Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

2040: Research, Development, Test & Evaluation, Army

PE 0604854A: Artillery Systems - EMD

BA 5: Development & Demonstration (SDD)

COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	32.261	115.811	53.624	0.000	53.624	5.362	5.144	5.235	5.316	Continuing	Continuing
509: LIGHTWEIGHT 155M HOWITZER	5.396	5.615	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
516: PALADIN/FAASV	26.865	110.196	53.624	0.000	53.624	5.362	5.144	5.235	5.316	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element supports the Joint Light Weight 155mm Howitzer (LW155) and the Paladin/FAASV Improvement programs. The LW155, a joint program with the Marine Corps, provides the replacement for the current 1970's vintage M198, 155mm Towed Howitzer. The LW155 provides significant improvement in strategic and tactical mobility over the M198. Project 509 supports Towed Artillery Digitization (TAD) Block II, a software upgrade to the digital fire control system for the M777A2(LW155). The Paladin Integrated Management (PIM) Program which began in FY08 is incorporating a fleet management strategy that addresses obsolescence, reliability, maintainability, and supportability faced on the current fleet platforms (M109A6 and M992A2). The focus is on the following obsolescence areas: power train, suspension, power management, and electronic sub-systems. This allows the opportunity to touch the following areas: next generation fire control system, navigation system, communication/data transfer, Vehicle Health Management System (VHMS), and improved gun drive system. These system level improvements enhance the Paladin mission effectiveness, increase reliability as well as reduce life cycle costs and address electronic obsolescence with the obsolete components and provide the Army with a more viable platform which meets the needs of the maneuver commander out till 2050.

B. Program Change Summary (\$ in Millions)

Diffogram Change Summary (\$ 111 Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	33.190	23.318	5.712	0.000	5.712
Current President's Budget	32.261	115.811	53.624	0.000	53.624
Total Adjustments	-0.929	92.493	47.912	0.000	47.912
 Congressional General Reductions 		-0.607			
 Congressional Directed Reductions 		0.000			
 Congressional Rescissions 	0.000	0.000			
 Congressional Adds 		93.100			
 Congressional Directed Transfers 		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.929	0.000			
 Adjustments to Budget Years 	0.000	0.000	47.912	0.000	47.912

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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army		DATE: February 2010				
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604854A: Artillery Systems - EMD					
Change Summary Explanation Change Summary Explanation: Funding - FY 2011: Funding increase	to support the Paladin/FAASV program.					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army										DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM N PE 0604854		ATURE ystems - EMD)	PROJECT 509: LIGHTWEIGHT 155M HOWITZER					
COST (\$ in Millions) FY 2009 FY 2010 Base Actual Estimate Estimate				FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost		
509: LIGHTWEIGHT 155M HOWITZER	5.396	5.615	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing		
Quantity of RDT&E Articles													

A. Mission Description and Budget Item Justification

The Lightweight 155mm (LW155) Towed Howitzer, a jointly managed program with the Marine Corps, replaces the M198, 155mm Towed Howitzer. LW155 provides significant strategic and tactical mobility improvements. Project 509 supports Towed Artillery Digitization (TAD) Block II, an upgrade to the digital fire control system for the M777A2 (LW155).

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1	5.241	5.458	0.000	0.000	0.000
Funds Matrix Support Software Engineers for TAD Block II Software Development					
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Program #2	0.155	0.157	0.000	0.000	0.000

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army		DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604854A: <i>Artillery Systems - EMD</i>	PROJECT 509: LIGHT	WEIGHT 155M HOWITZER

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR)					
FY 2009 Accomplishments:					
FY 2009					
FY 2010 Plans:					
FY 2010					
FY 2011 Base Plans:					
FY 2011 Base					
FY 2011 OCO Plans:					
FY 2011 OCO					
Accomplishments/Planned Programs Subtotals	5.396	5.615	0.000	0.000	0.000

