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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				PE 0603635M: Marine Corps Grnd Cmbt/Supt Sys							
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	57.718	78.228	40.505	0.000	40.505	138.340	84.480	33.378	37.019	Continuing	Continuing
1964: Anti-Armor Weapon System	0.000	1.437	1.250	0.000	1.250	1.275	1.130	1.156	1.002	Continuing	Continuing
2614: SMAW Follow-On	13.848	14.331	7.493	0.000	7.493	6.804	9.425	0.358	0.381	Continuing	Continuing
3209: Joint Light Tactical Vehicle	38.688	57.680	31.762	0.000	31.762	130.261	73.925	31.864	35.636	Continuing	Continuing
9999: Congressional Addds	5.182	4.780	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	54.890

A. Mission Description and Budget Item Justification

This PE supports the demonstration and validation of Marine Corps Ground/Supporting Arms Systems for utilization in Marine Air-Ground Expeditionary Force amphibious operations.

This program is funded under DEMONSTRATION & VALIDATION because it develops and integrates hardware for experimental test related to specific ground weapon system.

B. Program Change Summary (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	65.253	73.798	0.000	0.000	0.000
Current President's Budget	57.718	78.228	40.505	0.000	40.505
Total Adjustments	-7.535	4.430	40.505	0.000	40.505
• Congressional General Reductions		-0.326			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	-0.044			
• Congressional Addds		4.800			
• Congressional Directed Transfers		0.000			
• Reprogrammings	-3.900	0.000			
• SBIR/STTR Transfer	-2.438	0.000			
• Program Adjustments	0.000	0.000	40.505	0.000	40.505
• Congressional Recision Adjustments	0.003	0.000	0.000	0.000	0.000
• Congressional Add Adjustments	-1.200	0.000	0.000	0.000	0.000

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<u>Congressional Add Details (\$ in Millions, and Includes General Reductions)</u>		FY 2009	FY 2010
Project: 9999: Congressional Adds			
Congressional Add: <i>Expeditionary Capabilities Laboratory</i>		0.000	2.390
Congressional Add: <i>Marine Expeditionary Rifle Squad Reconfigurable Vehicle Simulator</i>		0.000	2.390
Congressional Add: <i>URBAN OPERATIONS ENVIRONMENTAL LABORATORY</i>		1.596	0.000
Congressional Add: <i>ANTI-SNIPER INFRARED TARGETING SYSTEM</i>		1.990	0.000
Congressional Add: <i>Marine Sensor Integrated Modular Protection</i>		1.596	0.000
Congressional Add Subtotals for Project: 9999		5.182	4.780
Congressional Add Totals for all Projects		5.182	4.780
<u>Change Summary Explanation</u> FY11 from previous President's Budget is shown as zero because no FY11-15 data was presented in President's Budget 2010.			

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				R-1 ITEM NOMENCLATURE PE 0603635M: <i>Marine Corps Grnd Cmbt/Supt Sys</i>				PROJECT 1964: <i>Anti-Armor Weapon System</i>			
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
1964: <i>Anti-Armor Weapon System</i>	0.000	1.437	1.250	0.000	1.250	1.275	1.130	1.156	1.002	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification The Anti-Armor Weapons System-Heavy (AAWS-H) program, working in concert with the US Army, will develop and integrate technology improvements into the Improved Target Acquisition System (ITAS) to meet Increment II system requirements as jointly agreed. Improvements will center on integration of a battlefield networking communications capability and a laser designation capability.											
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
Contractor conducted systems integration and qualification <i>FY 2010 Plans:</i> Support contractor integration and qualification of positioning antennae improvements to increase accuracy of the Saber Position and Azimuth Determination System (PADS). <i>FY 2011 Base Plans:</i> Support contractor completion of final qualification of the PADS antennae improvements and initiate integration and qualification of Saber image enhancement improvements.						0.000	0.814	0.609	0.000	0.609	
Provide engineer and technical support <i>FY 2010 Plans:</i> Provide Army program management office engineering and test support for the PADS improvements.						0.000	0.298	0.310	0.000	0.310	

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy				DATE: February 2010							
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B. Accomplishments/Planned Program (\$ in Millions)											
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total					
<i>FY 2011 Base Plans:</i> Provide Army program management office engineering and test support for the image enhancement improvements.											
Provide Government program management/in-house support.		0.000	0.325	0.331	0.000	0.331					
<i>FY 2010 Plans:</i> Provide USMC program management office engineering and logistical assessment of the PADS improvements.											
<i>FY 2011 Base Plans:</i> Provide USMC program management office engineering and logistical assessment of the image enhancement improvements.											
Accomplishments/Planned Programs Subtotals		0.000	1.437	1.250	0.000	1.250					
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
• PMC/301700 : <i>Anti Armor System Heavy</i>	0.000	71.005	20.315	0.000	20.315	19.933	24.837	0.024	0.027	0.000	136.141
D. Acquisition Strategy											
FY10 is to conduct the development, integration and qualification of the battlefield networking capability into the ITAS. FY11 funding will continue the integration and qualification of the battelfield networking capability.											
E. Performance Metrics											
N/A											

