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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Office of the Secretary Of Defense											Date: May 2017	
Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					R-1 Program Element (Number/Name) PE 0604132D8Z I <i>Missile Defeat Project</i>							
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	185.500	98.369	-	98.369	0.000	0.000	0.000	0.000	Continuing	Continuing
P072: <i>Missile Defeat Project</i>	0.000	0.000	185.500	98.369	-	98.369	0.000	0.000	0.000	0.000	Continuing	Continuing
Program MDAP/MAIS Code:												
Project MDAP/MAIS Code(s): 000												
Note This is a new program element in FY 2017. Previous funding was through various FY 2014, FY 2015, and FY 2016 OUSD program elements including: PE 0602234D8Z (Lincoln Laboratory), PE 0603160BR (Counter-proliferation Initiatives - DTRA), PE 0603699D8Z (Emerging Capabilities Technology Development), and a few classified program elements.												
A. Mission Description and Budget Item Justification The Missile Defeat Project counters the growing global advancement and proliferation of road-mobile ballistic missile threats. This effort develops and integrates new capability and architectures to optimize fielded weapon systems and C4ISR to defeat these emerging threats. The Missile Defeat Project coordinates and integrates DoD and Intelligence Community (IC) efforts to develop counter threat capability. This effort measures the effectiveness of new architectures and revolutionary concepts against evolving threats by working with the IC, Combatant Commands, government labs, program offices, industry, and academia. To meet this challenge the Missile Defeat Project leverages existing test and simulated environments to perform analysis of industry and government reference concepts and architectures to provide innovative technical solutions for missile defeat. We are developing virtual and physical testbeds to robustly test, evaluate, and prototype architectures and assess their ability to improve time critical targeting and defeat of road-mobile threats. The virtual testbed complements testing at physical ranges by providing an infrastructure for addressing different training, test, and evaluation needs. This effort also includes systems engineering and analysis to devolve technical requirements, identify promising solutions, and inform future investment decisions.												

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B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	0.000	45.000	46.000	-	46.000
Current President's Budget	0.000	185.500	98.369	-	98.369
Total Adjustments	0.000	140.500	52.369	-	52.369
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustment	-	-	52.678	-	52.678
• DTIC Offset	-	-	-0.309	-	-0.309
• FY 2017 Request for Additional Appropriation	-	140.500	-	-	-

Change Summary Explanation

Activities within this document reflect headquarter-wide efficiency initiatives.

The amended budget request for an additional \$140.500 million is required to address emergency warfighting readiness requirements.

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Appropriation/Budget Activity 0400 / 4					R-1 Program Element (Number/Name) PE 0604132D8Z / <i>Missile Defeat Project</i>				Project (Number/Name) P072 / <i>Missile Defeat Project</i>			
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
P072: <i>Missile Defeat Project</i>	0.000	0.000	185.500	98.369	-	98.369	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Project MDAP/MAIS Code: 000												
Note This is a new program element in FY 2017. Previous funding was through various FY 2014, FY 2015, and FY 2016 OUSD program elements including: PE 0602234D8Z (Lincoln Laboratory), PE 0603160BR (Counter-proliferation Initiatives - DTRA), PE 0603699D8Z (Emerging Capabilities Technology Development), and a few classified program elements.												
A. Mission Description and Budget Item Justification The Missile Defeat Project coordinates and integrates joint DOD and Intelligence Community (IC) efforts to develop counter threat capability solutions in five key areas: 1) dynamic command and control; 2) intelligence, surveillance and reconnaissance; 3) responsive conventional counterforce; 4) national missile defense; and 5) an enduring demonstration and experimentation capability to integrate and measure the effectiveness of developed solutions. The Missile Defeat Project performs system engineering, integration, and modeling and simulation in support of the development of a set of system architectures. In addition, it develops integrated capability assessments with updated architectures and threat scenarios, defines and allocates options, expands functionality, and incorporates exercise results for missile defeat enterprise tools. The end-to-end systems engineering informs capability investments and requirement allocations across the missile defeat enterprise. The Missile Defeat Project is leveraging existing state of the art and emerging technology to offer game changing solutions for the department’s highest priorities. This technology is evaluated using new and novel concepts of operation to rapidly deliver improved time critical targeting, concepts of operation, and missile defeat to the warfighter. The Missile Defeat Project is developing an evolutionary roadmap to document an architecture that best utilizes the Nation’s resources to defeat the emerging threats.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2016	FY 2017	FY 2018	
Title: Previous Missile Defeat Project efforts									-	185.500	98.369	
Description: The Missile Defeat Project counters the growing global advancement and proliferation of ballistic missile threats through development of counter threat capability solutions that monitor, coordinate and integrate the Department of Defense (DoD) efforts. Missile Defeat is integrating existing capacity and identifying and developing new capabilities to address these threats.												
FY 2017 Plans:												

