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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: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605022D8Z I <i>Defense Exportability Features (DEF) Program</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
Total Program Element	16.323	1.455	12.115	12.928	-	12.928	10.648	10.562	19.106	19.477	Continuing	Continuing
013: <i>Defense Exportability Features (DEF) Program</i>	16.323	1.455	12.115	12.928	-	12.928	10.648	10.562	19.106	19.477	Continuing	Continuing

**Note**

The funding request for the Defense Exportability Features (DEF) Program for FY 2020 - 2025 reflects new, higher demand for funds as the Department of Defense (DoD) increasingly makes integration of exportability features a standard part of the DoD's requirements development and defense acquisition system. As reflected in the new guidance in the Joint Requirements Oversight Council Memorandum (JROCM) 025-19 signed by the Vice Chairman of the Joint Chiefs of Staff (VCJCS) on April 15, 2019, DoD will update the Joint Capabilities Integration and Development System (JCIDS) Manual to make it standard practice to include the requirements for exportability in a system's capability requirements documents

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

The DEF program funds activities to support identification of major defense acquisition programs for possible export and the planning for design and incorporation of exportability features during the research and development phases of these programs. Features include, but are not limited to, technology and engineering design activities such as capability differentials, anti-tamper, system assurance, and software assurance. Activities include the development of program protection strategies for the program; the design and incorporation of exportability features into the system; implementation of exportability requirements into contracts; and other research, development, test, and evaluation activities.

Defense exportability features play a critically important role in DoD efforts to build partnership capacity. Funds support building joint and coalition environments by enabling the export of DoD systems to a wide range of partner nations, resulting in improved security and interoperability. In addition to the operational benefits, by providing these resources up front, the United States and partner nations will save significant resources by more efficiently designing and producing exportable U.S. systems.

Experience has shown that failure to identify the full range of Critical Program Information (CPI) early in a DoD program's design phase can drive major affordability and schedule problems later when programs have to "retrofit" program protection measures prior to export. Early development of export variants, including systems design approaches to integrate exportable anti-tamper protection and differential capability requirements to lower production costs, makes it possible to improve quality and timely deliveries to allies and friends and may enhance US industry share of the global marketplace.

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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
Previous President's Budget	1.489	17.615	14.445	-	14.445
Current President's Budget	1.455	12.115	12.928	-	12.928
Total Adjustments	-0.034	-5.500	-1.517	-	-1.517
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.031	-			
• FFRDC	-0.003	-	-	-	-
• Congresssional Reduction	-	-5.500	-	-	-
• Other Program Adjustments	-	-	-0.751	-	-0.751
• Defense Wide Review	-	-	-0.766	-	-0.766

**Change Summary Explanation**

The FY 2021 funding request was reduced by \$0.766 million as a result of the Defense Wide Review, which focused on the Secretary's guidance to streamline operations, increase efficiency, and promote greater affordability within the OSD and Defense Agencies and Field Activities in order to ensure the Department's optimum alignment to the National Defense Strategy and DoD strategic guidance, with particular focus on building a more lethal, resilient, agile, and ready force while strengthening alliances, prioritizing cyber and space capabilities, and focusing on innovation to maintain the technological advantage."

An additional \$0.751 million dollars was re-aligned to support planned program changes within the Office of the Under Secretary of Defense Acquisition and Sustainment OUSD(A&S).

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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		
<b>Appropriation/Budget Activity</b> 0400 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0605022D8Z / Defense Exportability Features (DEF) Program				<b>Project (Number/Name)</b> 013 / Defense Exportability Features (DEF) Program			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
013: Defense Exportability Features (DEF) Program	16.323	1.455	12.115	12.928	-	12.928	10.648	10.562	19.106	19.477	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The DEF program funds activities to support identification of major defense acquisition programs for possible export and the planning for design and incorporation of exportability features during the research and development phases of these programs. Features include, but are not limited to, technology and engineering design activities such as capability differentials, anti-tamper, system assurance, and software assurance. Activities include the development of program protection strategies for the program; the design and incorporation of exportability features into the system; implementation of exportability requirements into contracts; and other research, development, test, and evaluation activities.

Defense exportability features play a critically important role in DoD efforts to build partnership capacity. Funds support building joint and coalition environments by enabling the export of DoD systems to a wide range of partner nations, resulting in improved security and interoperability. In addition to the operational benefits, by providing these resources up front, the United States and partner nations will save significant resources by more efficiently designing and producing exportable U.S. systems.

