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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy **Date:** March 2014

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0603635M / <i>Marine Corps Grnd Cmbt/Supt Sys</i>							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	22.702	8.400	1.489	1.342	-	1.342	1.271	1.300	1.321	1.368	Continuing	Continuing
1964: <i>Anti-Armor Weapon System</i>	0.868	1.057	1.143	1.005	-	1.005	0.924	0.939	0.954	0.994	Continuing	Continuing
2614: <i>SMAW Follow-On</i>	21.834	7.343	0.346	0.337	-	0.337	0.347	0.361	0.367	0.374	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

Note

The Joint Light Tactical Vehicle (JLTV) program, Project number 3209 transitioned to BA 04 PE 0605812M beginning in FY 2013.

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 tests related to specific ground weapon system.

B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	10.496	1.489	1.386	-	1.386
Current President's Budget	8.400	1.489	1.342	-	1.342
Total Adjustments	-2.096	-	-0.044	-	-0.044
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-1.704	-			
• SBIR/STTR Transfer	-0.378	-			
• Program Adjustments	-	-	-0.037	-	-0.037
• Rate/Misc Adjustments	-0.001	-	-0.007	-	-0.007
• Congressional General Reductions Adjustments	-0.013	-	-	-	-

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PE 0603635M: *Marine Corps Grnd Cmbt/Supt Sys*
Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 4					R-1 Program Element (Number/Name) PE 0603635M / Marine Corps Grnd Cmbt/ Supt Sys				Project (Number/Name) 1964 / Anti-Armor Weapon System			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
1964: Anti-Armor Weapon System	0.868	1.057	1.143	1.005	-	1.005	0.924	0.939	0.954	0.994	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
The M41A4 Saber system is the primary heavy, anti-armor launch system for the TOW Missile within the Ground Combat Element of the Marine Corps. The Anti-Armor Weapons System-Heavy (AAWS-H) program, working in concert with the U.S. Army, will develop and integrate technology improvements into the Improved Target Acquisition System (ITAS) to meet Increment II system requirements as jointly agreed. Improvements centered on integration of sight image enhancements were concluded in FY13. Other efforts have focused on providing engineering and technical support which include the study of densified propellant, Saber battery replacement, Saber battery storage container and the test launch stand for the Saber system (far-target location accuracy improvements). The traversing unit upgrades/improvements, battlefield networking communications capability and a laser designation capability have been postponed due to prioritization of Saber battery upgrade/replacement efforts.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Densified Propellant Articles: FY 2013 Accomplishments: Funds supported the investigation of using densified propellant (DP) to reduce back blast, to reduce acoustic emissions and to increase impulse. FY 2014 Plans: Funds will support the continued investigation and qualification to use densified propellant. FY 2015 Plans: Funds will support the qualification of densified propellant.									1.057	0.539	0.200	
									-	-	-	
Title: Saber Battery Replacement Articles: FY 2013 Accomplishments: NA FY 2014 Plans:									-	0.382	0.805	
									-	-	-	

