

EXHIBIT R-2, RDT&E Budget Item Justification

DATE: May 2009

APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT (PE) NAME AND NO.					
RDT&E, N /BA-4 Demonstration/Validation	0603635M Marine Corps Ground Combat/Support Systems					
	FY 08	FY 09	FY 10	FY 10 OCO	FY 10 Total	
Total PE	54.405	65.253	73.798	0.000	73.798	
C1964 Joint Anti-Armor Weapon System (Javelin)	3.856	1.596	1.443	0.000	1.443	
C2614 SMAW Follow-On	3.061	15.007	14.391	0.000	14.391	
C3209 Joint Light Tactical Vehicle	39.969	43.867	57.964	0.000	57.964	
C9999 Congressional Adds	7.519	4.783	0.000	0.000	0.000	
Quantity of RDT&E Articles						

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

Funding:	FY2008	FY2009	FY2010
FY 2009 President's Budget:	56.725	59.049	68.407
FY 2010 President's Budget:	<u>54.405</u>	<u>65.253</u>	<u>73.798</u>
Total Adjustments:	-2.320	6.204	5.391
Summary of Adjustments:			
a. SBIR/STTR Transfer:	-0.306		
b. Program Adjustments:	-2.014	-0.177	6.539
c. Rate/Misc Adjustments:			-0.088
d. Congressional Adjustments:		6.381	-1.060
Subtotal	-2.320	6.204	5.391

EXHIBIT R-2a, RDT&E Project Justification						DATE: May 2009	
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME	
RDT&E, N /BA-4 Demonstration/Validation			0603635M Marine Corps Ground Combat/Support Systems			C1964 Joint Anti-Armor Systems	
COST (\$ in Millions)			FY 2008	FY 2009	FY2010 OCO	FY2010 Total	
Project Cost			3.856	1.596	1.443	0.000	1.443
RDT&E Articles Qty							
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:							
The 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.							
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:							
COST (\$ in Millions)			FY 2008	FY 2009	FY 2010	FY 2010 OCO	
Accomplishment/Effort Subtotal Cost			0.000	0.000	0.814	0.000	
RDT&E Articles Qty							
Anti Armor (C1964) - Contractor conducted systems integration and qualification							
COST (\$ in Millions)			FY 2008	FY 2009	FY 2010	FY 2010 OCO	
Accomplishment/Effort Subtotal Cost			0.000	0.000	0.303	0.000	
RDT&E Articles Qty							
Anti Armor (C1964) - Provide engineer and technical support.							
COST (\$ in Millions)			FY 2008	FY 2009	FY 2010	FY 2010 OCO	
Accomplishment/Effort Subtotal Cost			0.000	0.000	0.325	0.000	
RDT&E Articles Qty							
Anti Armor (C1964) - Provide government program management / in-house support.							
COST (\$ in Millions)			FY 2008	FY 2009	FY 2010	FY 2010 OCO	
Accomplishment/Effort Subtotal Cost			3.856	1.596	0.000	0.000	
RDT&E Articles Qty							
Congressional/Urban Operations Environmental Lab (C1964A) - Conduct analyses, 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.							
COST (\$ in Millions)			FY 2008	FY 2009	FY 2010	FY 2010 OCO	
Accomplishment/Effort Subtotal Cost			0.000	0.000	0.001	0.000	
RDT&E Articles Qty							
MERS (C1964) - Conduct analysis of Soldier and Marine Infantry Systems and highlight integration issues; plan for modernization of future systems; develop processes and procedures for configuration management of the Infantry Squad.							
(U) Total \$			3.856	1.596	1.443	0.000	
(U) C. OTHER PROGRAM FUNDING SUMMARY:							
<u>Line Item No. & Name</u>		<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2010 OCO</u>	<u>FY 2010 Total</u>	
PMC BLI 301700 Anti Armor System Heavy		0.000	0.000	71.225	0.000	71.225	
(U) Related RDT&E: Not Applicable.							
(U) D. ACQUISITION STRATEGY: FY10 is to conduct the development, integration and qualification of the battlefield networking capability into the ITAS.							
(U) E. MAJOR PERFORMERS:							
Raytheon, McKinney, TX (Systems Integration and Qualification)							
NSWC Dahlgren, VA (Engineering and Technical Support)							
Contractor TBD (PMO Support)							

