Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army										DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 4: *Advanced Component Development & Prototypes (ACD&P)*				R-1 ITEM NOMENCLATURE PE 0603308A: *Army Space Systems Integration*							
COST ($ in Millions)	**FY 2010**	**FY 2011**	**FY 2012 Base**	**FY 2012 OCO**	**FY 2012 Total**	**FY 2013**	**FY 2014**	**FY 2015**	**FY 2016**	**Cost To Complete**	**Total Cost**
Total Program Element	126.189	27.551	9.612	-	9.612	23.336	17.746	17.984	11.827	Continuing	Continuing
978: *SPACE CONTROL*	96.382	11.858	-	-	-	13.168	7.107	7.229	1.389	Continuing	Continuing
990: *Space and Missile Defense Integration*	29.807	15.693	9.612	-	9.612	10.168	10.639	10.755	10.438	Continuing	Continuing

Note

FY10: Funds realighned ($4100) to High Altitude Long Endurance - Demonstrator (HALE-D)

FY12: Space Control Funding in the amount of $15,609 realigned to PE 0604131, Project DT1. ($8117) realigned to higher priority requirements.

A. Mission Description and Budget Item Justification

The program element funds space systems integration efforts performed by the US Army Space and Missile Defense Command/ Army Forces Strategic Command (USASMDC/ARSTRAT) and the Program Executive Office for Intelligence, Electronic Warfare, and Sensors (PEO IEW&S).

USASMDC/ARSTRAT: Headquarters, Department of the Army General Order Number 37, dated 16 October 2006, designated USASMDC/ARSTRAT as the Army proponent for space and ground-based midcourse defense (GMD), the Army integrator for global missile defense, and the Army Service Component Command of U.S. Strategic Command (USSTRATCOM). As such, USASMDC/ARSTRAT is responsible to develop warfighting concepts, conduct warfighting experiments to validate those concepts, identify capabilities needed to implement the validated concepts, and develop Doctrine, Organization, Training, Material, Leadership & Education, Personnel and Facilities (DOTMLPF) solutions to realize those space related capabilities. Army Regulation (AR) 10-87 Army Commands, Army Service Component Commands, and the Direct Reporting Units, dated 4 September 2007 and AR 5-22 The Army Force Modernization Proponent System dated 19 August 2009 designates USASMDC/ARSTRAT as the Army specified proponent for Global Missile Defense and Space/High Altitude Capabilities.

Project #990 funds USASMDC/ARSTRAT to mature warfighting concepts, and validate concepts, identify capabilities need to implement the validated concepts, and develop DOTMLPF solutions to realize those space and high altitude related capabilities. Also sustains Joint Friendly Force Tracking (J-FFT) Mission Management Center and its associated testbed for both operations and spiral development for 24/7 Friendly Force Tracking integration into a real-time common operating picture for Combatant Commanders, Joint Task Force Commanders and Coalition partners.

Project # 978 funds Space Control capabilities. The PEO Intelligence, Electronic Warfare, and Sensors (PEO IEW&S) is the Milestone Decision Authority for the Project 978 Space Control Materiel Development Effort. This effort is utilizing competitive prototyping to develop a forward-deployed platform to generate, receive, monitor, analyze and store satellite communications in direct support of the ground force Commander. System mobility (using government-off-the-shelf (GOTS) tactical vehicles such as the potential Joint Light Tactical Vehicle (JLTV) or Mine Resistant Ambush Protected (MRAP)) will enable the system to move to positions of geographical advantage to establish and maintain assured space data access and information superiority in support of Brigade tactical operations. As the Army Proponent for Space, the Commander, US Army Space and Missile Command/ Army Forces Strategic Command (USASMDC/ARSTRAT), stated that this Acquisition Program has a higher priority than any other space control investment.

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603308A: *Army Space Systems Integration*	

B. Program Change Summary ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	118.610	27.551	33.338	-	33.338
Current President's Budget	126.189	27.551	9.612	-	9.612
Total Adjustments	7.579	-	-23.726	-	-23.726
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	4.100	-			
• SBIR/STTR Transfer	3.479	-			
• Other Adjustments 1	-	-	-23.726	-	-23.726

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603308A: *Army Space Systems Integration*	PROJECT 978: *SPACE CONTROL*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
978: *SPACE CONTROL*	96.382	11.858	-	-	-	13.168	7.107	7.229	1.389	Continuing	Continuing
Quantity of RDT&E Articles											

Note

FY 2011-2015 funding for the Long Endurance Multi-Intelligence Vehicle (LEMV) was moved from program element (PE) 0603308A to 0305205A.