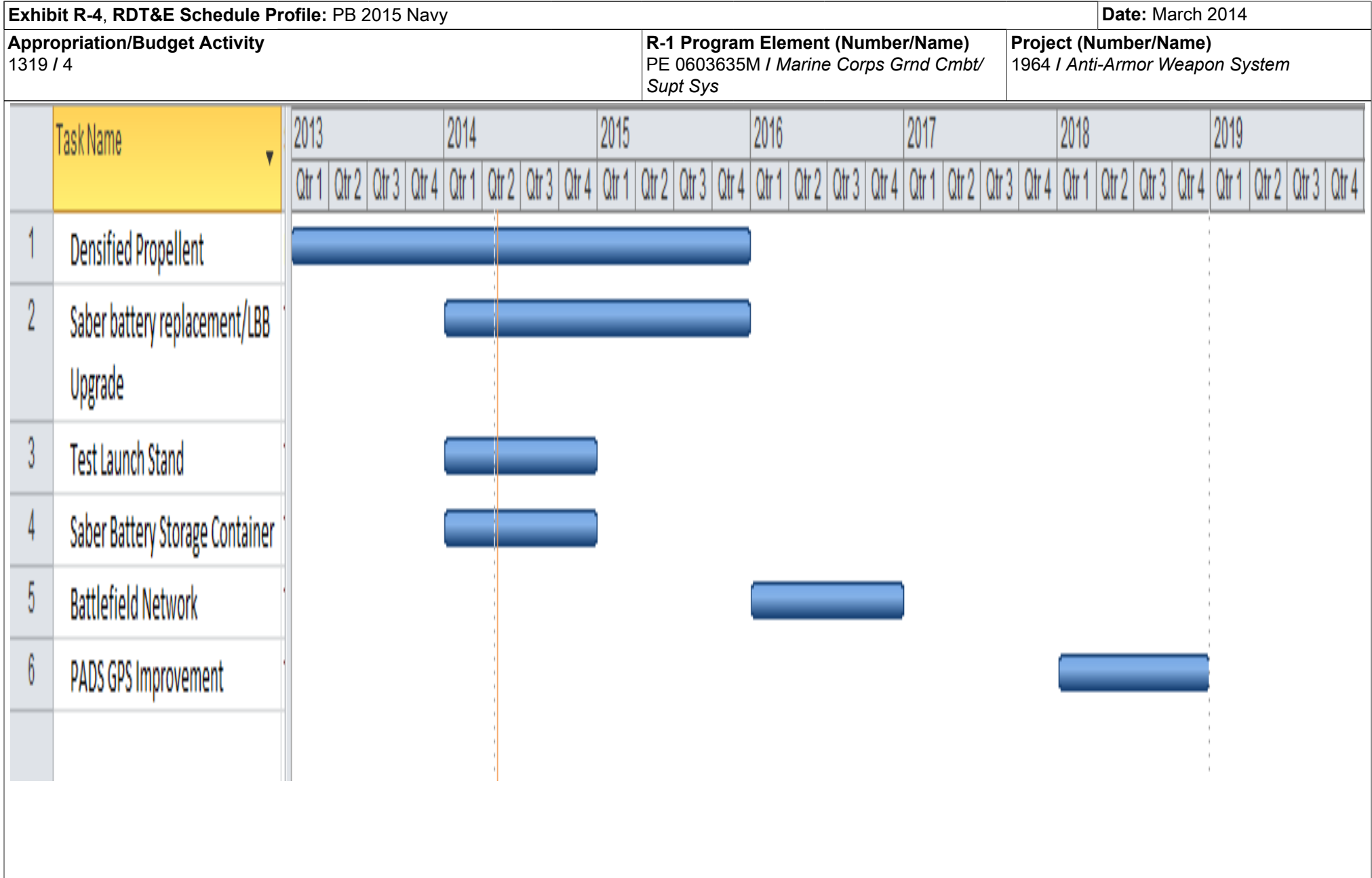
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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014	
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603635M / <i>Marine Corps Grnd Cmbt/ Supt Sys</i>	Project (Number/Name) 1964 / <i>Anti-Armor Weapon System</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
Funds will support the research of a replacement battery for Saber that will have reduced safety concerns, with the same or increased power and longevity capability.			
FY 2015 Plans: Funds will support the continuation of research and the qualification of any replacement battery developed.			
Title: Test Launch Stand		-	0.174
Articles:		-	-
FY 2013 Accomplishments: NA			
FY 2014 Plans: Funds will support the investigation and qualification of a missile launch testing capability to qualify missiles without user or system error being introduced into the test.			
FY 2015 Plans: NA			
Title: Saber Battery Storage Container		-	0.048
Articles:		-	-
FY 2013 Accomplishments: NA			
FY 2014 Plans: Funds will support the investigation and qualification of a battery storage container which will have the capability of containing a large format lithium battery fire.			
FY 2015 Plans: NA			
Accomplishments/Planned Programs Subtotals		1.057	1.143
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			

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Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603635M / Marine Corps Grnd Cmbt/ Supt Sys	Project (Number/Name) 1964 / Anti-Armor Weapon System
D. Acquisition Strategy The Saber system is a joint program with the U.S. Army. In FY13-15 funding supports the development, integration, and qualification of incremental improvements to the Saber system to meet objective requirements for the system and to assess emergent technologies.		
E. Performance Metrics N/A		

