	ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)									February 2005			
BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes  PE NUMBER AND TITLE  060330 A - Army Missile Defense Systems Integrat (Dem/Val)									tion				
	COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost		
	Total Program Element (PE) Cost	34668	32131	9284	14805	13409	16266	23012	23662	0	217735		
978	SPACE CONTROL	948	926	957	2734	6196	6942	12759	12601	0	44980		
988	RANGE UPGRADES	7800	14475	0	0	0	0	0	0	0	22080		
990	SPACE AND MISSILE DEFENSE INTEGRATION	l 25920	16730	8327	12071	7213	9324	10253	11061	0	150675		

A. Mission Description and Budget Item Justification: This program element funds space and missile defense systems integration efforts performed by both the Army Space and Missile Defense Command (SMDC) and the Program Executive Office for Air, Space and Missile Defense (PEO ASMD).

SMDC: Headquarters, Department of the Army General Order Number 5, dated 1 March 1998, designated SMDC as the Army specified proponent for space and National Missile Defense (NMD), and the operational integrator for Theater Missile Defense (TMD). As such, SMDC 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, Materiel. Leader Development, Personnel and Facilities (DOTMLPF) solutions to realize those capabilities.

PEO ASMD (Project #978) - The Army Core Space Control Program formally transitioned to Program Executive Office for Air, Space and Missile Defense (PEO ASMD) from the Army Space and Missile Defense Command (SMDC) in 2003. Space Control provides capabilities that will help meet current Army Requirements Review Committee guidance, DEPSECDEF directives, USSPACECOM Space Control Capstone Requirements Document (CRD), and Army Requirements Oversight Council (AROC)-approved and Joint Requirements Oversight Council (JROC)-approved counter-surveillance and reconnaissance system Joint Initial Requirements Document (JIRD). Space Control has gained much importance with proliferation of satellite technology and the commercial availability of these technologies of potential adversaries. Adversaries will have the capability to capitalize on these assets to identify friendly activities and operations, increase their lethality and intelligence gathering efforts, and thus, reduce our survivability, agility, versatility, and information superiority. The Army Core Space Control System is a System of Systems concept consisting of sensors (to see the satellites), shooters (to deny the satellites), and an integrating battle command capability. Space Control is critical to the Future Force for survivability in that it denies adversary imaging for precision targeting, thus reducing lethality, and limiting intelligence gathering. Space Control also supports the Future Force characteristics of agility and versatility by denying adversary space-based communications and information as our forces respond to varying shifts in intensity and mission requirements.

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ARMY RDT&E BUDGET ITEM JUST	February 2005			
BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes	PE NUMBER AND TITLE 060330 A - Army Missile Defense (Dem/Val)	Systems Integration		

B. Program Change Summary	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2005)	4871	8281	11850
Current Budget (FY 2006/2007 PB)	32131	9284	14805
Total Adjustments	27260	1003	2955
Net of Program/Database Changes			
Congressional Program Reductions	-527		
Congressional Rescissions			
Congressional Increases	28600		
Reprogrammings			
SBIR/STTR Transfer	-813		
Adjustments to Budget Years		1003	2955

## Change Summary Explanation:

FY05 increase due to Congressional adds to project 988 as follows: \$9.3 million - Telecommunications Upgrades at Kodiak Launch Complex and \$5.8 million - Kodiak Range Upgrades. Project 990 Congressional adds are as follows: \$10.5 million - Low Cost Interceptor; \$2.0 million - P3 Power system and \$1.0 million -- Radar Power Technology.

FY 06 increase is for space and missile defense integration activities (Project 990).

FY07 increases are as follows: \$1.7 million for development of system designs for space control projects (Project 978) and \$.3 million for the Army to exploit space systems (Project 990).

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)								February 2005			
BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes		PE NUMBER AND TITLE  060330 A - Army Missile Defense S Integration (Dem/Val)				PROJECT <b>Systems</b>					
COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost	
978 SPACE CONTROL	948	926	957	2734	6196	6942	12759	12601	0	44980	

A. Mission Description and Budget Item Justification: The Army Core Space Control System (ACSCS) was formally transitioned to the Program Executive Office for Air, Space and Missile Defense (PEO ASMD) from the U.S. Army Space and Missile Defense Command (SMDC) in 2003. On January 13, 2005, PEO ASMD merged with the PEO, Tactical Missiles to become the PEO, Missiles and Space. The ACSCS is a space control toolkit with the initial capability to provide a ground-based space electronic warfare capability (GBSEWC); a ground-based space surveillance system (i.e., Space and Threat Surveillance (SaTS) System); a Counter Intelligence, Surveillance, and Reconnaissance (Counter ISR) System; and an integrated Battle Management, Command, Control, Communications, Computers, and Intelligence (BMC4I) System that will be developed seemlessly along with the PEO Missile and Space's System of Systems initiative. The mission of space control is to provide freedom of action in space for friendly forces and to deny the same freedom to the enemy when directed. This includes offensive and defensive operations by the Army to gain and maintain space superiority in the space region and also involves maintaining situational awareness of events in space.

