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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Navy										Date: May 2017		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy I BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0604320M I Rapid Technology Capability Prototype							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	7.055	-	7.055	7.196	7.340	7.487	7.637	Continuing	Continuing
0386: Rapid Prototype Development, Marine Corps	0.000	0.000	0.000	7.055	-	7.055	7.196	7.340	7.487	7.637	Continuing	Continuing

**Note**

This PE is a new-start for FY18.

**A. Mission Description and Budget Item Justification**

The Commandant of the Marine Corps (CMC) directed the formation of the Marine Corps Rapid Capabilities Office (MCRCO) to accelerate the identification, development and assessment of capabilities that appear to offer significant military utility. The MCRCO will seek emergent and disruptive technology to rapidly develop and deliver operational prototypes that increase Operating Forces' survivability and lethality, and that will inform requirement development and investment planning. Prototypes to be assessed will be at a Technology Readiness Level 7 or higher and can be either non developmental government off the shelf, non-developmental commercial off the shelf, or developmental items.

<b><u>B. Program Change Summary (\$ in Millions)</u></b>	<b><u>FY 2016</u></b>	<b><u>FY 2017</u></b>	<b><u>FY 2018 Base</u></b>	<b><u>FY 2018 OCO</u></b>	<b><u>FY 2018 Total</u></b>
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	7.055	-	7.055
Total Adjustments	0.000	0.000	7.055	-	7.055
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	7.055	-	7.055

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy										Date: May 2017		
Appropriation/Budget Activity 1319 / 4					R-1 Program Element (Number/Name) PE 0604320M / Rapid Technology Capability Prototype				Project (Number/Name) 0386 / Rapid Prototype Development, Marine Corps			
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
0386: Rapid Prototype Development, Marine Corps	0.000	0.000	0.000	7.055	-	7.055	7.196	7.340	7.487	7.637	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**Note**

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**A. Mission Description and Budget Item Justification**

The Commandant of the Marine Corps (CMC) directed the formation of the Marine Corps Rapid Capabilities Office (MCRCO) to accelerate the identification, development and assessment of capabilities that appear to offer significant military utility. The MCRCO will seek emergent and disruptive technology to rapidly develop and deliver operational prototypes that increase Operating Forces' survivability and lethality, and that will inform requirement development and investment planning. Prototypes to be assessed will be at a Technology Readiness Level 7 or higher and can be either non developmental government off the shelf, non-developmental commercial off the shelf, or developmental items.

MCRCO is not an acquisition program. MCRCO implements one-time buys of various capabilities for operational assessments and does not sustain nor provide enduring support beyond the operational assessment period. If a capability requires sustainment and enduring support it will transition to the traditional acquisition process.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
<b>Title:</b> Product Development	0.000	0.000	5.630	0.000	5.630
<b>Articles:</b>	-	-	-	-	-
<b>FY 2016 Accomplishments:</b> N/A					
<b>FY 2017 Plans:</b> N/A					
<b>FY 2018 Base Plans:</b> - Initiate Certifications/Studies/Reports and Prototype Purchase/Development/Integration of MCRCO portfolio: - Initiate product development of Tactical Electro-Magnetic Spectrum capabilities. - Initiate product development of unmanned aerial, surface, and underwater vehicles (UAV, USV, and UUV) swarm capability.					

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Appropriation/Budget Activity 1319 / 4		R-1 Program Element (Number/Name) PE 0604320M / Rapid Technology Capability Prototype		Project (Number/Name) 0386 / Rapid Prototype Development, Marine Corps		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
- Initiate product development of a Long Range Precision Fires capability.						
FY 2018 OCO Plans: N/A						
Title: Support		0.000	0.000	1.050	0.000	1.050
Articles:		-	-	-	-	-
FY 2016 Accomplishments: N/A						
FY 2017 Plans: N/A						
FY 2018 Base Plans: - Initiate Operational Force Assessments of MCRCO portfolio: - Initiate support of Tactical Electro-Magnetic Spectrum capabilities. - Initiate support of unmanned aerial, surface, and underwater vehicles (UAV, USV, and UUV) swarm capability. - Initiate support development and operational assessment of a Long Range Precision Fires capability.						
FY 2018 OCO Plans: N/A						
Title: Management		0.000	0.000	0.375	0.000	0.375
Articles:		-	-	-	-	-
FY 2016 Accomplishments: N/A						
FY 2017 Plans: N/A						
FY 2018 Base Plans: - Initiate Management Services of the new-start MCRCO: Engineering Analysis and program office support						
FY 2018 OCO Plans: N/A						
Accomplishments/Planned Programs Subtotals		0.000	0.000	7.055	0.000	7.055

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> FY 2018 Navy		<b>Date:</b> May 2017
<b>Appropriation/Budget Activity</b> 1319 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604320M / <i>Rapid Technology Capability Prototype</i>	<b>Project (Number/Name)</b> 0386 / <i>Rapid Prototype Development, Marine Corps</i>
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A		
<b>Remarks</b>		
<b>D. Acquisition Strategy</b> <p>The MCRCO Process consists of three phases, Identify, Assess, and Inform, where each have unique function support of the mission. All MCRCO projects will align to this phased approach. In the Identify Phase the MCRCO undertakes a continuous process of investigation and compiling of technologies, concepts, and prototypes for various capability areas. Activities in this phase include but are not limited to research, war gaming/lectures/and external experiment attendance, industry and FFRDC engagements, Innovation Portal Challenges and Forums, gap identification, and emerging technology analysis. This is also where the MCRCO portfolio of projects are determined and approved for execution.</p> <p>In the Assess Phase the operational assessments are performed by the MCRCO. These assessments of capability prototypes are categorized by complexity of effort and the perceived time it will take to conduct the assessment. The Capability Assessment Categories (CAC) are:</p> <p>CAC 1 - Non Developmental Capability Prototype - Plug and Play (1-90 days)</p> <p>CAC 2 - Integration Capability Prototype -Reconfigure and Play (91-180 days)</p> <p>CAC 3 - Developmental Capability Prototype - Develop and Play (181-360 days)</p> <p>The assess phase has three utility focuses that prototypes must demonstrate prior to being assessed: Military Utility, Enabling Competition, and Lifecycle Affordability. The Inform Phase not only provides the results of the assessment event, but it also tracks the performance of the acquisition process. The goal is to deliver the capability rapidly to support warfighter requirements . It focuses its efforts on measuring the time it takes for key acquisition events to occur. These events include but are not limited to requirements transition, contract award, production, test, and fielding. Other Measure of Effectiveness will focus on costs and rework associated with acquisition process.</p>		
<b>E. Performance Metrics</b> <p>There will be 33% and 66% assessment reviews, where assessments will either continue forward to completion or project ended. All reviews will be documented in the Capability Assessment Report.</p>		