C. Other Program Funding Summary (\$ in Millions)

			FY 2011	FY 2011	FY 2011					Cost To	
<u>Line Item</u>	FY 2009	FY 2010	Base	<u>OCO</u>	<u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
• Ord. #1: Procurement, Marine Corps	188.536	61.420	10.413	103.600	114.013	5.600	5.600	0.000	0.000	0	375.169
LW155 Towed Howitzer with TAD											
Prod, BLIN 218500											
• Ord. #2: Procurement, WTCV, Army,	120.871	157.415	0.000	62.000	62.000	0.000	0.000	0.000	0.000	0	340.286
LW155 with TAD G01700											

D. Acquisition Strategy

Towed Artillery Digitization (TAD) is an evolutionary acquisition strategy for the Lightweight 155mm Towed Howitzer (LW155). Block 0 consisted of "glass and iron" optical sights as the weapon's fire control. Block 1 TAD incorporated digitized aiming and pointing which increased accuracy and enabled a battery of howitzers to emplace and engage the enemy within 2 to 3 minutes as opposed to 15 to 20 minutes. Block 1a added the ability for the LW155 Howitzer to fire the XM982 Excalibur Precision Munition. Funding identified above

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Army	DATE: February 2010											
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT										
2040: Research, Development, Test & Evaluation, Army	PE 0604854A: Artillery Systems - EMD	509: LIGHTWEIGHT 155M HOWITZER										
BA 5: Development & Demonstration (SDD)												
will be used to upgrade to Block 2, which is the objective TAD configuration.												
enabling enhanced responsiveness and flexibility to the battlefield commander	. It will also integrate a Muzzle Velocimeter for incre-	ased accuracy.										
. Performance Metrics												
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.												
To the indicate of the properties of this justification material may	to round in the FT 2010 Firmy Ferrormance Budget se	istification Book, dated 11th 2010.										

	Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army
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DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604854A: Artillery Systems - EMD

PROJECT

509: LIGHTWEIGHT 155M HOWITZER

Product Development (\$ in Millions)

		FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Funds Matrix Support Software Engineers for TAD Software Development	С	ARDEC Picatinny Arsenal, NJ	0,000	5.458		0.000		0.000		0,000,0	Continuing	Continuing	0
SBIR/STTR	С	Nothing entered for Activity and Location. Location could not be determined.	0,000	0.157		0,000,0		0,000,0		0,000	Continuing	Continuing	0
	Subtotal 0.00					0.000		0.000		0.000			0.000

Remarks

	Total Prior Years Cost FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
	1 cars Cost	1 1 2010	D.	ase	000		Total	Complete	I otal Cost	Contract
Project Cost Totals	0.000	5.615	0.000		0.000		0.000			0.000

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604854A: Artillery Systems - EMD

PROJECT

509: LIGHTWEIGHT 155M HOWITZER

		FY 2009			FY 2010			FY 2011			FY 2012			FY 2013			3	FY 2014			4	FY 2015						
	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
Component Qualification Testing				#	#																							
Coding and Unit Test					#	#																						
Coding Complete						#																						
Integration and Engineering Evaluation Test						#	#																					
Software Formal Qualification Test							#																					

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	PE 0604854A: Artillery Systems - EMD	509: <i>LIGHT</i>	WEIGHT 155M HOWITZER

Schedule Details

	Sta	art	End		
Event	Quarter	Year	Quarter	Year	
Component Qualification Testing	4	2009	1	2010	
Coding and Unit Test	1	2010	2	2010	
Coding Complete	2	2010	2	2010	
Integration and Engineering Evaluation Test	2	2010	3	2010	
Software Formal Qualification Test	3	2010	3	2010	

DATE: February 2010

7											
APPROPRIATION/BUDGET ACTI 2040: Research, Development, Test & H BA 5: Development & Demonstration (NOMENCLA A: <i>Artillery S</i> y		1	PROJECT 516: PALADIN/FAASV						
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
516: PALADIN/FAASV	26.865	110.196	53.624	0.000	53.624	5.362	5.144	5.235	5.316	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army

The Paladin Integrated Management (PIM) process is incorporating a fleet management strategy that addresses obsolescence, reliability, maintainability, and supportability faced on the current fleet platforms (M109A6 and M992A2). The PIM process focuses on the following obsolescence areas: power train, suspension, power management, and electronic subsystems. These system level changes address obsolescence and sustainment issues on the current fleet, increase reliability and maneuverability as well as reduce life cycle costs. The PIM process provides the Army with a more viable platform which meets the needs of the maneuver commander out till 2050.