Accomplishments/Planned Program	FY 2004	FY 2005	FY 2006	FY 2007
Develop and maintain Space Control program plans and strategies.	948	551	250	250
Define Space Control Architectural requirements.	0	100	257	250
Develop system designs and perform systems engineering.	0	275	450	2234
Totals	948	926	957	2734

**B. Other Program Funding Summary:** Not applicable for this item.

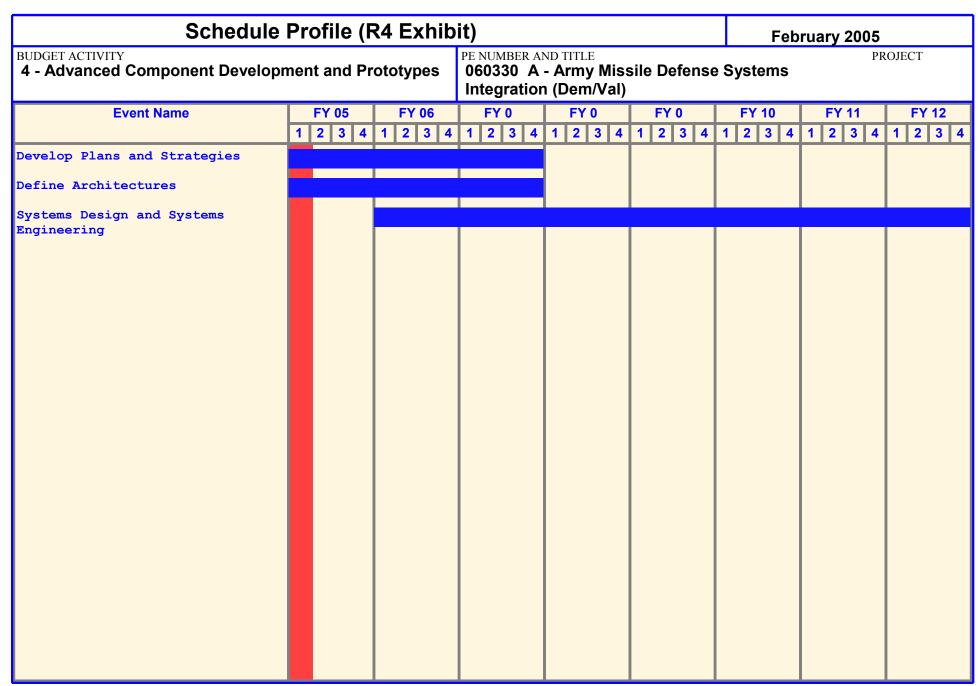
C. Acquisition Strategy: Acquisition plans for GBSEWC, SaTS, and Counter ISR will be developed in accordance with National Security Space (NSS) Acquisition Policy 03-01 and will utilize evolutionary acquisition approaches with spiral developments. These system designs will leverage any Science and Technology Objectives (STO) or Advanced Concept Technology Demonstrations (ACTDs) from various technology developers that are ready to transition into an acquisition program. Once systems are fielded, they will be retrofitted with upgraded hardware and software.

## **ARMY RDT&E COST ANALYSIS(R3)** February 2005 BUDGET ACTIVITY PE NUMBER AND TITLE PROJECT 4 - Advanced Component Development and Prototypes 060330 A - Army Missile Defense Systems Integration (Dem/Val) I. Product Development Contract Performing Activity & Total FY 2005 FY 2005 FY 2006 FY 2006 FY 2007 FY 2007 Cost To Total Target Method & Location PYs Cost Cost Award Cost Award Award Complete Cost Value of Cost Date Contract Type Date Date a . Program plans and Various Various 350 300 1-4Q 300 1-4Q 300 1-4Q 1250 strategies b . Systems and technical 150 n 877 0 Various Various 301 276 1-4Q 150 1-4Q 1-4Q architectures c. Systems engineering Various 224 250 1-4Q 307 1-4Q 1959 1-4Q 2740 0 Various and prototypes 875 826 757 2409 4867 0 Subtotal: FY 2007 Performing Activity & FY 2005 II. Support Cost Contract Total FY 2005 FY 2006 FY 2006 FY 2007 Cost To Total Target Method & PYs Cost Award Complete Value of Location Cost Award Cost Award Cost Cost Type Date Date Date Contract a. Government support 50 50 50 125 0 275 Various Various 1-4Q 1-4Q 1-4Q and support contracts 50 50 50 125 275 0 Subtotal:

	ARM	Y RDT&E CO	ST AN	ALYS	IS(R3)				Feb	ruary 200	05	
BUDGET ACTIVITY 4 - Advanced Com	ponent De	evelopment and P	es 060	PE NUMBER AND TITLE PROJECT 060330 A - Army Missile Defense Systems Integration (Dem/Val)								
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Targe Value o Contrac
a . T&E Support	Various	Various	0	0	1-4Q	100	1-4Q	150	1-4Q	0	250	(
Subtotal:			0	0		100		150		0	250	C
V. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Targe Value o Contrac
a . Administration processes	Various	Various	0	50	1-4Q	50	1-4Q	50	1-4Q	0	150	(
Subtotal:			0	50		50		50		0	150	C
Project Total Cost:			925	926		957		2734		0	5542	C

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Exhibit R-3 Cost Analysis



0603308A (978) SPACE CONTROL

Schedule Detail (R4a		February 2005						
BUDGET ACTIVITY 4 - Advanced Component Development and Proto	PE NUMBER AND TITLE PROJECT 060330 A - Army Missile Defense Systems Integration (Dem/Val)							
Schedule Detail	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Develop Plans and Strategies	1-4Q	1-4Q	1-4Q	1-4Q				
Define Architectures Systems Design and Systems Engineering	1-4Q	1-4Q	1-4Q 1-4Q	1-4Q 1-4Q	1-4Q	1-4Q	1-4Q	1-4Q

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)								February 2005				
BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes		PE NUMBER AND TITLE  060330 A - Army Missile Defense S Integration (Dem/Val)				PROJECT <b>Systems</b>						
COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost		
988 RANGE UPGRADES	7800	1447	5 0	0	0	0	0	0	0	22080		

A. Mission Description and Budget Item Justification: This project funds necessary range support for Department of Defense flight tests at Kodiak Island, Alaska. The Kodiak Launch Facility Complex is designed to provide an opportunity for demonstrating various elements potentially suitable for incorporation into ballistic missile defense system development.

Accomplishments/Planned Program	FY 2004	FY 2005	FY 2006	FY 2007
Continue range support activities	7800	14475	0	0
Totals	7800	14475	0	0

**B. Other Program Funding Summary:** Not applicable for this item.

C. Acquisition Strategy: Not applicable for this item.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)								February 2005			
BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes				PE NUMBER AND TITLE  060330 A - Army Missile Defense S  Integration (Dem/Val)				PROJECT 0			
COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost	
990 SPACE AND MISSILE DEFENSE INTEGRATION	25920	16730	8327	12071	7213	9324	10253	11061	0	150675	

A. Mission Description and Budget Item Justification: Headquarters, Department of the Army General Order Number 5, dated 1 March 1998, designated Army Space and Missile Defense Command (SMDC) as the Army specified proponent for space. As such, SMDC 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, Materiel, Leader Development, Personnel and Facilities (DOTMLPF) solutions to realize those capabilities. This project supports these efforts.

