

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2007

BUDGET ACTIVITY		PE NUMBER AND TITLE								
5 - System Development and Demonstration		0604802A - Weapons and Munitions - Eng Dev								
COST (In Thousands)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	110817	121427	55368	32344	23697	25137	10140			432559
613 MORTAR SYSTEMS	3017	1118								27430
705 Adv Precision Kill Weapon System (APKWS) - SD&ED	10736	34359								60384
AS5 Artillery Munitions Engineering Development	19207	3165								37417
AS8 XM395 PRECISION GUIDED MORTAR MUNITION (PGMM)	26933	47947								74880
S23 SURF LNCH ADV MED RNG AIR-TO-AIR MSL (SLAMRAAM)	34034	26663	34762	11979						107438
S36 COURSE CORRECTING FUZE (CCF)	16890	8175	20606	20365	23697	25137	10140			125010

A. Mission Description and Budget Item Justification: This program element funds multiple efforts for engineering development of weapons and munitions systems.

Project 613 funds completed the RDTE effort for the Mortar Fire Control System (MFCS), a revolutionary improvement in mortar capability seamlessly linking mortar fires in the future digital battlefield in FY06. FY07 funds are for the XM932 120mm Mortar - Short Range Practice Cartridge.

Project 705, the Advanced Precision Kill Weapon System (APKWS), is a highly accurate weapon that will complement the HELLFIRE missile in precision strikes against soft point targets and provide improved accuracy over the current 2.75-inch munition used on the AH-64 Apache, the OH-58 Kiowa Warrior, and armed reconnaissance helicopters (AHRs). FY08 and all future funding was realigned to other higher priority requirements.

Project AS5 funded through FY06 the Advanced Cannon Artillery Ammunition Program (ACAAP), a product improvement program for 105mm and 155mm families of extended range artillery munitions using common airframes for various payloads. ACAAP munitions have ballistic similitude intended to meet FCS and Force Entry range and ballistic requirements. FY07 funds the Hybrid Propellant program for the Future Combat System (FCS). Hybrid Propellant is a unique propellant under development for future application in small, medium and large caliber munitions. Hybrid propellant releases energy more efficiently than conventional propellants and provides FCS munitions with the highest possible muzzle velocity for extended ranges/lethality, the prospect of lighter barrels with less recoil, extended wear characteristics and the ability to use heavier projectiles at standard muzzle velocities for greater lethality.

Project AS8 funds Increment 1 Precision Guided Mortar Munition (PGMM). PGMM is a precision strike round with advanced sensors, guidance systems and enhanced lethal mechanism technology. It will be capable of a first round defeat of high-value, hard-point targets such as bunkers, command and control centers and stationary lightly armored vehicles. FY08 and all future funding was realigned to other higher priority requirements.

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Project S23, the Surface Launched Advanced Medium Range Air-To-Air Missile (SLAMRAAM), is the initial kinetic energy component of Integrated Air & Missile Defense (IAMD), an Air and Missile Defense (AMD) Future Force system. SLAMRAAM's force protection mission is to engage the low-altitude aerial threats out to 18km.

Project S36 funds the design, development, assembly and test of the Course Correcting Fuze (CCF). CCF is currently being pursued as a solution to meet the Precision Guidance Kit (PGK) Capability Development Document requirement. The PGK corrects the ballistic trajectory of the projectile to reduce delivery errors and thus improves projectile accuracy. The PGK will effectively reduce target delivery error of conventional artillery munitions and reduce the number of projectiles required to execute a fire mission.

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<u>B. Program Change Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2007)	104029	130581	114850	85215
Current BES/President's Budget (FY 2008/2009)	110817	121427	55368	32344
Total Adjustments	6788	-9154	-59482	-52871
Congressional Program Reductions		-12463		
Congressional Rescissions				
Congressional Increases		4200		
Reprogrammings	6788	-891		
SBIR/STTR Transfer				
Adjustments to Budget Years			-59482	-52871

Change Summary Explanation: Funding:

FY 2007: Congressional increases for Hybrid Propellant - +\$2.2M (Project AS5), 30mm Airburst Ammunition - +\$1.0M (Project AS5), and XM932 120mm Mortar - Short Range Practice Cartridge (SRPC) - +\$1.0M (Project 613). Congressional reductions for Course Correcting Fuze (CCF) - -\$2.0M (Project S36) and Advanced Precision Kill Weapon System (APKWS) - -\$10.0M (Project 705).

FY 2008: Funds realigned (-\$59.5M) to higher priority requirements.

FY 2009: Funds realigned (-\$52.9M) to higher priority requirements.

