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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2021 Office of the Secretary Of Defense **Date:** February 2020

<b>Appropriation/Budget Activity</b> 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)	<b>R-1 Program Element (Number/Name)</b> PE 0604132D8Z I Missile Defeat Project
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	259.375	41.961	14.816	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
072: Missile Defeat Project	259.375	41.961	14.816	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

**Program MDAP/MAIS Code:**  
**Project MDAP/MAIS Code(s):** 000

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

The Missile Defeat Project counters the growing global advancement and proliferation of road-mobile ballistic missile threats. The Missile Defeat Project coordinated and integrated Department of Defense and Intelligence Community efforts to develop counter-threat capability. In order to carry out the important role initiated by Missile Defeat, in accordance with the National Defense Authorization Act for FY 2017, the Missile Defeat Project transferred activities initiated under Missile Defeat to other stakeholders starting in FY 2019. In FY 2021 residual resources and capabilities are transferred to Program Element 0603338D8Z (Defense Modernization and Prototyping) in support of an expanded Multi-Domain Time Sensitive Targeting and Defeat (TSTD) alignment of key technology development and modernization effort.

Activities will be coordinated with the Services, appropriate Agencies, and the Combatant Commands to transition these developments into viable warfighting capabilities.

<b>B. Program Change Summary (\$ in Millions)</b>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO</u>	<u>FY 2021 Total</u>
Previous President's Budget	43.508	17.816	9.897	-	9.897
Current President's Budget	41.961	14.816	0.000	-	0.000
Total Adjustments	-1.547	-3.000	-9.897	-	-9.897
• Congressional General Reductions	-	-	-	-	-
• Congressional Directed Reductions	-	-3.000	-	-	-
• Congressional Rescissions	-	-	-	-	-
• Congressional Adds	-	-	-	-	-
• Congressional Directed Transfers	-	-	-	-	-
• Reprogrammings	-	-	-	-	-
• SBIR/STTR Transfer	-1.540	-	-	-	-
• Transfer to new Program Element (0603338D8Z)	-	-	-9.897	-	-9.897
• Other Program Adjustments	-0.007	-	-	-	-

**Change Summary Explanation**

The FY 2020 Congressional reduction of \$3.000 million was directed due to justification criteria.

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<b>Appropriation/Budget Activity</b>	<b>R-1 Program Element (Number/Name)</b>
0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	PE 0604132D8Z / <i>Missile Defeat Project</i>

Effective FY 2021, residual resources are transferred to Program Element 0603338D8Z (Defense Modernization and Prototyping) to provide alignment, transparency and focus supporting development of key technologies and modernization within OUSD(R&E) identified capability thrust priorities.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2021 Office of the Secretary Of Defense **Date:** February 2020

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604132D8Z / <i>Missile Defeat Project</i>	<b>Project (Number/Name)</b> 072 / <i>Missile Defeat Project</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
072: <i>Missile Defeat Project</i>	259.375	41.961	14.816	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Project MDAP/MAIS Code:** 000

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

The Time Sensitive Target Defeat (TSTD) transferred all initiated activities to the Office of Under Secretary of Defense for Research and Engineering (OUSD(R&E)), Time Sensitive Target Defeat Office in FY 2019. The residual resources are transferred to Program Element 0603338D8Z (Defense Modernization and Prototyping) to provide alignment and focus supporting development of key technologies and modernization within OUSD(R&E) identified capability thrust priorities.