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				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total																																																											
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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
Anti Armor	Various/ FFP	BAE Garrisonville, VA	0.000	0.325	Oct 2009	0.331	Oct 2011	0.000		0.331	Continuing	Continuing	Continuing
Subtotal			0.000	0.325		0.331		0.000		0.331			
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	1.437		1.250		0.000		1.250			
Remarks													

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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
2614: <i>SMAW Follow-On</i>	13.848	14.331	7.493	0.000	7.493	6.804	9.425	0.358	0.381	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification <p>Shoulder-Launched Multipurpose Assault Weapon II (SMAW II). Marine Expeditionary Forces will employ the Shoulder-Launched Multipurpose Assault Weapon II (SMAW II) across the spectrum of conflict, under all environmental conditions, to destroy a variety of ground targets. This requirement relates to The Concept for Future Military Operations on Urbanized Terrain, dated 25 July 1997, which requires Marine units to possess the capability to rapidly breach urban structures in order to facilitate and enhance their mobility in an urban environment. The SMAW II will support the Joint Operating Concept, Major Combat Operations via the Force Application Joint Functional Concept.</p> <p>The mission of the SMAW II is to provide short-range assault fires in support of infantry forces attacking fortified positions and urban structures under all field and environmental conditions. This includes employment under Mission Oriented Protective Posture (MOPP) IV Level CBRN conditions. A typical operating environment for the SMAW II will consist of a mission duration of 96 hours. During this mission the system will be transported 40 km (25 miles) in the field handling mode, using various tactical means, 50% cross country. The system will be employed in the offense in either close or open terrain and subsequently assigned defensive positions in depth along infantry and vehicle choke points."</p> <p>During the 96 hours, the expected combat load is six rounds of ammunition per system. The system is spread-loaded among the two-man team. The solution to the Follow-on-to-SMAW (FOTS) requirement is the SMAW II system, which will be developed in two distinct blocks. Block 1 of the SMAW II system consists of new SMAW launcher, which will be physically and functionally compatible with all current SMAW ammunition variants, and a Multipurpose (MP) Fire-From-Enclosure (FFE) SMAW round. Block 2 of the SMAW II system will be the addition of a Wall Breaching (WB) FFE round and a Common Practice (CP) FFE round. During FY09-11, the development and qualification of Block 1 will be completed. Full Rate Production of Block 1 will commence in FY12. During FY12-13, the development and qualification of Block 2 will be completed. Full Rate Production of Block 2 will commence in FY13.</p>											
B. Accomplishments/Planned Program (\$ in Millions)											
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total						
Contractor conducted systems integration and qualification.	12.080	8.085	2.436	0.000	2.436						

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: Completed system Preliminary Design Review; awarded critical sub-contracts; conducted initial component and sub-system Development Verification Testing (DVT).						
FY 2010 Plans: Complete component, sub-system, system level DVT; complete component, sub-system, system level Critical Design Review (CDR) and Qualification Test Readiness Review (TRR); initiate Qualification hardware build.						
FY 2011 Base Plans: Complete Qualification hardware build; complete System Qualification; complete System Verification Review (SVR) and Functional Configuration Audit (FCA); complete pre-Low Rate Initial Production (LRIP) Verification Review and initiate LRIP.						
Provide engineer and technical support.		0.555	5.022	3.239	0.000	3.239
FY 2009 Accomplishments: Provided engineering support for Post Award Conference, Integrated Baseline Review, and Preliminary Design Review; maintained system requirements engineering data; continued development of the Government independent 6-DOF flight simulation model of the selected SMAW-II system; conducted System Safety Program; provided review of all contract technical deliverables.						
FY 2010 Plans: Provide engineering support for the CDR, Qualification TRR, and System Qualification Testing; plan and coordinate all required System Safety Reviews; maintain the requirements engineering data to include review and acceptance of the deliverable draft Product Baseline; continue to develop, refine and operate the Government independent 6-DOF flight simulation model of the SMAW II system; establish the SMAW II test range and conduct Environmental, Insensitive Munitions, Hazard Class, Flight, ESD, EMI, EME, and HERO testing; provide review of all contract technical deliverables.						

