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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Office of the Secretary Of Defense **Date:** May 2021

Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0605022D8Z I Defense Exportability Features (DEF) Program							
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	17.778	11.864	12.920	5.447	0.000	5.447	-	-	-	-	-	-
013: Defense Exportability Features (DEF) Program	17.778	11.864	12.920	5.447	0.000	5.447	-	-	-	-	-	-

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 U.S. industry share of the global marketplace.

B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	12.115	12.928	10.648	0.000	10.648
Current President's Budget	11.864	12.920	5.447	0.000	5.447
Total Adjustments	-0.251	-0.008	-5.201	0.000	-5.201
• Congressional General Reductions	-	-0.008			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.249	-			
• Program Adjustments	-0.002	-	-5.201	0.000	-5.201

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Appropriation/Budget Activity
0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 5:
System Development & Demonstration (SDD)

R-1 Program Element (Number/Name)
PE 0605022D8Z / *Defense Exportability Features (DEF) Program*

Change Summary Explanation

The FY 2022 funding request was reduced by \$4.907 million to account for the availability of prior year execution balances.

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Office of the Secretary Of Defense										Date: May 2021		
Appropriation/Budget Activity 0400 / 5					R-1 Program Element (Number/Name) PE 0605022D8Z / Defense Exportability Features (DEF) Program				Project (Number/Name) 013 / Defense Exportability Features (DEF) Program			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
013: Defense Exportability Features (DEF) Program	17.778	11.864	12.920	5.447	0.000	5.447	-	-	-	-	-	-
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.

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 U.S. industry share of the global marketplace.

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

	FY 2020	FY 2021	FY 2022
Title: DEF Program	11.864	12.920	5.447
Description: 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 U.S. defense systems, the DoD enhances the U.S. defense industrial base, strengthens the military capabilities of U.S. allies around the world, and increases coalition interoperability.			
FY 2021 Plans: Provide follow-on funding to the Army's Indirect Fire Protection Capability Increment Two (IFPC Inc. II) and Abrams Armor programs and the Navy's Tactical Combat Training System Increment Two (TCTS II) program to continue exportability planning			

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Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605022D8Z / <i>Defense Exportability Features (DEF) Program</i>	Project (Number/Name) 013 / <i>Defense Exportability Features (DEF) Program</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
<p>activities. Provide initial funding to 11 other programs that the Office of the Under Secretary of Defense Acquisition and Sustainment OUSD(A&S) selected to the DEF Program between FY 2017 and FY 2021.</p> <p>FY 2022 Plans: Provide follow-on funding to the Army's Future Vertical Lift (FVL) program, the Navy's Enhanced Visual Acuity (EVA) and Surface Anti-Submarine Warfare (ASW) Synthetic Trainer (SAST) programs, and the Air Force's Skyborg, Astro-Standards, and Integrated Solutions for Situation Awareness (ISSA) programs.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: The FY 2022 funding was decreased to account for the availability of prior year execution balances and to support departmental priorities.</p>				
Accomplishments/Planned Programs Subtotals		11.864	12.920	5.447
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 2022 Office of the Secretary Of Defense **Date:** May 2021

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605022D8Z / Defense Exportability Features (DEF) Program	Project (Number/Name) 013 / Defense Exportability Features (DEF) Program
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Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	17.778	11.864		12.920		5.447		-		5.447	-	-	-
Subtotal			17.778	11.864		12.920		5.447		-		5.447	-	-	N/A
Project Cost Totals			17.778	11.864		12.920		5.447		-		5.447	-	-	N/A

Remarks
N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Office of the Secretary Of Defense		Date: May 2021
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605022D8Z / Defense Exportability Features (DEF) Program	Project (Number/Name) 013 / Defense Exportability Features (DEF) Program

	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026						
	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			
Defense Exportability Features (DEF)																															
FY 2020 Project Execution	████████████████																														
FY 2021 Project Selection				██																											
FY 2021 Project Execution					████████████████																										
FY 2022 Project Selection								██																							
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FY 2026 Project Selection																								██							
FY 2026 Project Execution																									████████████████						

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Office of the Secretary Of Defense		Date: May 2021
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605022D8Z / Defense Exportability Features (DEF) Program	Project (Number/Name) 013 / Defense Exportability Features (DEF) Program

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Defense Exportability Features (DEF)				
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	2026
FY 2026 Project Selection	4	2025	4	2025
FY 2026 Project Execution	1	2026	4	2026