Exhibit R-3 Cost Analysis										DATE: May 2009				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NUMBER AND NAME						
RDT&E, N /BA-4 Demonstration/Validation			0603635M Marine Corps Ground Combat/Support Arms Systems					C1964 Joint Anti-Armor Systems						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date					
Anti Armor	WR	NSWC, Dahlgren, VA	0.000	0.000		0.000		0.303	10/09					
Subtotal Support			0.000	0.000		0.000		0.303						
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date					
MERS/UOEL	FFP	MERS VARIOUS	0.000	3.856	VAR	1.596	VAR	0.001	10/09					
Anti Armor	C/CPIF	Raytheon, McKinney, TX	0.000	0.000		0.000		0.814	03/10					
Subtotal T&E			0.000	3.856		1.596		0.815						
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date					
Anti Armor	FFP	MCSC, Quantico, VA	0.000	0.000		0.000		0.325	10/09					
Subtotal Management			0.000	0.000		0.000		0.325						
Remarks:														
Total Cost			0.000	3.856		1.596		1.443						

EXHIBIT R-2a, RDT&E Project Justification					DATE: May 2009			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME			
RDT&E, N /BA-4 Demonstration/Validation	0603635M Marine Corps Ground Combat/Support Systems				C9999 CONGRESSIONAL ADDS			
COST (\$ in Millions)	FY 2008	FY 2009	FY2010	FY2010 OCO	FY2010 Total			
Project Cost	7.519	3.586	0.000	0.000	0.000			
RDT&E Articles Qty								
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:								
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:								
COST (\$ in Millions)	FY 2008	FY 2009	FY 2010					
Accomplishment/Effort Subtotal Cost	4.820	1.990	0.000					
RDT&E Articles Qty								
Anti-Sniper Infrared Target System (ASITS) C9873A -FY08: Development, exploitation and enhancement of capabilities of Anti-Sniper Infrared Targeting System (ASITS).								
COST (\$ in Millions)	FY 2008	FY 2009	FY 2010					
Accomplishment/Effort Subtotal Cost	0.000	1.596	0.000					
RDT&E Articles Qty								
Marine Sensor Integrated, Modular Protection C9A07A - The goal of the MSIMP program is to effectively integrate the various sensors and display systems required by the Marine by developing concepts for integrating enhanced protection, sensing, information display, and communications technologies into a single, self-contained unit to be mounted on the USMC's in-service LWH.								
COST (\$ in Millions)	FY 2008	FY 2009	FY 2010					
Accomplishment/Effort Subtotal Cost	2.699	0.000	0.000					
RDT&E Articles Qty								
Intelligent Machining of Advanced Defense Materials C9B89A - Provides for the software/hardware development and integration of advanced machining processes applicable to various defense weapons platforms.								
(U) Total \$	7.519	3.586	0.000					
(U) C. OTHER PROGRAM FUNDING SUMMARY:								
(U) Related RDT&E: Not Applicable.								
(U) D. ACQUISITION STRATEGY:								
(U) E. MAJOR PERFORMERS:								

EXHIBIT R-2a, RDT&E Project Justification					DATE: MAY 2009				
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME				
RDT&E, N /BA-4 Adv Component Dev. and Prototypes		0603635M MC Ground Combat / Supporting Arms Systems			C9B89A Congressional - Intelligent Machining of Adv Defense Materials				
		FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 Total			
Project Cost		2.699	0.000	0.000	0.000	0.000			
RDT&E Articles Qty									
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: (U) 9B89 Congressional Add for Intelligent Machining of Advanced Defense Materials									
COST (\$ in Millions)		FY 2008	FY 2009	FY 2010	FY 2010 OCO				
Accomplishment/Effort Subtotal Cost		2.699	0.000	0.000	0.000				
RDT&E Articles Qty									
Research and develop intelligent machining, the standardization of machining software, process management, and optimization of machining operations for a variety of high performance materials using new and existing manufacturing assests and processes at the Joint Systems Manufacturing Center (JSMC) in Lima, Ohio.									
COST (\$ in Millions)		FY 2008	FY 2009	FY 2010	FY 2010 OCO				
(U) Total \$		2.699	0.000	0.000	0.000				
(U) D. ACQUISITION STRATEGY: A sole source contract was awarded on 31 Jul 08.									
(U) E. MAJOR PERFORMERS: General Dynamics Land Systems (GDLS) is the sole contractor responsible for manufacturing and facility operation at the Joint Systems Manufacturing Center (JSMC) in Lima, Ohio.									
(U) SCHEDULE PROFILE:									