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: Provide engineering support for the System Qualification Testing, SVR, FCA, and pre-LRIP PRR; plan and coordinate all required System Safety Reviews; provided engineering support to LRIP First Article Testing (FAT) and Lot Acceptance (LAT); continue to refine and operate the Government independent 6-DOF flight simulation model of the SMAW II system; provide review of all contract technical deliverables.						
Provide Government program management/in-house support.		0.993	0.592	0.388	0.000	0.388
FY 2009 Accomplishments: Provided administrative and technical support to all programmatic and technical reviews; maintained programmatic documentation change management system; maintained CDRL deliverables review and management system; participated in all program IPTs; prepared the SMAW II Supportability Plan; maintained the SMAW II LCCE; provided EVMS analytical support; developed and managed Action Item database.						
FY 2010 Plans: Provide administrative and technical support to all programmatic and technical reviews; maintain programmatic documentation change management system; maintain CDRL deliverables review and management system; participate in all program IPTs; update the SMAW II Supportability Plan and prepare all Acquisition Logistics documentation; maintain the SMAW II LCCE; provide EVMS analytical support; manage Action Item database.						
FY 2011 Base Plans: Provide administrative and technical support to all programmatic and technical reviews; maintain programmatic documentation change management system; maintain CDRL deliverables review and management system; participate in all program IPTs; update the SMAW II Supportability Plan and prepare all Acquisition Logistics documentation; maintain the SMAW II LCCE; provide EVMS analytical support; manage Action Item database.						

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B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
Provide operational test support planning and document preparation <i>FY 2009 Accomplishments:</i> Participated in the update to the Test and Evaluation Master Plan (TEMP); planned and conducted the Test Concept Verification Conference (TCVC) and all associated documentation; completed the initial draft of the Failure Definition/Scoring Conference (FD/SC) Charter; provided operational test expertise to all programmatic and technical reviews. <i>FY 2010 Plans:</i> Complete initial and final drafts of Operational Test and Evaluation (OT&E) Detailed Test Plan documentation; review all DVT test reports and data; participate in the update to the TEMP; provide operational test expertise to all programmatic and technical reviews. <i>FY 2011 Base Plans:</i> Complete all OT&E planning; conduct and report the SMAW II system OT&E; provide operational test expertise to all programmatic and technical reviews.						0.220	0.632	1.430	0.000	1.430	
Accomplishments/Planned Programs Subtotals						13.848	14.331	7.493	0.000	7.493	
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
• PMC/301600: <i>Follow on to SMAW</i>	0.000	0.000	21.570	0.000	21.570	64.278	34.471	21.180	19.964	0.000	161.463
D. Acquisition Strategy FY09-11 strategy is to complete development and qualification of the Block 1 SMAW II system (i.e. new SMAW Launcher and new Multi Purpose Fire From Enclosure (MP FFE) round). FY12-13 strategy is to award sole source contract to Block 1 SMAW II contractor to complete development and qualification of the Block 2 SMAW II system (i.e. a new Wall Breaching (WB) FFE and Common Practice (CP) FFE rounds).											

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<u>E. Performance Metrics</u> Milestone Reviews		

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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
Systems Integration	C/CPFF	Nammo Talley Meza, AZ	14.011	8.085	Oct 2009	2.436	Oct 2010	0.000		2.436	Continuing	Continuing	Continuing
Subtotal			14.011	8.085		2.436		0.000		2.436			
Remarks													
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
Engineering and Technical Spt	WR	NSWC Dahlgren, VA	2.080	5.022	Oct 2009	3.239	Oct 2010	0.000		3.239	Continuing	Continuing	Continuing
Subtotal			2.080	5.022		3.239		0.000		3.239			
Remarks													

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy											DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				R-1 ITEM NOMENCLATURE PE 0603635M: <i>Marine Corps Grnd Cmbt/Supt Sys</i>				PROJECT 2614: <i>SMAW Follow-On</i>						
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	
Operational Testing and Support	WR	MCOTEA Quantico, VA	0.741	0.632	Oct 2009	1.430	Oct 2010	0.000		1.430	Continuing	Continuing	Continuing	
Subtotal			0.741	0.632		1.430		0.000		1.430				
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	
Program Mgmt and Engineering Support	Various/ FFP	BAESystems Stafford, VA	1.097	0.592	Oct 2009	0.388	Oct 2010	0.000		0.388	Continuing	Continuing	Continuing	
Subtotal			1.097	0.592		0.388		0.000		0.388				
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			17.929	14.331		7.493		0.000		7.493				
Remarks														

