	-	108.608	-
		Subtotal	113.736	21.396		19.037		24.004		-		24.004	4.683	182.856	-

	Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	1,706.476	280.085		198.316		211.137		-		211.137	447.781	2,843.795	-

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force		Date: March 2014
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0305265F / *GPS III Space Segment*	**Project (Number/Name)** 67A019 / *GPS III*



CDR – Critical Design Review	PDR – Preliminary Design Review	TVAC – Thermal Vacuum
CCAFS – Cape Canaveral Air Force Station	SMI – Space Modernization Initiative	
d – Delta	SAR – Search and Rescue	
GNST – GPS Non-flight Satellite Test Bed	SV – Space Vehicle	

Exhibit R-4A, RDT&E Schedule Details: PB 2015 Air Force		Date: March 2014
Appropriation/Budget Activity 3600 / 7	**R-1 Program Element (Number/Name)** PE 0305265F / *GPS III Space Segment*	**Project (Number/Name)** 67A019 / *GPS III*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
GPS III SV 09+ Delta Preliminary Design Review (dPDR)	3	2013	3	2013
GPS Non-Flight satellite test-bed (GNST) delivery to CCAFS	4	2013	4	2013
GPS III SV 09+ Follow-on Production Decision	1	2015	1	2015
GPS III Space Vehicle (SV) 01 Navigation Payload Delivered	1	2015	1	2015
GPS III Space Vehicle SV01 Complete Thermal Vacuum Testing	4	2015	4	2015
GPS III Satellite Vehicle SV01 available for launch	2	2016	2	2016
GPS III SV 11+ Delta Critical Design Review (dCDR)	4	2016	4	2016
GPS III SV02 available for launch	2	2017	2	2017