EXHIBIT R-2a, RDT&E Project Justification				DATE: May 2009			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME			
RDT&E, N /BA-4 Demonstration/Validation	0603635M Marine Corps Ground Combat/Support Systems			C2614 FOLLOW ON TO SMAW (FOTS)			
COST (\$ in Millions)		FY 2008	FY 2009	FY 2010	FY 2010 OCO	FY 2010 Total	
Project Cost		3.061	15.007	14.391	0.000	14.391	
RDT&E Articles Qty							
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:							
<p>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 The solution to the 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 FY08-10, the development and qualification of Block 1 will be completed.</p>							
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:							
COST (\$ in Millions)		FY 2008	FY 2009	FY 2010	FY 2010 OCO		
Accomplishment/Effort Subtotal Cost		2.139	11.785	10.344	0.000		
RDT&E Articles Qty							
Contractor conducted systems integration and qualification							
COST (\$ in Millions)		FY 2008	FY 2009	FY 2010	FY 2010 OCO		
Accomplishment/Effort Subtotal Cost		0.610	1.928	1.774	0.000		
RDT&E Articles Qty							
Provide engineer and technical support.							
COST (\$ in Millions)		FY 2008	FY 2009	FY 2010	FY 2010 OCO		
Accomplishment/Effort Subtotal Cost		0.222	0.908	0.926	0.000		
RDT&E Articles Qty							
Provide government program management / in-house support.							
COST (\$ in Millions)		FY 2008	FY 2009	FY 2010	FY 2010 OCO		
Accomplishment/Effort Subtotal Cost		0.090	0.386	1.347	0.000		
RDT&E Articles Qty							
Provide operational test support planning and document preparation.							
(U) Total \$		3.061	15.007	14.391	0.000		
(U) C. OTHER PROGRAM FUNDING SUMMARY:							
<u>Line Item No. & Name</u>		<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>			
PMC BLI 301600 Follow on to SMAW		0.000	0.000	25.333			
(U) Related RDT&E: Not Applicable.							
(U) D. ACQUISITION STRATEGY: FY08-10 strategy is to conduct full and open competition to select contractor 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).							
(U) E. MAJOR PERFORMERS:							
NAMMO Talley, Mesa, AZ (System Development & Demonstration)							
NSWC, Dahlgren Division, VA (Engineering & Technical Support)							
BAE Systems, Stafford VA (Program Management Support)							
MCOTEA, Quantico, VA (Operational Test & Evaluation)							

Exhibit R-3 Cost Analysis								DATE: May 2009						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT					PROJECT NUMBER AND NAME						
RDT&E, N /BA-4 Demonstration/Validation			0603635M Marine Corps Ground Combat/Support Arms Systems					C2614 FOLLOW ON TO SMAW (FOTS)						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date					
Systems Integration	C/CPFF	NAMMO Talley, Mesa, AZ	0.000	2.139	08/08	11.785	10/08	10.344	10/09					
Subtotal Product Dev			0.000	2.139		11.785		10.344						
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date					
Engineering and Technical Spt	WR	NSWC, Dahlgren, VA	0.800	0.610	10/07	1.928	10/08	1.774	10/09					
Subtotal Support			0.800	0.610		1.928		1.774						
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date					
Program Mgmt and Eng Support	WR	MCOTEA, Quantico, VA	0.208	0.222	10/07	0.908	10/08	0.926	10/09					
Subtotal T&E			0.208	0.222		0.908		0.926						
Remarks:														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date					
Operational Testing and Support	FFP	BAE Systems, Stafford, VA	0.078	0.090	10/07	0.386	10/08	1.347	10/09					
Subtotal Management			0.078	0.090		0.386		1.347						
Remarks:														
Total Cost			1.086	3.061		15.007		14.391						