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Navy																DATE: February 2010												
APPROPRIATION/BUDGET ACTIVITY									R-1 ITEM NOMENCLATURE									PROJECT										
1319: Research, Development, Test & Evaluation, Navy									PE 0603635M: Marine Corps Grnd Cmbt/Supt Sys									2614: SMAW Follow-On										
BA 4: Advanced Component Development & Prototypes (ACD&P)																												
	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
System Development & Demonstration, Block 1	■	■	■	■	■	■	■	■	■																			
Low Rate Initial Production (LRIP), Block 1											■	■																
Production & Deployment, Blcok 1														■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Milestone C, Block 1										■																		
LRIP Option Award, Block 1										■																		
FRP RFP Release, Block 1											■	■	■															
FRP Contract Award, Block 1														■														
FRP, Block 1														■														
Preliminary Design Review, Block 1		■																										
Critical Design Review / DRR, Block 1					■																							
Test Readiness Review, Block 1						■																						
System Verification Review. Block 1									■																			
Milestone B, Block 2													■															
Production Readiness Review, Block 1									■																			
System Development & Demonstration, Block 2													■	■	■	■	■	■	■									
Production & Deployment, Blcok 2																				■	■	■	■	■	■	■	■	■
Milestone C, Block 2																■												
IOC, Block 1																	■											
SDD Contract Award, Block 2													■															

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Navy																							DATE: February 2010					
APPROPRIATION/BUDGET ACTIVITY												R-1 ITEM NOMENCLATURE												PROJECT				
1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)												PE 0603635M: Marine Corps Grnd Cmbt/Supt Sys												2614: SMAW Follow-On				
	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
FRP RFP Release, Blcok 2																												
FRP, Block 2																												
FRP Contract Award, Block 2																												
Critical Design Review, Blcok 2																												
Test Readiness Review, Block 2																												
System Verification Review, Block 2																												
Production Readiness Review, Block 2																												
Subsystem Qualification, Block 2																												
System Qualification, Block 2																												
IOT&E, Block 2																												
IOC, Block 2																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603635M: <i>Marine Corps Grnd Cmbt/Supt Sys</i>	PROJECT 2614: <i>SMAW Follow-On</i>	

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
System Development & Demonstration, Block 1	1	2009	1	2011
Low Rate Initial Production (LRIP), Block 1	3	2011	4	2011
Production & Deployment, Block 1	3	2012	4	2015
Milestone C, Block 1	2	2011	2	2011
LRIP Option Award, Block 1	2	2011	2	2011
FRP RFP Release, Block 1	3	2011	1	2012
FRP Contract Award, Block 1	2	2012	2	2012
FRP, Block 1	2	2012	2	2012
Preliminary Design Review, Block 1	2	2009	2	2009
Critical Design Review / DRR, Block 1	1	2010	1	2010
Test Readiness Review, Block 1	3	2010	3	2010
System Verification Review, Block 1	1	2011	1	2011
Milestone B, Block 2	1	2012	1	2012
Production Readiness Review, Block 1	1	2011	1	2011
System Development & Demonstration, Block 2	1	2012	4	2013
Production & Deployment, Block 2	1	2014	4	2015
Milestone C, Block 2	1	2013	1	2013
IOC, Block 1	2	2013	2	2013

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603635M: <i>Marine Corps Grnd Cmbt/Supt Sys</i>	PROJECT 2614: <i>SMAW Follow-On</i>	

Event	Start		End	
	Quarter	Year	Quarter	Year
SDD Contract Award, Block 2	1	2012	1	2012
FRP RFP Release, Block 2	3	2013	3	2013
FRP, Block 2	1	2013	1	2013
FRP Contract Award, Block 2	4	2013	4	2013
Critical Design Review, Block 2	1	2012	1	2012
Test Readiness Review, Block 2	2	2012	2	2012
System Verification Review, Block 2	3	2013	3	2013
Production Readiness Review, Block 2	3	2013	3	2013
Subsystem Qualification, Block 2	1	2012	2	2012
System Qualification, Block 2	2	2012	4	2012
IOT&E, Block 2	1	2013	2	2013
IOC, Block 2	4	2014	4	2014