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1	25.309	76.945	30.223	0.000	30.223
Paladin Integrated Management (PIM) Development					
FY 2009 Accomplishments: FY 2009 FY 2010 Plans:					
FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army		DATE: February 2010						
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604854A: Artillery Systems - EMD		PROJECT 516: PALADIN/FAASV					
B. Accomplishments/Planned Program (\$ in Millions)								
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total		
Program #2		1.152	18.492	11.674	0.000	11.674		
Test and Evaluation								
FY 2009 Accomplishments: FY 2009								
FY 2010 Plans: FY 2010								
FY 2011 Base Plans: FY 2011 Base								
FY 2011 OCO Plans: FY 2011 OCO								
Program #3		0.404	14.379	11.727	0.000	11.727		
Program management								
FY 2009 Accomplishments: FY 2009								
FY 2010 Plans: FY 2010								
FY 2011 Base Plans: FY 2011 Base								

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FY 2011 OCO Plans: FY 2011 OCO

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army	PE 0604854A: Artillery Systems - EMD	516: <i>PALAL</i>	DIN/FAASV
BA 5: Development & Demonstration (SDD)			

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #4	0.000	0.380	0.000	0.000	0.000
Small Business Innovative Research/Small Business Technology Transfer Program					
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Accomplishments/Planned Programs Subtotals	26.865	110.196	53.624	0.000	53.624

C. Other Program Funding Summary (\$ in Millions)

			FY 2011	FY 2011	FY 2011					Cost To	
Line Item	FY 2009	FY 2010	Base	<u>OCO</u>	<u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
• Ord. #1: PA, WTCV, Paladin/FAASV	48.728	42.608	105.277	0.000	105.277	151.335	239.731	449.773	448.999	1,621.243	3,107.694

D. Acquisition Strategy

The PIM process is part of the overall HBCT fleet management strategy for the Paladin/Field Artillery Ammunition Support Vehicle (FAASV) to address ongoing obsolescence issues and ensure long term sustainment of these systems. The PIM process leverages both Government and Contractor capabilities in developing a system's level approach to address the obsolescence issues through the integration of proven Bradley and Future Combat Systems(FCS) common components (power train, suspension and electronics) into a new chassis. To obtain the best value for the Army, PM Fire Support Platform (FSP) is using the Original Equipment Manufacturer (OEM) as the system integrator for developing and producing these Paladin/FAASV Integrated Management (PIM) vehicles. The PIM process development/integration effort began in FY08 utilizing a System Technical Support (STS) work directive that covered System Functional Review (SFR), Preliminary Design Review (PDR) and Critical Design Review (CDR) system engineering activities and early procurement of key

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army	DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
2040: Research, Development, Test & Evaluation, Army	PE 0604854A: Artillery Systems - EMD	516: PALADIN/FAASV
BA 5: Development & Demonstration (SDD)		
components to support the building of 5 Howitzers/2 FAASVs that will underg		
the completion of PIM process development efforts and the fabrication, assembly in the PIM FCP will appear a control of th		
Limited User Ttest, and Live Fire). In FY11 the PM FSP will award a contract Rate Initial Production (LRIP) of which 4 sets will be used for Initial Operation		ts (18 Paladins and 18 FAAS V's) as part of Low
Rate Illitial Froduction (ERIF) of which 4 sets will be used for Illitial Operation	nai Test (101) testing.	
E. Performance Metrics		
Performance metrics used in the preparation of this justification material may be	be found in the FY 2010 Army Performance Budget Ju	stification Book, dated May 2010.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604854A: Artillery Systems - EMD

PROJECT 516: PALADIN/FAASV

Product Development (\$ in Millions)