Exhibit R-4-4a Project Schedule/Detail			DATE: May 2009
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-4 Demonstration/Validation	PROGRAM ELEMENT 0603635M Marine Corps Ground Combat/Support Arms Systems	PROJECT NUMBER AND NAME C2614 FOLLOW ON TO SMAW (FOTS) BLOCK 1	
PHASES AND MILESTONES System Development & Demonstration Milestones CONTRACTUAL ACTIVITIES SDD RFP Release SDD Contract Award TECHNICAL REVIEWS Preliminary Design Review Critical Design Review / DRR Test Readiness Review TESTING DT Subsystem Qualification System Qualification	FY08	FY09	FY10
	MS B		MS C
	▲	▲	
		▲	▲
			▲
		▲	

Program Funding Summary	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(APPN, BLI #, NOMEN)			
(U) RDT&E,N, C2614, Follow-on to SMAW	3.061	15.007	14.391
(U) PMC, BLI 301600, Follow-on to SMAW	0.000	0.000	25.333

EXHIBIT R-2a, RDT&E Project Justification					DATE:	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME	
RDT&E, N /BA-04 Demonstration and Validation		0603635M Marine Corps Ground Combat/Support Systems			C3209 Joint Light Tactical Vehicle	
COST (\$ in Millions)		FY 2008	FY 2009	FY 2010	FY 2010	
				OCO	Total	
Project Cost		39.969	43.867	57.964	0.000	57.964
RDT&E Articles Qty		10				
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:						
<p>Joint Light Tactical Vehicle (JLTV) Family of Vehicles (FOV): FY08 and future funding supports the development and testing of the JLTV, which is being developed as a joint system between the Army and Marine Corps. The JLTV goal is a family of vehicles 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 (ROMO). 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 JLTV 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.</p> <p>During FY 10, major budget activities will support completion of ballistic hull testing, vehicle performance testing, user evaluations, reliability testing and prototype livefire evaluations. The Defense Acquisition Executive's mandate is that the JLTV FoV undergo a robust Technology Development Phase, with multiple competitive prototypes in order to assure requirements achievability, verified by demonstration of those systems.</p>						
(U) B. ACCOMPLISHMENTS/PLANNED PROGRAM:						
COST (\$ in Millions)		FY 2008	FY 2009	FY 2010	FY 2010	FY 2010 OCO
Accomplishment/Effort Subtotal Cost		20.928	0.000	0.000		0.000
RDT&E Articles Qty		10				
Prototype Articles						
COST (\$ in Millions)		FY 2008	FY 2009	FY 2010	FY 2010	FY 2010 OCO
Accomplishment/Effort Subtotal Cost		12.703	35.515	27.752		0.000
Primary and Ancillary Hardware Development and Systems Engineering						
COST (\$ in Millions)		FY 2008	FY 2009	FY 2010	FY 2010	FY 2010 OCO
Accomplishment/Effort Subtotal Cost		0.073	0.112	0.000		0.000
GFE and Tooling to Support Product Development and Testing						
COST (\$ in Millions)		FY 2008	FY 2009	FY 2010	FY 2010	FY 2010 OCO
Accomplishment/Effort Subtotal Cost		0.526	2.061	10.686		0.000
Support Test and Evaluation Program with Army						
COST (\$ in Millions)		FY 2008	FY 2009	FY 2010	FY 2010	FY 2010 OCO
Accomplishment/Effort Subtotal Cost		0.000	0.615	13.314		0.000
ILS and Facilities Documentation/Analyses and Develop Support Equipment						
COST (\$ in Millions)		FY 2008	FY 2009	FY 2010	FY 2010	FY 2010 OCO
Accomplishment/Effort Subtotal Cost		5.739	5.564	6.212		0.000
Program Management at Quantico and Contractor Support						
(U) Total \$		39.969	43.867	57.964		0.000