Failure to consider export variant designs early in the acquisition process results in increased costs, delayed delivery, and higher risk of sensitive technology compromise. Early development of export variants, including systems design approaches to integrate exportable anti-tamper protection and differential capability requirements to lower production costs, makes it possible to improve quality and timely deliveries to allies and friends and may enhance US industry share of the global marketplace.

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

	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
<b>Title:</b> DEF program	1.455	12.115	12.928
<b>Description:</b> The DEF program enables DoD programs to develop and incorporate technology protection features in designated systems during the research and development phase of such systems to prepare them for export. By facilitating the export of US defense systems, the DoD enhances the US defense industrial base, strengthens the military capabilities of US allies around the world, and increases coalition interoperability.			
<b>FY 2020 Plans:</b>			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>
<p>Provide follow-on funding to the Army's Lower Tier Air and Missile Defense Sensor (LTAMDS) and Indirect Fire Protection Capability (IFPC) Inc. programs to continue exportability planning activities. Provide initial funding to programs that have been selected to the DEF Program during the FY 2020 nomination cycle.</p> <p><b>FY 2021 Plans:</b> Provide funding to help DoD programs plan for exportability in line with recent changes to DoD guidance, such as the Joint Requirements Oversight Council Memorandum (JROCM) signed by the Vice Chairman of the Joint Chiefs of Staff (VCJCS) on April 15, 2019, that make exportability planning the rule. In particular, support several modernization priority programs to plan for exportability to allies and partners.</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> The increase of \$0.813 million between FY 2020 and FY 2021 is the result of planned program changes in OUSD(A&amp;S).</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	1.455	12.115	12.928

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

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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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Product Development (\$ 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			
DEF	TBD	Various : Various	16.323	1.455		12.115		12.928		-		12.928	Continuing	Continuing	-
<b>Subtotal</b>			16.323	1.455		12.115		12.928		-		12.928	Continuing	Continuing	N/A
<b>Project Cost Totals</b>			16.323	1.455		12.115		12.928		-		12.928	Continuing	Continuing	N/A

**Remarks**  
 The funding request for the Defense Exportability Features (DEF) Program for FY 2020 - FY 2025 reflects new, higher demand for funds as the Department of Defense (DoD) increasingly makes integration of exportability features a standard part of the DoD's requirements development and defense acquisition system. As reflected in the new guidance in the Joint Requirements Oversight Council Memorandum (JROCM) 025-19 signed by the Vice Chairman of the Joint Chiefs of Staff (VCJCS) on April 15, 2019, DoD will update the Joint Capabilities Integration and Development System (JCIDS) Manual to make it standard practice to include the requirements for exportability in a system's capability requirements documents

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2021 Office of the Secretary Of Defense		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 0400 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605022D8Z / <i>Defense Exportability Features (DEF) Program</i>	<b>Project (Number/Name)</b> 013 / <i>Defense Exportability Features (DEF) Program</i>

	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>Defense Exportability Features (DEF)</i></b>																												
FY 2019 Project Selection	■																											
FY 2019 Project Execution	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
FY 2020 Project Selection				■																								
FY 2020 Project Execution				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
FY 2021 Project Selection							■																					
FY 2021 Project Execution								■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
FY 2022 Project Selection											■																	
FY 2022 Project Execution												■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
FY 2023 Project Selection														■														
FY 2023 Project Execution															■	■	■	■	■	■	■	■	■	■	■	■	■	
FY 2024 Project Selection																												
FY 2024 Project Execution																											■	
FY 2025 Project Selection																											■	
FY 2025 Project Execution																											■	

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2021 Office of the Secretary Of Defense		<b>Date:</b> February 2020
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Defense Exportability Features (DEF)</i></b>				
FY 2019 Project Selection	1	2019	1	2019
FY 2019 Project Execution	1	2019	4	2020
FY 2020 Project Selection	4	2019	4	2019
FY 2020 Project Execution	1	2020	4	2021
FY 2021 Project Selection	4	2020	4	2020
FY 2021 Project Execution	1	2021	4	2022
FY 2022 Project Selection	4	2021	4	2021
FY 2022 Project Execution	1	2022	4	2023
FY 2023 Project Selection	4	2022	4	2022
FY 2023 Project Execution	1	2023	4	2024
FY 2024 Project Selection	4	2023	4	2023
FY 2024 Project Execution	1	2024	4	2025
FY 2025 Project Selection	4	2024	4	2024
FY 2025 Project Execution	1	2025	4	2025