FY12-16 funding for Space Control Project 978 moved to PE 0604131, Project DT1

A. Mission Description and Budget Item Justification

Tactical Data Terminals (Space), a Program Office assigned to the PEO for Intelligence, Electronic Warfare, and Sensors (PEO IEW&S) is developing a mobile, ground-based, tactically-centric space information superiority capability to meet Joint Requirements and validated Training and Doctrine Command (TRADOC) capability gaps. The system is a forward-deployed platform to generate, receive, monitor, analyze and store satellite communications in direct support of the ground force Commander. The system is centered on a Modular and Open System Approach (MOSA) that will enhance (less time, less cost) future upgrades to meet emerging space capabilities. System mobility (using government-off-the-shelf (GOTS) tactical vehicles such as the potential Joint Light Tactical Vehicle (JLTV) or the Mine Resistant Ambush Protected (MRAP)) will enable the system to move to positions of geographical advantage to establish and maintain assured space data access and information superiority in support of Brigade tactical operations.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: Space Control - Technology Development	12.586	11.858	-
Articles:	0	0	
Description: Funding is provided for the following effort			
FY 2010 Accomplishments: Performed risk reduction and technology maturation of sub-system competitive prototypes to Technology Readiness Level 6. Funds were also used for Program Management Office support and Security.			
FY 2011 Plans: Perform risk reduction and technology maturation of competitive system prototypes to Technology Readiness Level 6. Complete Request for Proposal and prepare to openly compete the Engineering and Manufacturing Development Phase contract. Funds also used for Program Management Office support and Security.			
Title: LEMV Plans and Strategies	2.880	-	-
Articles:	0		

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603308A: *Army Space Systems Integration*	PROJECT 978: *SPACE CONTROL*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Description: Funding is provided for the following effort ***FY 2010 Accomplishments:*** LEMV - Develop and maintain LEMV program plans and strategies. Program management for LEMV materiel development and acquisition planning, testing, and initial demonstration planning.			
Title: LEMV system architectural requirements	4.320	-	-
Articles:	0		
Description: Funding is provided for the following effort ***FY 2010 Accomplishments:*** LEMV - Define LEMV system architectural requirements and coordinate with combat developer on concept of operations. Coordinate with other Services on technology development. Conduct system engineering and trade studies on viable concepts. Identify risk areas in technical performance, sustainability, cost and schedule. Develop materiel acquisition documentation to support milestone decisions and contracting actions			
Title: LEMV risk reduction efforts	5.760	-	-
Articles:	0		
Description: Funding is provided for the following effort ***FY 2010 Accomplishments:*** LEMV - Conduct risk reduction efforts that include prototyping system representative command and control sub-elements to validate critical command and control connectivity and battle management functional processes early in development to show successful demonstration. Engineering testing includes characterization and demonstration of sub-system interfaces, demonstrations/validations of sub-subsystem functional interactions, validation of technology integration and performance objectives for sub-system processors, and collection of supportability related data required for development of the integrated logistic support package. Sub-system testing will be conducted to validate technology maturity.			
Title: LEMV Developmental/Operational testing and sustainment	70.836	-	-
Articles:	0		
Description: Funding is provided for the following effort ***FY 2010 Accomplishments:***			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011
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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
LEMV - Award contract, design and fabricate platform, payload and ground station, conduct Preliminary Design Review and Critical Design Reviews, Developmental/Operational testing and sustainment.			
Accomplishments/Planned Programs Subtotals	96.382	11.858	-

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

The Product entered the Technology Development (TD) Phase in 3QFY09 following a successful Material Development Decision and Milestone A. The Program Office leveraged a Small Business Set Aside Competition to award two competitive prototype contracts. The Program is managing the competitive prototype contracts and leveraging Army and Other Government Agency Science & Technology efforts to retire maximum risk (cost, schedule, and performance) prior to competing and awarding a contract in support of the Engineering and Manufacturing Development (EMD) Phase.

In FY12, the Product Office will complete Developmental Testing for the TD Phase (proving Technology is at TRL 6) and finalize documentation and entry criteria to support a subsequent Milestone B decision. Intent of the Acquisition Strategy is to capitalize on Open competition for the EMD contract with a goal of maximizing fixed price incentive firm (FPIF) contracts for post Milestone B efforts and firm-fixed-pricing (FFP) for production.