EXHIBIT R-2a, RDT&E Project Justification		DATE:
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	May 2009
RDT&E, N /BA-04 Demonstration and Validation	0603635M Marine Corps Ground Combat/Support Systems	C3209 Joint Light Tactical Vehicle
(U) C. OTHER PROGRAM FUNDING SUMMARY:		
<u>Line Item No. & Name</u>	<u>FY 2008</u>	<u>FY 2009</u> <u>FY 2010</u> <u>FY 2010 OCO</u> <u>FY 2010 Total</u>
US Army JLTV-AD R&D 0603804A - L04	106.434	21.985 32.658
(U) Related RDT&E:		
(U) D. ACQUISITION STRATEGY:		
<p>The JLTV Acquisition Strategy for the Technology Demonstration (TD) phase was to competitively award multiple contracts. The Government awarded three contracts on 29 Oct 2009. 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 selected 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 facilities. The goal is to ensure the family of prototypes is mature in terms of supporting technologies and full system integration for MS B approval and entry into the Engineering Manufacturing Development phase.</p>		
(U) E. MAJOR PERFORMERS:		
<p>BAE Systems Land & Armament Systems, General Tactical Vehicles (A Joint Venture of General Dynamics Land Systems, Inc. and AM General, LLC), and Lockheed Martin Systems Integration</p>		
<p>Notes: *Vehicle prototypes represent the USMC contribution to the Joint Program.</p>		

Exhibit R-3 Cost Analysis							DATE: May 2009						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME						
RDT&E, N/BA-04 Demonstration and Validation			0603635M Marine Corps Ground Combat/Support Systems				C3209 Joint Light Tactical Vehicle						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date				
Primary Hardware Development - TD	C/Cshare	BAE Systems, Santa Clara, CA	0.000	10.499	10/08	14.672	3/09	6.243	11/09				
Primary Hardware Development - TD	C/Cshare	General Tactical Vehicles, Sterling, MI	0.000	10.499	10/08	8.418	3/09	7.882	11/09				
Primary Hardware Development - TD	CPFF	Lockheed Martin, Owego, NY	0.000	10.499	10/08	10.314	3/09	5.463	11/09				
Primary Hardware Development - EMD	TBD	TBD	0.000	0.000	N/A	0.000	N/A	0.000	N/A				
Ancillary Hardware Development	N/A	N/A	0.000	0.000	N/A	0.000	N/A	0.000	N/A				
Systems Engineering	Various	Various	0.362	2.059	Various	2.111	Various	8.164	Various				
Tooling	N/A	N/A	0.000	0.000	N/A	0.000	N/A	0.000	N/A				
GFE	MIPR	Various	0.000	0.073	Various	0.112	N/A	0.000	N/A				
JLTV CTV Variant Demonstrator Design and Evaluation	CPFF	NATC Carson City, Nevada	1.569	0.075	7/08	0.000	N/A	0.000	N/A				
Subtotal Product Dev			1.931	33.704		35.627		27.752					
Remarks: TD phase contract execution continues in FY10, including vendor support of test and evaluation events. Government funded systems engineering activities increase, as the program conducts modeling and simulation activities utilizing TD phase data.													
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date				
Training Development	Various	Various	0.000	0.000		0.027	Various	0.785	Various				
Integrated Logistics Support	Various	Various	0.293	0.000		0.588	Various	12.529	Various				
Subtotal Support			0.293	0.000		0.615		13.314					
Remarks: Significant ILS activities commence in FY10, such as facility assessments, which are required to support JLTV and include studies to define types of facilities or facility improvements, location, space needs, environmental requirements, and equipment associated with JLTV.													
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date				
Developmental Test & Evaluation	MIPR	Aberdeen Proving Ground, Md; Yuma Proving Ground, Az	0.000	0.000	N/A	1.554	5/09	9.798	11/09				
Developmental Test & Evaluation	Various	Various	0.000	0.526	Various	0.507	Various	0.888	11/09				
Subtotal T&E			0.000	0.526		2.061		10.686					
Remarks: Primary, Government led TD phase developmental test activities, such as RAM (Reliability, Availability, & Maintainability) testing commence in FY10.													
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date				
Program Management Support	FFP	SAIC	0.000	2.179	12/07	2.130	12/08	2.183	12/09				
Program Management Support	Various	Various	2.618	3.395	Various	3.259	Various	3.850	Various				
Program Management Personnel													
Travel	N/A	MCSC, Quantico, Va	0.008	0.165	10/07	0.175	10/08	0.179	10/09				
Subtotal Management			2.626	5.739		5.564		6.212					
Remarks:													
Total Cost			4.850	39.969		43.867		57.964					
Remarks:													