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				R-1 ITEM NOMENCLATURE PE 0603635M: <i>Marine Corps Grnd Cmbt/Supt Sys</i>				PROJECT 3209: <i>Joint Light Tactical Vehicle</i>			
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
3209: <i>Joint Light Tactical Vehicle</i>	38.688	57.680	31.762	0.000	31.762	130.261	73.925	31.864	35.636	Continuing	Continuing
Quantity of RDT&E Articles	0	2	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification JLTV Family of Vehicles (FOV): The Defense Acquisition Executive's mandate is the JLTV FoV undergo a robust Technology Development Phase, with multiple, competitive prototypes, to assure requirements achievability verified by demonstration of those systems. FY09 and future funding supports the development and testing of JLTV, which is a joint and international R&D program between the Army and Marine Corps, with the Australian Army participating under a Project Arrangement. The JLTV goal is a FoV with companion trailers capable of performing multiple mission roles that will be designed to provide protected, sustained, networked mobility for personnel and payloads across the full Range of Military Operations. JLTV objectives include increased protection and performance over the current fleet; minimizing ownership costs by maximizing commonality, fuel efficiency and other means; and maintaining effective competition throughout the lifecycle. The FoV includes ten (10) sub-configurations (and companion trailers) in three payload categories. Commonality of components, maintenance procedures, training, etc., between vehicles and trailers is expected to be inherent in FoV solutions within and across payload categories to minimize FoV total ownership cost. Unique service requirements have been minimized. During FY11, major budget activities will support completion of Reliability, Availability and Maintainability (RAM) and performance testing, as well as, live fire evaluations and the generation of test reports. In addition, Milestone (MS) B preparations will come to a conclusion with the milestone decision and award of Engineering Manufacturing Development (EMD) contracts. The Service plans on procuring EMD prototypes in FY12.											
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
Prototype Article <i>FY 2010 Plans:</i> Design, fabrication & testing of additional prototypes to focus on reliability & survivability enhancements.						0.000	3.600	0.000	0.000	0.000	
Primary and Ancillary Hardware Development and Systems Engineering						31.097	29.122	17.491	0.000	17.491	

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy				DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 ITEM NOMENCLATURE PE 0603635M: Marine Corps Grnd Cmbt/Supt Sys		PROJECT 3209: Joint Light Tactical Vehicle	
B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p><i>FY 2009 Accomplishments:</i> Commenced Technology Development phase efforts for each of the three vendors, conducted Integrated Baseline Reviews (IBRs) & Preliminary Design Reviews (PDRs), and continued development towards Critical Design Reviews (CDRs). Armor coupons were delivered to the Government and contractors began fabrication of TD prototypes.</p> <p><i>FY 2010 Plans:</i> Conducted CDRs for three vendors in the 1st quarter and will conduct CDRs and PDRs for Australian right hand operation variants. Ballistic hulls to be delivered. Test Readiness Reviews scheduled for 2nd quarter. Vehicles, total of 21 for Army and USMC, and trailer deliveries planned for 3rd quarter.</p> <p><i>FY 2011 Base Plans:</i> Close out TD phase development contracts and test support. Perform source selection activities, obtain MS B decision, and award multiple Engineering and Manufacturing Development (EMD) contracts.</p>					
GFE and Tooling to Support Product Development and Testing	0.609	0.000	1.250	0.000	1.250
<p><i>FY 2009 Accomplishments:</i> Procured various sets of Government Furnished Equipment (GFE) to support integration efforts & developmental testing.</p> <p><i>FY 2011 Base Plans:</i> Procure GFE long lead items required to support EMD prototype integration efforts. Fabrication of prototypes will begin in FY12.</p>					
Support Test and Evaluation Program with Army	0.451	13.088	4.347	0.000	4.347
<p><i>FY 2009 Accomplishments:</i> Interoperability & information assurance analysis & transprotability analysis.</p>					

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy				DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)		R-1 ITEM NOMENCLATURE PE 0603635M: Marine Corps Grnd Cmbt/Supt Sys		PROJECT 3209: Joint Light Tactical Vehicle	
B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: Complete armor coupon testing. Complete reliability, availability, & maintainability (RAM) testing, performance testing and begin user evaluations. Prototypes to be delivered in the 3rd quarter. Complete user evaluations. Commence prototype ballistic testing.					
FY 2011 Base Plans: Complete TD phase T&E activities. Produce and staff T&E reports. Support EMD source selection activities.					
ILS and Facilities Documentation/Analysis and Develop Support Engineering FY 2009 Accomplishments: Initiated manpower, personel, and training analysis, continued development of logistic planning documentation and strategy. FY 2010 Plans: Initiating facilities analysis, at numerous USMC sites, conducting logistics supportability demonstrations and continue development of logistic planning documentation and strategy. FY 2011 Base Plans: Complete facilities analysis, support GFE management, and source selection activities.	0.389	4.946	1.628	0.000	1.628
Program Management Support FY 2009 Accomplishments: Supported program operations, including start of work meetings, IBRs, PDRs, knowledge point reviews, which support refinement of the Capability Development Document (CDD), and program planning activities in preparation for MS B.	6.142	6.924	7.046	0.000	7.046