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BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604802A - Weapons and Munitions - Eng Dev							PROJECT S23	
COST (In Thousands)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
S23 SURF LNCH ADV MED RNG AIR-TO-AIR MSL (SLAMRAAM)	34034	26663	34762	11979						107438

A. Mission Description and Budget Item Justification: Surface Launched Advanced Medium Range Air-To-Air Missile (SLAMRAAM) is a critical component of the Army's future Cruise Missile Defense capability. It will be resident within Integrated Air & Missile Defense (IAMD) Task Forces and Composite Battalions. SLAMRAAM is part of the Missiles and Space (MS) System of Systems concept, consisting of a launcher platform, AIM-120 Advanced Medium Range Air-to-Air Missiles (AMRAAMs), a common Army vehicle, launch rails, launcher electronics, on-board command, control, communications, and computer (C4) components, Sentinel (Enhanced Target Range and Classification) Sensor, other external Sensors, and an Integrated Fire Control Station (IFCS). SLAMRAAM is a lightweight, day or night, adverse weather, non-line-of-sight (NLOS) system for countering cruise missile (CM), fixed wing (FW), unmanned aerial vehicle (UAV), and reconnaissance, surveillance, and target acquisition (RSTA) platforms. SLAMRAAM's mission is to engage the low-altitude aerial threats in excess of 18km. It is highly mobile and able to operate in close combat areas to protect maneuver forces and critical stationary units, as well as provide cruise missile defense protection for operational and strategic-level critical assets.

<u>Accomplishments/Planned Program:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Product Development	15565	11632	12532	
Contractor Support Cost	4785	3576	3852	
Test and Evaluation	1724	1288	7712	8919
Project Management	11960	10167	10666	3060
Total	34034	26663	34762	11979

<u>B. Other Program Funding Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
PE 0604839A, Proj M06, Patriot/MEADS Combined Aggregate Program (CAP)	274339	325945	372146	408182	589779	427981	436415	77399	Continuing	Continuing
SSN C50001, PATRIOT/MEADS CAP					403735	674386	1042010	1317190	Continuing	Continuing
PE 0102419A, Proj E55, JLENS	99851	242781	481251	353983	337464	320787	182528		Continuing	Continuing
SSN BZ0525, JLENS Production						445850	223550	395200	Continuing	Continuing
SSN C81001, SLAMRAAM Production	18825			65506	118124	76747	61850	61850	Continuing	Continuing
PE 0604820A, Proj E10, SENTINEL	4775	2499	7067						Continuing	Continuing
PE 0603327A, Proj E88, Integrated Fire Control AMD	23662	41249							Continuing	Continuing

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BUDGET ACTIVITY 5 - System Development and Demonstration			PE NUMBER AND TITLE 0604802A - Weapons and Munitions - Eng Dev					PROJECT S23	
PE 0303327A, Proj S34, AMD System of System Engineering and Integration	2684		138399	114587	81636	37876	5238	Continuing	Continuing

Comment: This PE is an integral part of the Missile and Space Integrated Air and Missile Defense (IAMMD) Program including Integrated Fire Control, JLENS, Patriot/MEADS Combined Aggregate Program (CAP), SLAMRAAM, SENTINEL, and on-going initiatives to achieve Single Integrated Air Picture (SIAP).

C. Acquisition Strategy System Development and Demonstration (SDD) contract award in 2nd Quarter FY04. SDD is an ongoing effort that will result in completion of IOT&E, followed by a First Unit Equipped (FUE).

ARMY RDT&E COST ANALYSIS (R3)

February 2007

BUDGET ACTIVITY			PE NUMBER AND TITLE									PROJECT		
5 - System Development and Demonstration			0604802A - Weapons and Munitions - Eng Dev									S23		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Contractor Hardware/Software Development	CPIF	Raytheon, Tewksbury, MA	67087	15565	1-3Q	11632	1-3Q	12532	1-3Q			Cont.	Cont.	Cont.
Government Prototype Manufacturing (GFE)	N/A	SFAE-MSLS-CMDS	3625									Cont.	Cont.	Cont.
Subtotal:			70712	15565		11632		12532				Cont.	Cont.	Cont.
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Contractor Support Costs	CPIF	Raytheon, Tewksbury, MA	1777	4785	1Q	3576	1Q	3852	1Q			Cont.	Cont.	Cont.
Subtotal:			1777	4785		3576		3852				Cont.	Cont.	Cont.
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Government Modeling & Simulation	N/A	CMDS (SFAE-MSLS-CMDS) Redstone Arsenal, AL	6600		1-2Q		1-2Q					Cont.	Cont.	Cont.
Government System Test & Evaluation	N/A	CMDS (SFAE-MSLS-CMDS) Redstone Arsenal, AL	5136		1-2Q		1-2Q	6324	1-2Q	8919	1-2Q	Cont.	Cont.	Cont.
Contractor System Test & Evaluation	CPIF	Raytheon, Tewksbury, MA	2731	1724	1Q	1288	1Q	1388	1Q			Cont.	Cont.	Cont.
Subtotal:			14467	1724		1288		7712		8919		Cont.	Cont.	Cont.

