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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 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0305164F: NAVSTAR Global Positioning System User Equipment Space							
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	-	-	96.840	-	96.840	125.926	122.756	153.727	160.714	Continuing	Continuing
643833: MILITARY GLOBAL POSITIONING SYSTEM USER EQUIP	-	-	96.840	-	96.840	125.926	122.756	153.727	160.714	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

A. Mission Description and Budget Item Justification

The Global Positioning System (GPS) is a space-based radio Positioning, Navigation, and Time (PNT) distribution system. GPS User Equipment (UE) consists of standardized receivers, antennas, antenna electronics, etc., grouped together in sets to derive navigation and time information transmitted from GPS satellites. These receiver sets are used by DoD. RDT&E funds UE development, test, and analysis for new PNT receiver capabilities in Navigation Warfare (Navwar) across all military platforms using GPS services.

The Military GPS User Equipment (MGUE) program is responsible for the development of standard modernized receiver form factors for the service-nominated lead platforms identified in the draft MGUE Capability Development Document (CDD). This new family of modernized GPS receivers will enhance existing and deliver improved capabilities to counter current and emerging Positioning, Navigation, and Timing (PNT) threats and enable military operations in a Navigation Warfare (NAVWAR) environment where current legacy receiver performance would be compromised.

This program is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P) because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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B. Program Change Summary (\$ in Millions)				FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total			
Previous President's Budget				-	-	-	-	-			
Current President's Budget				-	-	96.840	-	96.840			
Total Adjustments				-	-	96.840	-	96.840			
• Congressional General Reductions				-	-						
• Congressional Directed Reductions				-	-						
• Congressional Rescissions				-	-						
• Congressional Adds				-	-						
• Congressional Directed Transfers				-	-						
• Reprogrammings				-	-						
• SBIR/STTR Transfer				-	-						
• Other Adjustments				-	-	96.840	-	96.840			
Change Summary Explanation											
Starting in FY13, Military GPS User Equipment (MGUE) funding is transferred to this project in PE 0305164F.											
C. Accomplishments/Planned Programs (\$ in Millions)							FY 2011	FY 2012	FY 2013		
Title: MGUE							-	-	96.840		
Description: The Military GPS User Equipment (MGUE) program will develop standard modernized receiver form factors for the service-nominated lead platforms identified in the draft MGUE Capability Development Document (CDD).											
FY 2013 Plans: Execute the Technology Development phase MGUE Increment 1 contracts with the completion of the System Requirements Review (SRR) and System Design Review (SDR). Conduct efforts for MGUE Increment 2 early engineering analysis. Provide program and technical support as well as receiver testing, integration and security/performance certification efforts.											
Accomplishments/Planned Programs Subtotals							-	-	96.840		
D. 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
• P-42: OPAF, PE 0305164F, NAVSTAR GPS Space	5.151	2.008	2.031	0.000	2.031	2.061	2.093	2.131	2.169	2.200	188.563

PE 0305164F: NAVSTAR Global Positioning System User Equipment
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APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0305164F: NAVSTAR Global Positioning System User Equipment Space

D. 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-198: RDT&E,AF, PE 0305164F, NAVSTAR GPS User Equipment Space	155.778	131.832	29.621	0.000	29.621	0.000	0.000	0.000	0.000	0.000	1,266.878

E. Acquisition Strategy

The MGUE program has developed a comprehensive acquisition strategy to provide modernized GPS capabilities to US and Allied forces by: (a) establishing time-certain and low risk development; (b) bounding requirements to leverage mature technology to the maximum extent possible; (c) focusing on the development of form factors based on well-defined standards to support lead platform integration; (d) introducing the Common GPS Module (CGM) to support long term vision and modernized capabilities for non-lead platform and unique applications providing a secure, common core GPS capability to a broader range of military applications; and (e) implementing a proactive, collaborative MGUE Platform integration activity to mitigate risk and reduce cost for DoD modernization.

F. 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.

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Air Force		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0305164F: <i>NAVSTAR Global Positioning System User Equipment Space</i>	PROJECT 643833: <i>MILITARY GLOBAL POSITIONING SYSTEM USER EQUIP</i>

PE 0305164F: *NAVSTAR Global Positioning System User Equipment*
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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Air Force			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0305164F: <i>NAVSTAR Global Positioning System User Equipment Space</i>	PROJECT 643833: <i>MILITARY GLOBAL POSITIONING SYSTEM USER EQUIP</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Milestone A	2	2012	2	2012
MGUE Increment 1 Contract Award (x3)	3	2012	3	2012
System Design Review (SDR)	2	2013	2	2013
JROC Capabilities Development Document (CDD) Approval	2	2013	2	2013
Milestone B	3	2014	3	2014
MGUE Source Selection	4	2013	3	2014