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*

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)

	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

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 NOMENCLATURE** PE 0604854A: *Artillery Systems - EMD*	**PROJECT** 509: *LIGHTWEIGHT 155M HOWITZER*

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
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: *Artillery Systems - EMD*	**PROJECT** 509: *LIGHTWEIGHT 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)

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

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

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** 509: *LIGHTWEIGHT 155M HOWITZER*

will be used to upgrade to Block 2, which is the objective TAD configuration. The primary benefit of TAD Block 2 will be the addition of mission processing capability at the platform, enabling enhanced responsiveness and flexibility to the battlefield commander. It will also integrate a Muzzle Velocimeter for increased accuracy.

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 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*

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	C	ARDEC Picatinny Arsenal, NJ	0.000	5.458		0.000		0.000		0.000	Continuing	Continuing	0
SBIR/STTR	C	Nothing entered for Activity and Location. Location could not be determined.	0.000	0.157		0.000		0.000		0.000	Continuing	Continuing	0
		Subtotal	0.000	5.615		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**
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				FY 2014				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 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*

Schedule Details

	Start		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

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*			
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

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 sub-systems. 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 *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 #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)

Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To 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
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components to support the building of 5 Howitzers/2 FAASVs that will undergo Government Testing in FY10-11. In FY09, the PM FSP awarded a cost reimbursable R&D contract for the completion of PIM process development efforts and the fabrication, assembly and delivery of 7 prototypes (5 howitzers/2 FAASV) for Government testing (Development Testing, Limited User Ttest, and Live Fire). In FY11 the PM FSP will award a contract for the fabrication and delivery of 18 PIM process sets (18 Paladins and 18 FAASV's) as part of Low Rate Initial Production (LRIP) of which 4 sets will be used for Initial Operational Test (IOT) testing.

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 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)

				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**
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	C	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	C	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	C	TACOM-ACALA Moline, IL	0.229	0.000		0.000		0.000		0.000	0	.229	.370
TARDEC	C	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	C	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 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**
Component Level Testing	C	TACOM-ARDEC Picatinny, NJ	0.953	0.000		0.000		0.000		0.000	Continuing	Continuing	1.158
System Level Testing	C	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		**DATE:** February 2010
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Test and Evaluation ($ 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**
		Subtotal	1.883	18.492		11.674		0.000		11.674			5.180

Remarks

Management Services ($ 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**
PMO Support	C	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 2010**		**FY 2011 Base**		**FY 2011 OCO**		**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
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	FY 2009				FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				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
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
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Schedule Details

	Start		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