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603308A: *Army Space Systems Integration*	PROJECT 978: *SPACE CONTROL*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Space Control - Program and Security Management	Various	Program Management and Security Oversight:AL	4.071	2.176		-		-		-	Continuing	Continuing	Continuing
Space Control - Security Facilities Upgrade	TBD	Various:Various	0.362	-		-		-		-	Continuing	Continuing	Continuing
		Subtotal	4.433	2.176		-		-		-			

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Space Control - Systems and technical architectures	Various	Various:Varous	0.378	-		-		-		-	Continuing	Continuing	Continuing
Space Control - Concept Development and Engineering Trade Studies	Various	Various:Various	3.674	-		-		-		-	Continuing	Continuing	Continuing
Space Control - Perform sub-system risk reduction, testing, and validation	C/CPIF	2 X Competitive Prototypes:CO, FL, PA	0.951	0.326		-		-		-	Continuing	Continuing	Continuing
Space Control - Perform design, Development and sub-system integration	C/CPIF	Competitive Prototypes:CO, FL, PA	9.529	4.421		-		-		-	Continuing	Continuing	Continuing
LEMV - Systems and technical architectures	C/CPIF	Various:Various	4.320	-		-		-		-	Continuing	Continuing	Continuing
LEMV - Concept development and engineering trade studies	C/CPIF	Various:Various	2.880	-		-		-		-	Continuing	Continuing	Continuing
LEMV - Sub-system risk reduction, testing, and validation	C/CPIF	Various:Various	5.760	-		-		-		-	Continuing	Continuing	Continuing
LEMV - Design, development, and sub-system integration	C/CPIF	Various:Various	56.394	-		-		-		-	Continuing	Continuing	Continuing
		Subtotal	83.886	4.747		-		-		-			

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603308A: *Army Space Systems Integration*	PROJECT 978: *SPACE CONTROL*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Space Control - Government support and support contracts	C/FFPLOE	Program Management Office Functions:AL, CO	2.748	3.957		-		-		-	Continuing	Continuing	Continuing
LEMV - Government support and support contracts	C/FFPLOE	Various:Various	8.000	-		-		-		-	Continuing	Continuing	Continuing
		Subtotal	10.748	3.957		-		-		-			

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Space Control - Test & Evaluation Support	Various	Developmental and Operational Testing:Various	2.903	0.978		-		-		-	Continuing	Continuing	Continuing
		Subtotal	2.903	0.978		-		-		-			

	Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	101.970	11.858		-		-		-			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Army		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 ITEM NOMENCLATURE** PE 0603308A: *Army Space Systems Integration*	**PROJECT** 978: *SPACE CONTROL*

	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
LEMV - Sub-System Risk Reduction, Testing and Validation																												
LEMV - Design, Development, and Sub-System Integration																												

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Army		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 ITEM NOMENCLATURE** PE 0603308A: *Army Space Systems Integration*	**PROJECT** 978: *SPACE CONTROL*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
LEMV - Sub-System Risk Reduction, Testing and Validation	1	2010	3	2010
LEMV - Design, Development, and Sub-System Integration	1	2010	3	2010

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603308A: *Army Space Systems Integration*	PROJECT 990: *Space and Missile Defense Integration*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
990: *Space and Missile Defense Integration*	29.807	15.693	9.612	-	9.612	10.168	10.639	10.755	10.438	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