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2016	FY 2017	FY 2018
<ul style="list-style-type: none"> - In FY 2017, Missile Defeat Project will focus on development, integration and testing in five key areas: Dynamic command and control; Intelligence, surveillance and reconnaissance; Responsive conventional counterforce; National missile defense; and Enduring demonstration and experimentation capability. - Expand the time critical targeting end-to-end simulation to model additional architecture elements and functions. - Perform systems engineering to deliver initial overarching technical requirements documentation and analysis for candidate architectures. - Deliver detailed test objectives, test event planning, and post-test evaluation for time critical targeting test events in FY 2017. <p>FY 2017 Request for Additional Appropriations (RAA) Plans (\$140.500 Million):</p> <ul style="list-style-type: none"> - Advanced airborne Time Critical Targeting surrogate test platforms, \$48.000 million. - Game changing sensing demonstration satellite for find and fix, \$22.000 million. - Find and Mark Experiment for Mobile Missiles, \$7.200 million. - National security site modifications to test, evaluate, and prototype architectures and assess their ability to improve time critical targeting and defeat of road-mobile threats, \$51.300 million. - Advanced risk reduction demonstrations to improve observational persistence, \$12.000 million. <p>FY 2018 Plans:</p> <ul style="list-style-type: none"> - In FY 2018, Missile Defeat Project will evaluate results from development and testing to enhance experimental and existing system architectures for Missile Defeat. - Deliver architecture improvements to enhance time critical targeting. - Develop and deliver prototype hardware and software for evaluation during test events. - Deliver component, system, and architecture analysis to the warfighter for recommendations on improved time critical targeting, concepts of operation, and missile defeat. - Perform systems engineering to deliver technical requirements documentation and analysis of candidate architectures. - Deliver detailed test objectives, test event planning, and post-test evaluation for time critical targeting test events in FY 2018. 					
Accomplishments/Planned Programs Subtotals			-	185.500	98.369
C. Other Program Funding Summary (\$ in Millions)					
N/A					
Remarks					

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<p><u>D. Acquisition Strategy</u></p> <p>The acquisition strategy consists of partnering with small businesses, industry, Federally Funded Research and Development Centers and University Affiliated Research Centers. OSD will leverage DoD, the Intelligence Community, and government model-based assessments to inform Better Buying Power philosophy acquisition decisions.</p> <p><u>E. Performance Metrics</u></p> <p>N/A</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Office of the Secretary Of Defense													Date: May 2017		
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Test and Evaluation (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Various	C/TBD	MULTI : MULTI	-	-		185.500		98.369		-		98.369	Continuing	Continuing	-
Subtotal			-	-		185.500		98.369		-		98.369	-	-	-
			Prior Years	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		185.500		98.369		-		98.369	-	-	-
Remarks N/A															

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 Office of the Secretary Of Defense	Date: May 2017
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	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022			
	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
<i>Missile Defeat Project</i>																												
SIMEX																												
COCOM Exercise																												
SIMEX 2																												
Time Critical Targeting Demonstration																												

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Exhibit R-4A, RDT&E Schedule Details: FY 2018 Office of the Secretary Of Defense	Date: May 2017
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Missile Defeat Project</i>				
SIMEX	1	2018	1	2018
COCOM Exercise	2	2018	2	2018
SIMEX 2	3	2018	3	2018
Time Critical Targeting Demonstration	4	2018	4	2018