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0603635M: Marine Corps Grnd Cmbt/Supt Sys				PROJECT 3209: Joint Light Tactical Vehicle			
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
FY 2010 Plans: Supporting program operations, including design (e.g., CDRs) and readiness reviews, knowledge point reviews, test events and key program planning activities in preparation of MS B.											
FY 2011 Base Plans: Continue support of program operations and planning activities. Key events include request for proposal (RFP) release, source selection activities, completion of Technology Development (TD) testing and attainment of MS B and EMD contract awards.											
Accomplishments/Planned Programs Subtotals						38.688	57.680	31.762	0.000	31.762	
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
• PMC/5095: JLTV	0.000	0.000	0.000	0.000	0.000	0.000	33.828	516.752	713.794	Continuing	Continuing
• USA/0603804A - L04: JLTV-AD R&D	20.541	32.135	52.925	0.000	52.925	0.000	0.000	0.000	0.000	0.000	105.601
• USA/0604804A - L50: Light Tactical Veh R&D	0.000	0.000	0.000	0.000	0.000	66.824	51.508	52.472	53.341	0.000	224.145
• USA/D15603A: JLTV OPA	0.000	0.000	0.000	0.000	0.000	0.000	153.029	478.081	858.362	0.000	1,489.472
D. Acquisition Strategy											
The JLTV Acquisition Strategy for the Technology Development (TD) phase, FY08-11, is to competitively award multiple contracts. The TD phase contracts were awarded on October 29, 2008 under the full and open competition process to BEA Systems Land & Armament Systems-Ground Systems Division; General Tacticle Vehicles (A Joint Venture Of General Dynamics Land Systems, Inc. and AM General, LLC); and Lockheed Martin Systems Integration. During this phase, the contractors will be required to design the JLTV Family of Vehicles (FoV) to the Preliminary Design Review level and fabricate and test select prototypes and trailers for payload Categories A, B, and C. The fabricated prototypes will undergo developmental testing, as well as, limited user assessments, in a relevant environment, at test centers. The addition of Australian prototypes to the program will further reduce risk. The goal is to ensure the family of prototypes is mature in terms of supporting											

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603635M: <i>Marine Corps Grnd Cmbt/Supt Sys</i>	PROJECT 3209: <i>Joint Light Tactical Vehicle</i>
<p>technologies and full system integration for MS B approval and entry into the Engineering Manufacturing Development EMD phase in FY11. Informed, knowledge-based decisions on acquiring the JLTV capability will require flexibility and agility in the acquisition strategy. The program plans to award two competitive contracts on EMD and will consider early production of technologically mature variants. Prior to Milestone C, the program will down select to (1) contractor. This contractor will then go into operational testing and Low Rate Initial Production (LRIP).</p> <p><u>E. Performance Metrics</u></p> <p>Milestone Reviews</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy											DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603635M: Marine Corps Grnd Cmbt/Supt Sys					PROJECT 3209: Joint Light Tactical Vehicle				
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	
Primary Hardware Development - TD	C/Various	BAE Systems Santa Clara, CA	21.499	10.366	Feb 2010	0.000		0.000		0.000	0.000	31.865	Continuing	
Primary Hardware Development - TD	C/Various	General Tactical Vehicles Sterling, MI	16.749	8.989	Feb 2010	0.000		0.000		0.000	0.000	25.738	Continuing	
Primary Hardware Development - TD	C/CPFF	Lockheed Martin Owego, NY	18.249	8.717	Feb 2010	0.000		0.000		0.000	0.000	26.966	Continuing	
Primary Hardware Development - EMD	Various/ TBD	TBD TBD	0.000	0.000		16.302	Sep 2011	0.000		16.302	Continuing	Continuing	Continuing	
Systems Engineering	Various/ Various	Various Various	4.554	1.050		1.189		0.000		1.189	Continuing	Continuing	Continuing	
Governmetn Furnished Equipment (GFE)	C/CPIF	Various Various	0.661	0.000		1.250		0.000		1.250	Continuing	Continuing	Continuing	
JLTV Technology Demonstrator Design, Build and Eval	C/CPFF	NATC Carson City, NV	1.414	0.000		0.000		0.000		0.000	0.000	1.414	Continuing	
Prototype	C/Various	TBD TBD	0.000	3.600	Feb 2010	0.000		0.000		0.000	0.000	3.600	Continuing	
Subtotal			63.126	32.722		18.741		0.000		18.741				
Remarks In FY11, the Technology Development (TD) phase contract execution concludes and program progresses towards a MS B decision and Engineering Manufacturing Development (EMD) contract(s) awards and initiaiton of EMD design efforts.														