Project 990 funds United States Army Space and Missile Command/ Army Strategic Command (USASMDC/ARSTRAT) efforts to develop, analyze and mature warfighting concepts, focus military science and technology research, and conduct warfighting experiments for space and high altitude capabilities. The program also funds development and integration of new data sources and data services into the Joint Friendly Force Tracking Mission Management Center. . USASMDC/ ARSTRAT is the proponent for space / high altitude capabilities and is responsible for determining and integrating Doctrine, Organization, Training, Materiel, Leadership & Education, Personnel and Facilities (DOTMLPF) for the Army.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: Concept Development, Wargames and Demonstrations	7.518	15.693	4.240
Articles:	0	0	
Description: Funding is provided for the following effort			
FY 2010 Accomplishments: Supported the JCIDS process providing solutions that consider innovations involving doctrine, organization, training, materiel, leadership and education, personnel and facilities (DOTMLPF). Evaluated capability gaps in the context of strategic direction for the total US military force and influence the direction of space, missile defense, high altitude, and cyber requirements earlier in the acquisition process. Planed, developed, and executed concepts and DOTMLPF solutions for Army exploitation of space systems, space control capabilities, ballistic missile defense and high altitude systems. Represented Army positions and defend Army equities relative to Joint/DoD and inter-Service activities; e.g., National Security Space Architect (NSSA) Program Assessments, etc. Develop space modernization strategies and sponsor exploration of future space, high altitude, and missile defense warfighting concepts			
FY 2011 Plans: Participate in updates to Army Capstone, Operational and Functional Concepts involving Army systems and operations. Participate and provide support to all Unified Quest wargames and experiments to ensure that Space and High Altitude capabilities are correctly represented, and those issues with the Army?s use of these capabilities are explored.			
FY 2012 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011
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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Continue to plan, develop, and execute concepts and combat development solutions for Army integration of space systems, space control capabilities, missile defense and high altitude systems. Represent Army positions and defend Army equities relative in Joint/DoD and inter-Service activities; e.g., National Security Space Architect (NSSA) Program Assessments, etc. Participate and provide support to all Unified Quest and other wargames and experiments to ensure that space and high altitude capabilities gaps are identified and capabilities are correctly represented, so that the Army?s use of these capabilities are explored. Develop space modernization strategies and sponsor exploration of future space, high altitude, and missile defense warfighting concepts.			
Title: Congressional Adds ***Articles:*** ***Description:*** Funding is provided for the following effort ***FY 2010 Accomplishments:*** Includes FY09/FY10 Congressional Adds for Advanced Power Technologies for Nano-Satellites, Army Responsive Tactical Space, Geospatial Airship Research Platform (GARP), High Altitude Airship, High Altitude Integration Testbed, High Altitude Shuttle System for Battlespace Coverage, High Fidelity Imaging System, HiSentinel Stratospheric Airship, Low Cost Interceptor, Missile Attack Early Warning System, Multipurpose Nanosat Missile System, Nanocomposite Enhanced Radar and Aerospace Materials, Positron for Capture and Storage, Positron Sensors and Energy Applications, Small Agile Satellites, and Tactical Overwatch High Altitude System.	11.699 0	-	-
Title: High Altitude Long Endurance Demonstrator (HALE-D) ***Articles:*** ***Description:*** Funding is provided for the following effort ***FY 2010 Accomplishments:*** High Altitude Long Endurance Demonstrator (HALE-D)	4.100 0	-	-
Title: Space and High Altitude System Integration and Experimentation ***Articles:*** ***Description:*** Funding is provided for the following effort ***FY 2010 Accomplishments:*** Completed Capability Description Document for Space Superiority.	2.292 0	-	1.732

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603308A: *Army Space Systems Integration*	PROJECT 990: *Space and Missile Defense Integration*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Experimented at the request of USSTRATCOM with the use of Very Small Aperture Terminals for space superiority applications. Integrated Space Operations System software capabilities into Defense Common Ground Station-Army (DCGS-A) platforms. Completed prototype Army Space Knowledge Management System. Continued development of the Joint Space Tactical Planning applications. Developed architecture and ground station prototypes, and experimented with use of residual satellite communications capability using a satellite launched into the wrong orbit. Planned for and participated in the operational utility assessment of the Long Endurance Multi-Int (LEMV) system. Completed Capability Description Document for Persistent Platforms. ***FY 2012 Plans:*** Continue experimentation in support of operational responsive space. Complete migration of Space Operations System capabilities to both classified and unclassified DCGS-A variants.			
Title: Joint Friendly Force Tracking (J-FFT) Testbed ***Articles:*** ***Description:*** Funding is provided for the following effort ***FY 2010 Accomplishments:*** Sustained J-FFT Testbed, which integrates new techniques, data sources and data services into the J-FFT Mission Management Center (MMC). The MMC injects real-time FFT information into the Common Operating Picture for COCOMs, JTFs and Coalition partners. Supported development of FFT capabilities for Afghan National Forces. ***FY 2012 Plans:*** Provide J-FFT support to the J-FFT MMC integrating new technical and procedure capabilities for the operational system.	4.198 0	-	3.640
Accomplishments/Planned Programs Subtotals	29.807	15.693	9.612

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

Not applicable for this effort.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603308A: *Army Space Systems Integration*	PROJECT 990: *Space and Missile Defense Integration*

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.