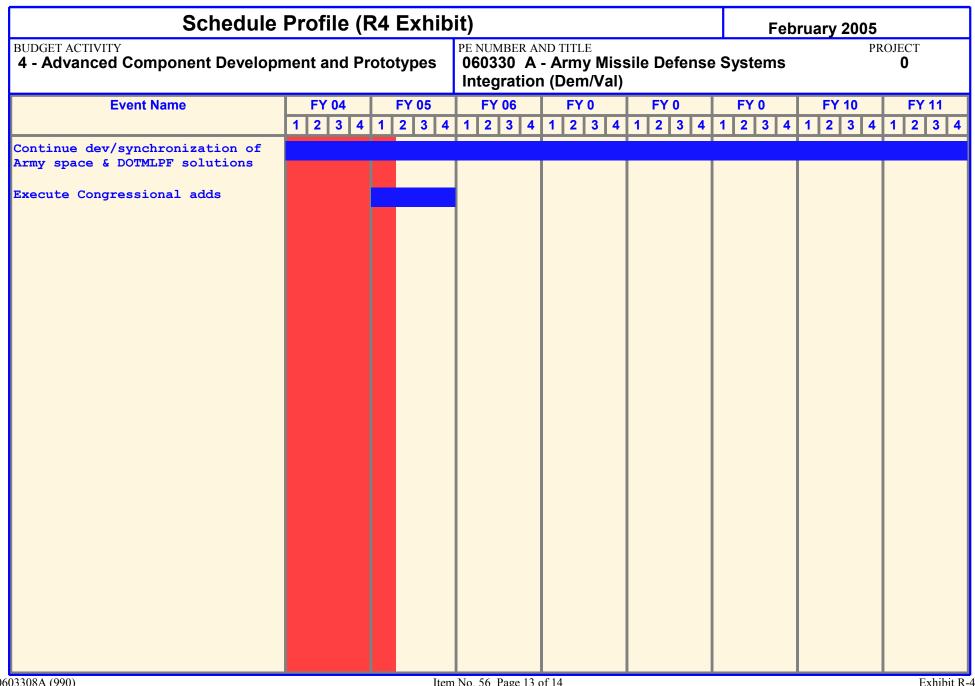
Accomplishments/Planned Program  Continue efforts to plan, develop, and execute concepts and DOTMLPF solutions for Army exploitation of space systems, including Space-Based Infrared System (SBIRS), Multi-Mission Mobile Processor (M3P), Space-Based Radar, and various space control capabilities. Represent Army positions and defend Army equities relative in Joint/DoD and inter-Service activities; e.g., National Security Space Architect (NSSA) Program Assessments, etc. Lead Army's efforts in developing and executing the the Space Domain of the Army Knowledge Enterprise Architecture. Develop space modernization strategies and sponsor exploration of future space warfighting concepts in support of Army Transformation.	FY 2004 8352	FY 2005 3676	FY 2006 8327	FY 2007 12071	
Includes Congressional adds for Low Cost Interceptor, P3 Power System and Radar Power Technology.	17568	13054	0	0	
Totals	25920	16730	8327	12071	

**B. Other Program Funding Summary:** Not applicable for this item.

ARMY RDT&E BUDGET ITEM JUSTIFI	February 2005	
BUDGET ACTIVITY 4 - Advanced Component Development and Prototypes	PE NUMBER AND TITLE  060330 A - Army Missile Defense S Integration (Dem/Val)	PROJECT Systems 0
C. Acquisition Strategy: Program is continuous. Various performers will conduct	et planned accomplishments.	

ARMY RDT&E COST ANALYSIS(R3)   February 2005     BUDGET ACTIVITY   4 - Advanced Component Development and Prototypes   PE NUMBER AND TITLE   060330 A - Army Missile Defense Systems Integration (Dem/Val)     I. Product Development   Contract   Method & Location   Prys Cost   Prys Cost   Cost   Award   Date   Cost   Award   Date
Method & Type
a . Various
Subtotal:   Support Cost   Contract   Performing Activity &   Total   FY 2005   FY 2005   FY 2006   FY 2006   FY 2007   FY 2007   Cost To   Total   Cost   Award   Cost   Award   Cost   Award   Cost   Award   Cost   Date   Cost   Co
II. Support Cost Contract Method & Location Prys Cost Award Type Performing Activity & Total Prys Cost Cost Award Date Cost Date Date Cost Date Co
Method & Location PYs Cost Cost Award Cost Award Complete Cost Various a GOVT SUPPORT & VARIOUS VARIOUS 13246 16730 1-4Q 8327 1-4Q 12071 1-4Q Continue 50374
a . GOVT SUPPORT & VARIOUS VARIOUS 13246 16730 1-4Q 8327 1-4Q 12071 1-4Q Continue 50374
SUPPORT CONTRACTS
13246   16730   8327   12071   Continue   50374

	ARM	Y RDT&E CO	ST AN	<b>ALYS</b>	IS(R3)				Feb	ruary 20	05	
BUDGET ACTIVITY 4 - Advanced Com	ponent De	evelopment and P	rototype	es 060	UMBER AN 0330 A - egration	Army Mi		fense Sy		•	PROJEC <b>0</b>	T
II. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Targe Value o Contrac
Subtotal:			0	0		0		0		0	0	(
Remarks: Not Applicable												
V. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date		Total Cost	Targe Value o Contrac
Subtotal:			0	0		0		0		0	0	(
Remarks: Not Applicable												
			117767	16730		8327		12071		Continue	154895	(



Schedule Detail (R4a Exhibit)							February 2005			
BUDGET ACTIVITY 4 - Advanced Component Development and Pr				ny Missi	le Defen	se Syst	ems	PR	OJECT <b>0</b>	
Schedule Detail	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
Execute Congressional adds.		1-4Q								
Continue development/synchronization of Army space and DOTMLPF solutions	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q		