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Appropriation/Budget Activity 1319 / 4					R-1 Program Element (Number/Name) PE 0603635M / Marine Corps Grnd Cmbt/ Supt Sys				Project (Number/Name) 2614 / SMAW Follow-On			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2614: SMAW Follow-On	21.834	7.343	0.346	0.337	-	0.337	0.347	0.361	0.367	0.374	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
During FY10-12, the development of the Shoulder-Launched-Multipurpose Assault Weapon (SMAW) II system, which is the original solution to the Follow-On-To SMAW (FOTS) requirement, experienced numerous technical and programmatic challenges. The program rebaselined multiple times, each one adding considerable cost and schedule growth to the original baseline. The Program Office, with concurrence from the MDA, elected to allow the SMAW II effort to expire and explore alternate methods for satisfying the FOTS requirement. A new effort has begun and is described below.												
The solution to the FOTS requirement is the SMAW Mod 2 system. The mission of the SMAW Mod 2 is to provide short-range assault fires in support of infantry forces attacking fortified position and urban structures under all field and environmental conditions. This includes employment under Mission Oriented Protective Posture (MOPP) IV Level Chemical, Biological, Radiological and Nuclear (CBRN) conditions. The SMAW Mod 2 consists of a new SMAW launcher that will be physically and functionally compatible with all current SMAW ammunition variants. Additionally, work is being performed to develop new propellant technologies for an enhanced rocket motor.												
During FY13, the development and integration of the SMAW Mod 2 system was completed and ready for Initial Operational Test and Evaluation (IOT&E). During FY14, IOT&E is planned to be performed on the launcher prior to the development and release of the Full Rate Production Request For Proposal. Additionally, development of the Densified Propellant will begin. In FY15, Full Rate Production of the SMAW Mod 2 launcher will begin and work will continue on the Densified Propellant.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Systems integration and qualification. Articles: FY 2013 Accomplishments: Purchased rockets from Ammo for use with Initial Operational Test & Evaluation (IOT&E). FY 2014 Plans: N/A FY 2015 Plans: N/A									0.278	-	-	
									-	-	-	
Title: Engineer and technical support.									3.214	0.246	0.337	
Articles:									-	-		

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Appropriation/Budget Activity 1319 / 4		R-1 Program Element (Number/Name) PE 0603635M / <i>Marine Corps Grnd Cmbt/ Supt Sys</i>		Project (Number/Name) 2614 / <i>SMAW Follow-On</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2013	FY 2014	FY 2015
<i>FY 2013 Accomplishments:</i> Provided engineering support for SMAW Mod 2 development and testing. Provided review of all contract technical deliverables.					
<i>FY 2014 Plans:</i> Provide engineering support for the development and testing of the Densified Propellant.					
<i>FY 2015 Plans:</i> Will provide engineering support for the development and testing of the Densified Propellant.					
<i>Title:</i> Government program management/in-house support.			2.715	-	-
<i>Articles:</i>			-	-	-
<i>FY 2013 Accomplishments:</i> Provided administrative and technical support to all programmatic and technical reviews; maintained programmatic documentation change management system; maintained Contract Data Requirements List (CDRL) deliverables review and management system; participated in all program Integrated Product Teams (IPTs); updated the SMAW Mod 2 Supportability Planned and prepared all Acquisition Logistics documentation; maintained the SMAW Mod 2 Life Cycle Cost Estimate (LCCE); provided Earned Value Management System (EVMS) analytical support; managed Action Item database.					
<i>FY 2014 Plans:</i> N/A					
<i>FY 2015 Plans:</i> N/A					
<i>Title:</i> Operational test support planning and document preparation			1.136	0.100	-
<i>Articles:</i>			-	-	-
<i>FY 2013 Accomplishments:</i> Conducted and reported the results of the SMAW Mod 2 IOT&E; provide operational test expertise to all programmatic and technical reviews.					
<i>FY 2014 Plans:</i> Conduct and report the results of the SMAW Mod 2 launcher IOT&E; provide operational test expertise to all programmatic and technical reviews.					
<i>FY 2015 Plans:</i> N/A					
Accomplishments/Planned Programs Subtotals			7.343	0.346	0.337

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Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603635M / <i>Marine Corps Grnd Cmbt/ Supt Sys</i>	Project (Number/Name) 2614 / <i>SMAW Follow-On</i>	

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

<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PMC/301600: <i>Follow on to SMAW</i>	5.449	0.105	4.995	-	4.995	29.729	24.919	0.564	0.022	-	124.541

Remarks

D. Acquisition Strategy

FY13-15 strategy is to complete development and qualification of the SMAW MOD 2 system (i.e. new SMAW Launcher).

E. Performance Metrics

Milestone Reviews; Technical Reviews.

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Navy

Date: March 2014

Appropriation/Budget Activity

1319 / 4

R-1 Program Element (Number/Name)

PE 0603635M / Marine Corps Grnd Cmbt/
Supt Sys

Project (Number/Name)

2614 / SMAW Follow-On



SMAW MK-153 MOD 2 SCHEDULE