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BUDGET ACTIVITY
5 - System Development and Demonstration

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0604802A - Weapons and Munitions - Eng Dev

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IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Contractor SE/PM	CPIF	Raytheon, Tewksbury, MA	7413	9474	1Q	7080	1Q	7628	1Q			Cont.	Cont.	Cont.
Government SE/PM	N/A	CMDS (SFAE-MSLS-CMDS) Redstone Arsenal, AL	6493	2486	1-2Q	3087	1-2Q	3038	1-2Q	3060	1-2Q	Cont.	Cont.	Cont.
Subtotal:			13906	11960		10167		10666		3060		Cont.	Cont.	Cont.

Remarks: Government Modeling & Simulation included in Test & Evaluation.

Project Total Cost:	100862	34034		26663		34762		11979		Cont.	Cont.	Cont.
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Schedule Profile (R4 Exhibit)

February 2007

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604802A - Weapons and Munitions - Eng Dev

PROJECT
S23

Event Name	FY 06				FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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	1	2	3	4
(1) Low-Rate Initial Production (LRIP) Decision													LRIP Decision ▲																			
DEVELOPMENT / TEST																																
SDD&I, SLAMRAAM, Fire Unit - Prototypes, Sensor Kits - Prototypes, ACS SW Development	ACS SW																															
DT, SLAMRAAM									DT																							
DT / OA													DT / OA																			
LRIP																	LRIP															
IFCS - Prototypes	IFCS																															

Schedule Detail (R4a Exhibit)

February 2007

BUDGET ACTIVITY
5 - System Development and Demonstration

PE NUMBER AND TITLE
0604802A - Weapons and Munitions - Eng Dev

PROJECT
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<u>Schedule Detail</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>
MAJOR MILESTONES	1Q - 4Q	1Q - 4Q	1Q - 4Q					
Low-Rate Initial Production (LRIP) Decision					1Q			
DEVELOPMENT / TEST								
SDD&I, SLAMRAAM	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q				
Fire Unit - Prototypes	1Q - 4Q	1Q - 2Q						
Sensor Kits - Prototypes	3Q - 4Q	1Q - 3Q						
ACS SW Development	1Q - 4Q	1Q - 4Q	1Q - 2Q					
DT, SLAMRAAM		4Q	1Q - 4Q	1Q - 2Q				
DT / OA				2Q - 4Q				
LRIP					1Q - 4Q			
IFCS - Prototypes	1Q - 4Q							

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BUDGET ACTIVITY 5 - System Development and Demonstration			PE NUMBER AND TITLE 0604802A - Weapons and Munitions - Eng Dev						PROJECT S36	
COST (In Thousands)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
S36 COURSE CORRECTING FUZE (CCF)	16890	8175	20606	20365	23697	25137	10140			125010

A. Mission Description and Budget Item Justification: The Course Correcting Fuze is currently being pursued as a solution to meet the Precision Guidance Kit (PGK) Capability Development Document requirement. The PGK is adaptable to existing stockpile and future conventional cannon artillery projectiles. The PGK corrects the ballistic trajectory of the projectile to reduce delivery errors and thus improves projectile accuracy. The PGK will effectively reduce target delivery error of conventional artillery munitions and reduce the number of projectiles required to execute a fire mission. The PGK will benefit 155mm projectiles as well as the family of 105mm projectiles. The increase in effectiveness offered by the PGK gives commanders the operational capability to defeat more targets with the same basic load, while reducing the logistical burden associated with current mission requirements.

<u>Accomplishments/Planned Program:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Executed Milestone A	200			
Execute Milestone B Requirements and initiate MS B Increment 2	125	125		401
Conducted Technology Development and Demonstration	9460			
Conduct Systems Development and Demonstration - Increment 1 and Increment 2		4335	16250	14000
Engineering Support	5785	2965	3356	3964
Testing	1320	520	1000	2000
Small Business Innovative Research/Small Business Technology Transfer Programs		230		
Total	16890	8175	20606	20365

<u>B. Other Program Funding Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
E99250 Course Correcting Fuze (CCF)				15765	20274	29769	35719	36013	Continuing	Continuing

Comment:

C. Acquisition Strategy Acquisition Strategy/Acquisition Plan was approved by Milestone Decision Authority (MDA) on 20 October 2005. The Army approved Milestone A (MS A) and awarded Technology Development (TD) contracts to ATK and BAE in FY06; each TD contract included options for Systems Development and Demonstration (SD&D) and 3 years of production. A Technology Development demonstration will be conducted in 2QFY07 to satisfy the MS A Exit Criteria. A down select to one contractor

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will occur after the conclusion of the TD Demonstration.