Exhibit R-4-4a Project Schedule/Detail

DATE:

May 2009

APPROPRIATION/BUDGET ACTIVITY

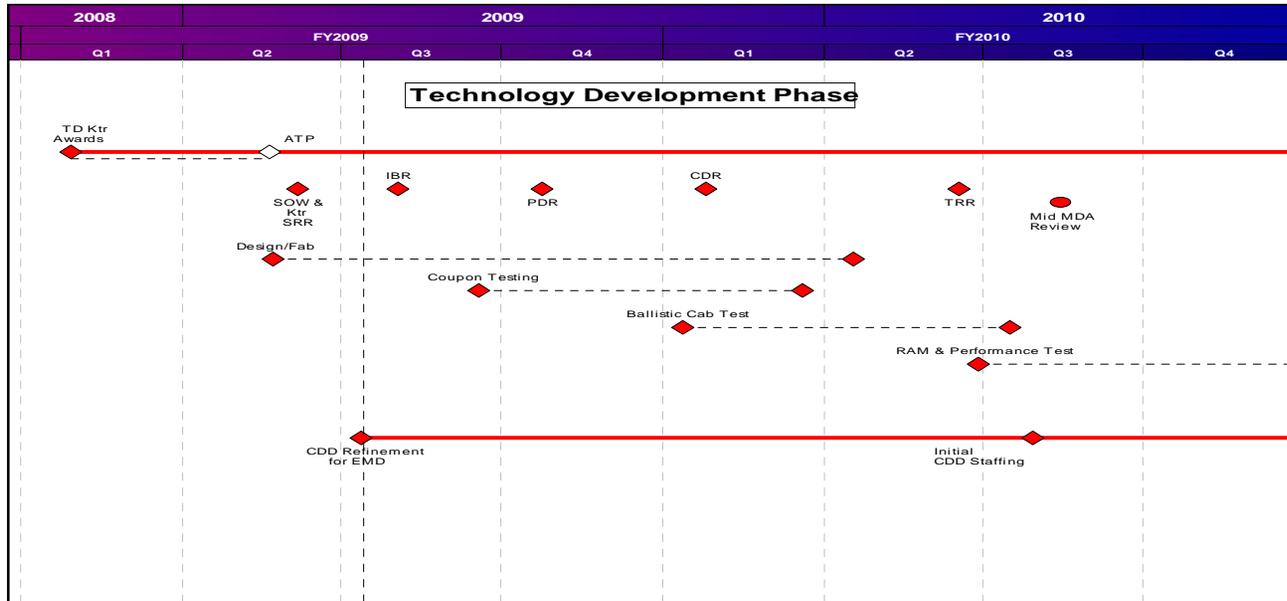
PROGRAM ELEMENT

PROJECT NUMBER AND NAME

RDT&E, N /BA-04 Demonstration and Validation

0603635M Marine Corps Ground Combat/Support Systems

C3209 Joint Light Tactical Vehicle



Joint Program Schedule v1.0
Dated: 3 March 09

Program Funding Summary

(APPN, BLI #, NOMEN)

(U) RDT&E,N PU C3209

FY 2008 FY 2009 FY 2010

39.969 43.867 57.964

	FY 2008	FY 2009	FY 2010
MS A	1Q		
TD Phase Developmental Testing		3Q	
Integrated Baseline Reviews		3Q	
Preliminary Design Reviews		4Q	
Critical Design Reviews			1Q
Milestone Decision Authority Review			3Q