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy											DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603635M: Marine Corps Grnd Cmbt/Supt Sys					PROJECT 3209: Joint Light Tactical Vehicle				
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	
Training Development	Various/ Various	Various Various	0.175	0.785		0.175	Dec 2010	0.000		0.175	Continuing	Continuing	Continuing	
Integrated Logistics Support	Various/ Various	Various Various	2.148	4.161		1.453		0.000		1.453	Continuing	Continuing	Continuing	
Subtotal			2.323	4.946		1.628		0.000		1.628				
Remarks Facility assessments commence in FY10. FY11 activities are structured to continue facility assessments and gather, analyze, and incorporate data from TD into EMD logistical planning packages.														
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	
Test Developmental and Evaluation	MIPR	Aberdeen Proving Grounds, MD	0.000	12.200	Feb 2010	3.796	Dec 2010	0.000		3.796	0.000	15.996	Continuing	
Test Developmental and Evaluation Oversight & Support	Various/ Various	Various Various	1.169	0.888		0.551	Nov 2010	0.000		0.551	Continuing	Continuing	Continuing	
Subtotal			1.169	13.088		4.347		0.000		4.347				
Remarks Primary, Government led TD phase developmental test activities conclude in FY11														

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy											DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				R-1 ITEM NOMENCLATURE PE 0603635M: <i>Marine Corps Grnd Cmbt/Supt Sys</i>				PROJECT 3209: <i>Joint Light Tactical Vehicle</i>					
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
Program Management Support	C/FFP	SAIC Dumfries, VA	4.649	2.895	Dec 2009	3.806	Jan 2011	0.000		3.806	Continuing	Continuing	Continuing
Program Management Support	C/CPFF	Various Various	8.097	3.850		3.035		0.000		3.035	Continuing	Continuing	Continuing
Travel	Various/ Various	MCSC Quantico, VA	0.444	0.179		0.205		0.000		0.205	Continuing	Continuing	Continuing
Subtotal			13.190	6.924		7.046		0.000		7.046			
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			79.808	57.680		31.762		0.000		31.762			
Remarks													

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

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

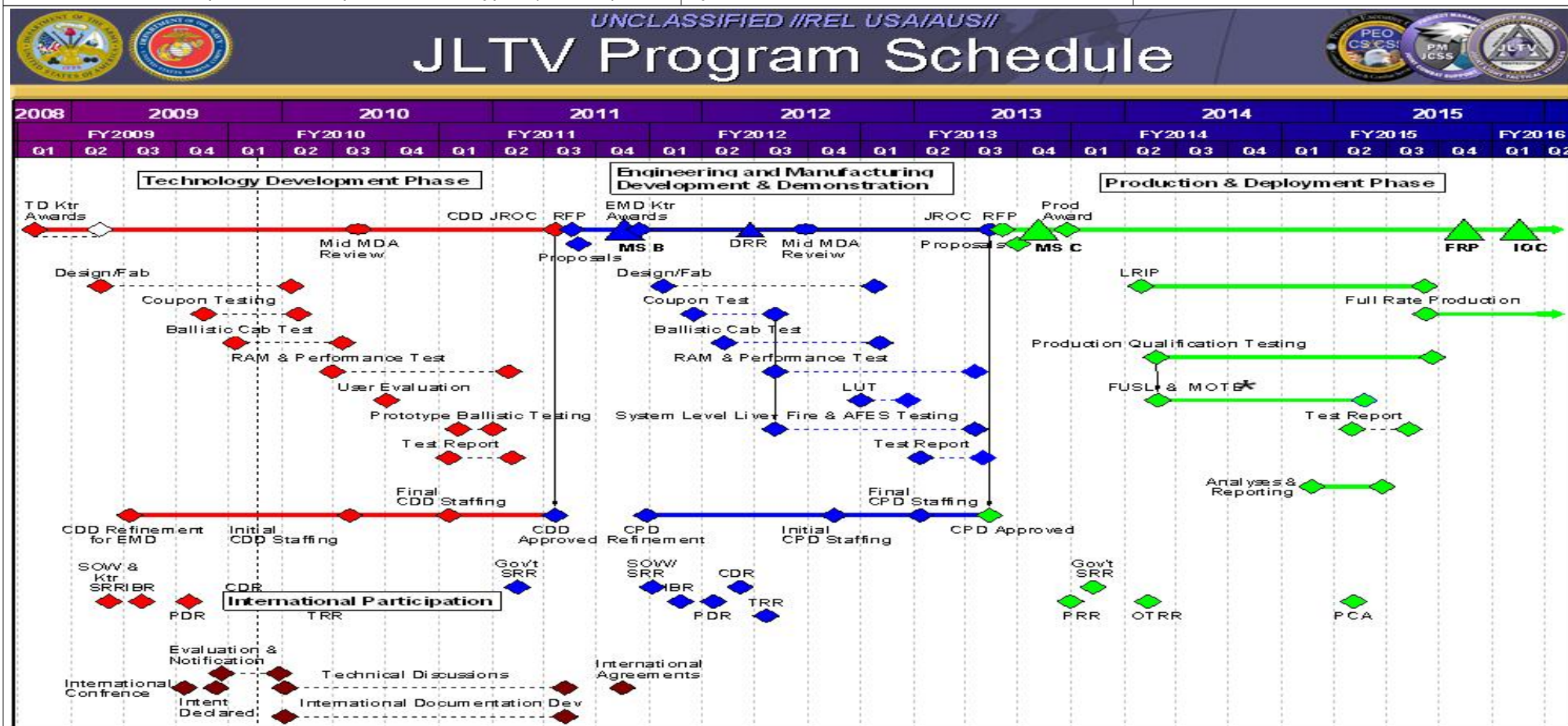
1319: Research, Development, Test & Evaluation, Navy
BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603635M: Marine Corps Grnd Cmbt/Supt Sys