**B. Accomplishments/Planned Programs (\$ in Millions)**

	FY 2019	FY 2020	FY 2021
<b>Title:</b> Missile Defeat Project efforts	41.961	14.816	0.000
<p><b>Description:</b> Missile Defeat will support the operational demonstration and assessments of sensors, command and control (C2), processing, exploitation, and dissemination (PED), and transition of residual capabilities to mission partners.</p> <p>Missile Defeat Accomplishments:</p> <ul style="list-style-type: none"> <li>• Completed the transition of the Pack Hunt decision aid collection management tool enhancement to evolve the operational state of the environment.</li> <li>• Accomplished Upstream Data Fusion and Machine-to-Machine enhancement to increase the wide area F2T2 against TST.</li> <li>• Integrated enhancement to the CIP enhancement by fusing a myriad of tactical and national data feeds in near-real time.</li> <li>• Instituted SNAPGLASS to fill existing seams across an element of kill chains to reduce latency.</li> <li>• Executed JUKEBOX 18 live fly to demonstrate and incorporated prototype capabilities to enable new kill webs for future weapon system.</li> <li>• Demonstrated the deployment of SAR and C2 payloads during JB18 to show case the evolution of future warfare.</li> </ul> <p><b>FY 2020 Plans:</b> Missile Defeat shall experiment with tripwire balloon capabilities to host a series of mission payloads that will enable left of launch capabilities during the Integrated Joint Combined Arms Demonstration Campaign. FY 2020 initiative continues to experiment with Skyfall to advance small satellite system while enable game changing capabilities. The PSASM operational planning tool shall enable the end-to-end kill chain for time critical targets in INDOPACOM targeting cell. Missile Defeat will closeout its remaining initiative by executing the recommendations of SPMD by transitioning the experimentation and demonstration to Time Sensitive Targeting Defeat to support the multi-domain mission of the Department.</p> <p><b>FY 2021 Plans:</b></p>			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Office of the Secretary Of Defense	<b>Date:</b> February 2020
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2019	FY 2020	FY 2021
Transition of residual Missile Defeat capability to PE 0603338D8Z / Defense Modernization and Prototyping.			
<b><i>FY 2020 to FY 2021 Increase/Decrease Statement:</i></b> - The FY 2020 to FY 2021 decrease is due to a transition of current activities to other stakeholders and Program Element 0603338D8Z (Defense Modernization and Prototyping).			
<b>Accomplishments/Planned Programs Subtotals</b>	41.961	14.816	0.000

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

N/A

**Remarks**

**D. Acquisition Strategy**

In order to carry out the important effort initiated by Missile Defeat, FY 2021 residual resources and capabilities are transferred to Program Element 0603338D8Z (Defense Modernization and Prototyping) in support of an expanded Multi-Domain Time Sensitive Targeting and Defeat (TSTD) alignment of key technology development and modernization.

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**Exhibit R-3, RDT&E Project Cost Analysis:** PB 2021 Office of the Secretary Of Defense **Date:** February 2020

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Test and Evaluation (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Various	C/TBD	MULTI : MULTI	259.375	41.961		14.816		-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			259.375	41.961		14.816		-		-		-	Continuing	Continuing	N/A
<b>Project Cost Totals</b>			259.375	41.961		14.816		-		-		-	Continuing	Continuing	N/A

**Remarks**

N/A

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**Exhibit R-4, RDT&E Schedule Profile:** PB 2021 Office of the Secretary Of Defense **Date:** February 2020

<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604132D8Z / <i>Missile Defeat Project</i>	<b>Project (Number/Name)</b> 072 / <i>Missile Defeat Project</i>
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FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
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

<b><i>Missile Defeat Project</i></b>	
Project TRIPPWIRE Concept Experimentation and Transition to Service	
C2PED Prototyping Enhancements Concept Experimentation TSTD	
Establish TSTD Roadmap	
Proposed Cyber, Bi-Static, and AI/ML PED Capabilities	
Continue portfolio development activities in support of end-to-end kill chain	

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2021 Office of the Secretary Of Defense **Date:** February 2020

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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Missile Defeat Project</i></b>				
Project TRIPPWIRE Concept Experimentation and Transition to Service	1	2019	4	2020
C2PED Prototyping Enhancements Concept Experimentation TSTD	1	2019	4	2020
Establish TSTD Roadmap	1	2019	4	2020
Proposed Cyber, Bi-Static, and AI/ML PED Capabilities	1	2019	4	2020
Continue portfolio development activities in support of end-to-end kill chain	1	2019	4	2020