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5 - System Development and Demonstration			0604802A - Weapons and Munitions - Eng Dev									S36		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
PGK TD Contract	CPIF	ATK, Minneapolis, MN		3978	3Q								3978	
PGK TD Contract	CPIF	BAE, Minneapolis, MN		2978	3Q								2978	
PGK SDD Contract	CPIF/Option	TBS				4285	2Q	16200		14000		Cont.	Cont.	
Subtotal:				6956		4285		16200		14000		Cont.	Cont.	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Product Manager's Office	In House	PM CAS, Picatinny NJ		320	1-4Q	400	1-4Q	500	1-4Q	600	1-4Q	Cont.	Cont.	
Government IPT Support	MIPR	ARDEC, Picatinny NJ		5715	1-3Q	2690	1-3Q	2856	1-3Q	3364	1-3Q	Cont.	Cont.	
Miscellaneous Support	Various	Various		2504	1-4Q					351	1-3Q	Cont.	Cont.	
Subtotal:				8539		3090		3356		4315		Cont.	Cont.	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Component Air Gun/Railgun Testing	MIPR	ARDEC, Picatinny, NJ		150	2-3Q	100	2-3Q					Cont.	Cont.	
System Demonstration	MIPR	Yuma Proving Ground, Yuma, AZ		1170	4Q	295	2Q	1000	2Q	2000	2Q	Cont.	Cont.	
Safety Testing	MIPR	Yuma Proving Ground, Yuma, AZ				125	4Q					Cont.	Cont.	
Subtotal:				1320		520		1000		2000		Cont.	Cont.	

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IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
PGK Management Support Contract	FFP	Alion, Rome, NY		75	2Q	50	2Q	50	2Q	50	2Q	Cont.	Cont.	
SBIR/STTR						230							230	
Subtotal:				75		280		50		50		Cont.	Cont.	
Project Total Cost:				16890		8175		20606		20365		Cont.	Cont.	

Schedule Profile (R4 Exhibit)

February 2007

BUDGET ACTIVITY
5 - System Development and Demonstration

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PROJECT
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Event Name	FY 06				FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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	1	2	3	4
PGK - Increment 1	TD/SDD																															
(1) Milestone A	▲ MS A																															
(2) TD Contract Award				▲ TD Contract Award																												
(3) Technology Demonstration					▲ Tech Demo																											
(4) SDD Contract Award - Increment 1					▲ SDD Contract Award																											
(5) Milestone B1					▲ MS B1																											
Sequential Environmental Testing - S									SET-S																							
Sequential Environmental Test ing- P													SET-P																			
(6) Milestone C1													▲ MS C1																			
First Article Testing - Increment 1													▲ FAT																			
Initial Operational Test and Evaluation - Increment 1																	▲ IOTE															
Limited User Test - Increment 1																	▲ LUT															
(7) Initial Operational Capability - Increment 1																	▲ IOC															
PGK - Increment 2																	SDD															
(8) Milestone B2																									▲ MS B2							

Schedule Profile (R4 Exhibit)

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PROJECT
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Event Name	FY 06				FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13							
	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	1	2	3	4				
Sequential Environmental Testing - S - Increment 2																					ET-															
Sequential Environmental Testing - P - Increment 2																					ET-															
Limited User Test - Increment 2																					UT															
(9) Milestone C2																									▲ 9 MS C2											
Initial Operational Test and Evaluation - Increment 2																													■ 10 IOTE							
(10) Initial Operational Capability - Increment 2																																	▲ 10 IOC			

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<u>Schedule Detail</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>
PGK - Increment 1	1Q - 4Q	1Q - 4Q						
Milestone A	1Q							
TD Contract Award	3Q							
Technology Demonstration		2Q						
SDD Contract Award - Increment 1		2Q						
Milestone B1		2Q						
Sequential Environmental Testing - S			3Q - 4Q					
Sequential Environmental Test ing- P				1Q - 2Q				
Milestone C1			4Q					
First Article Testing - Increment 1				1Q				
Initial Operational Test and Evaluation - Increment 1				4Q	1Q - 2Q			
Limited User Test - Increment 1					1Q			
Initial Operational Capability - Increment 1					2Q			
PGK - Increment 2				1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q	
Milestone B2				1Q				
Sequential Environmental Testing - S - Increment 2					4Q	1Q		
Sequential Environmental Testing - P - Increment 2					4Q	1Q		
Limited User Test - Increment 2					2Q			
Milestone C2						4Q		
Initial Operational Test and Evaluation - Increment 2							4Q	1Q
Initial Operational Capability - Increment 2								1Q