PROJECT

3209: Joint Light Tactical Vehicle



*Full-Up System Live Fire Test (FUSL) and Multi Service Operational Test & Evaluation (MOTET) in Production and Deployment Phase.

Joint Program Schedule v1.0
Dated: 01 Dec 09

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603635M: <i>Marine Corps Grnd Cmbt/Supt Sys</i>	PROJECT 3209: <i>Joint Light Tactical Vehicle</i>	

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
TD Phase Prototype Development, Design/Fabrication	2	2009	2	2010
TD Phase Test & Evaluation/Reports	4	2009	2	2011
Capabilities Development Document Refinement for EMD	2	2009	3	2011
Analysis of Alternatives	3	2009	3	2011
MS B Decision	4	2011	4	2011
EMD Contract(s) Award	4	2011	4	2011
EMD Design/Fabrication/Testing	4	2011	3	2013
MS C/LRIP Decision	4	2013	4	2013
Multi Service Operational T&E/Full-up System Live Fire Test	2	2014	3	2015
Full Rate Production Decision	4	2015	4	2015

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				R-1 ITEM NOMENCLATURE PE 0603635M: <i>Marine Corps Grnd Cmbt/Supt Sys</i>				PROJECT 9999: <i>Congressional Adds</i>			
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
9999: <i>Congressional Adds</i>	5.182	4.780	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	54.890
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification Expeditionary Capabilities Laboratory; Marine Expeditionary Rifle Squad Reconfigurable Vehicle Simulator; Urban Operations Environmental Laboratory; Anti-Sniper Infrared Targeting System; Marine Sensor Integrated Modular Protection											
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010				
Congressional Add: Expeditionary Capabilities Laboratory <i>FY 2010 Plans:</i> Explore bomb detection and counter measures technologies, robotic and sensor technologies, utilization of nanotechnologies, human performance effects and human factors engineering on Marines, and environmental safety concerns.						0.000	2.390				
Congressional Add: Marine Expeditionary Rifle Squad Reconfigurable Vehicle Simulator <i>FY 2010 Plans:</i> Develop and design a reconfigurable vehicle simulator that replicated interior of multiple mobility platforms and concentrates on JLTV platform as the optimized platform. This effort will provide a mobility integration tool and examine human factors attributes within mobility platforms by fully equipped infantry Marines. Anticipate once funding received contracting effort will be initiated						0.000	2.390				
Congressional Add: URBAN OPERATIONS ENVIRONMENTAL LABORATORY						1.596	0.000				

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603635M: <i>Marine Corps Grnd Cmbt/Supt Sys</i>	PROJECT 9999: <i>Congressional Adds</i>
B. Accomplishments/Planned Program (\$ in Millions)		
	FY 2009	FY 2010
<i>FY 2009 Accomplishments:</i> Conduct analysis, develop newly emerging non-lethal technologies, and explore novel technological solutions, in support of the development and utilization of non-lethal and nontraditional technologies for military operations particularly in urban and littoral environments by small, highly mobile units.		
Congressional Add: ANTI-SNIPER INFRARED TARGETING SYSTEM <i>FY 2009 Accomplishments:</i> Development, exploitation and enhancement of capabilities of Anti-Sniper Infrared Targeting System (ASITS).	1.990	0.000
Congressional Add: Marine Sensor Integrated Modular Protection <i>FY 2009 Accomplishments:</i> Developed two prototype systems with one focused on modular protection and the other focused on sensor integration. These two prototypes demonstrated the functionality to develop and design a single integrated system by merging the two designs together. Functional requirements have been developed and prototype designs are being developed for production of 8 systems. These 8 systems will be utilized in user trials in order to determine user preferences, desired attributes, and operational functionality of the system.	1.596	0.000
Congressional Adds Subtotals	5.182	4.780
C. Other Program Funding Summary (\$ in Millions) N/A		
D. Acquisition Strategy N/A		

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603635M: <i>Marine Corps Grnd Cmbt/Supt Sys</i>	PROJECT 9999: <i>Congressional Adds</i>
<u>E. Performance Metrics</u> N/A		