						EW.	2011	EV	2011	FY 2011			
				FV	2010		ase		2011 CO	Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Component Design and Software Development	C/CPFF	Northrop Grumman Carson, CA	5.027	0.000		0.000		0.000		0.000	0	5.027	6,250
System Integration	C/CPFF	BAE Systems York, Pa	4.834	0.000		0.000		0.000		0.000	0	4.569	7.304
TDP Development	С	Other Gov't Agencies Location could not be determined.	0.452	0.000		0.000		0.000		0.000	Continuing	Continuing	.452
Software Development & System Integration	С	TACOM-ARDEC Picatinny, NJ	10,990	0.000		0.000		0.000		0.000	Continuing	Continuing	4.136
PIM Development	C/CPFF	BAE Location could not be determined.	0.000	77.325		30,223		0.000		30.223	Continuing	Continuing	0
Initiate PIM IPT Structure	C/CPFF	BAE/Northrup Grumman Location could not be determined.	1,688	0.000		0,000		0.000		0.000	0	1,327	.966
		Subtotal	22.991	77.325		30,223		0.000		30,223			19.108

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604854A: Artillery Systems - EMD

PROJECT 516: PALADIN/FAASV

Support (\$ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Logistics	С	TACOM-ACALA Moline, IL	0,229	0.000		0.000		0.000		0.000	0	.229	.370
TARDEC	С	Nothing entered for Activity and Location. Location could not be determined.	0.367	0.000		0.000		0.000		0.000	0	.367	0
Engineering	С	Various Location could not be determined.	0.000	0.000		0.000		0.000		0.000	0	.820	0
		Subtotal	0.596	0.000		0.000		0.000		0.000	0.000	1.416	0.370

Remarks

Test and Evaluation (\$ in Millions)

				FY 2	FY 2010		2011 ase	FY 2	2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Component Level Testing	С	TACOM-ARDEC Picatinny, NJ	0.953	0.000		0.000		0.000		0.000	Continuing	Continuing	1.158
System Level Testing	С	Various OGAs Location could not be determined.	0.930	18.492		11.674		0.000		11.674	Continuing	Continuing	4.022

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army
BA 5: Development & Demonstration (SDD)

PE 0604854A: Artillery Systems - EMD

516: PALADIN/FAASV

Test and Evaluation (\$ in Millions)

,		·		FY	2010		2011 ase	FY:	2011 CO	FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	1.883	18.492		11.674		0.000		11.674			5.180

Remarks

Management Services (\$ in Millions)

				FY 2010		FY :	2011 ase	FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PMO Support	С	PM Paladin/ FAASV Picatinny, NJ/ TACOM	1,213	14.379		11.727		0.000		11.727	Continuing	Continuing	.995
		Subtotal	1,213	14.379		11.727		0.000		11.727			0.995

Remarks

_						 			
	Total Prior Years Cost	FY 2	2010	FY 2011 Base	FY 2	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	26.683	110.196		53.624	0.000	53.624			25.653

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604854A: Artillery Systems - EMD

PROJECT

516: PALADIN/FAASV

	FY 2009			F	F Y 2	201	0	1	Y 2	201	1	FY 2012				FY 2013				FY 2014				FY 20			5	
	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
Contractor Testing		#	#	#	#	#																						
Government Development Test			#	#	#	#	#	#	#																			
Milestone C (Dec 10 Objective - Jun 11 Threshold)								#	#	#																		
Low Rate Initial Production Contract										#	#	#	#	#	#	#												
Low Rate Initial Production Deliveries														#	#	#	#	#	#	#								

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army	PE 0604854A: Artillery Systems - EMD	516: <i>PALAD</i>	IN/FAASV
BA 5: Development & Demonstration (SDD)			

Schedule Details

	St	art	End			
Event	Quarter	Year	Quarter	Year		
Contractor Testing	2	2009	2	2010		
Government Development Test	3	2009	1	2011		
Milestone C (Dec 10 Objective - Jun 11 Threshold)	4	2010	2	2011		
Low Rate Initial Production Contract	2	2011	4	2012		
Low Rate Initial Production Deliveries	2	2012	4	2013		