Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Office of the Secretary Of Defense	Date: March 2024
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*

COST ($ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	97.603	30.142	18.981	15.779	-	15.779	14.745	14.420	14.654	14.930	-	-
013: *Defense Exportability Features (DEF) Program*	97.603	30.142	18.981	15.779	0.000	15.779	14.745	14.420	14.654	14.930	-	-

Note

New Start (Y/N): No

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.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Office of the Secretary Of Defense	Date: March 2024
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*

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	30.145	18.981	16.640	-	16.640
Current President's Budget	30.142	18.981	15.779	-	15.779
Total Adjustments	-0.003	0.000	-0.861	-	-0.861
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other program adjustments	-0.003	0.000	-0.861	-	-0.861

Change Summary Explanation

The FY 2025 decrease of $0.861 million is to support other DoD administration and departmental priorities.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense			Date: March 2024
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 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
013: *Defense Exportability Features (DEF) Program*	97.603	30.142	18.981	15.779	0.000	15.779	14.745	14.420	14.654	14.930	-	-
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 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 2023	FY 2024	FY 2025
Title: DEF Program	30.142	18.981	15.779
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. Program activities funded by FY 2023 & FY 2024 funds include: • MQ-9A Block 1: Provided funding to develop, integrate, and test 1 MQ-9A Block 1 and Block 25 DCMGCS to establish exportability of the configuration. Testing Includes Ground Flight, HIL, and SIL testing. This also includes developing exportable			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense		Date: March 2024
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*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
MQ-9A Block 1 and Block 25 DCMGCS English language CSTOs and English language Aircrew and Maintenance Personnel Training Curriculum. • AN/MPQ-64A3 Sentinel F1 EP Software Enhancements: The planned scope of work includes EP Enhancements, integration and regression testing of EP Enhancements on the F1 SW Baseline and updating system and software requirements. • Astro-Standards (Space Force): Follow on work will continue the implementation of DEF Phase 1B-identified architecture and processes and building upon the foundation set by the first year's initial Phase 2 efforts, including continued prototyping of prioritized exportability features that could be tested and used for lessons learned about the development and delivery of future exportable-ready software capabilities. • Integrated Solutions for Situation Awareness (Space Force): Follow on work will continue implementation of DEF Phase 1B-identified architecture and processes. Building upon the foundation set by the current year's Phase 2 efforts, include continued prototyping of prioritized exportability features that could be tested and used for lessons learned about the development and delivery of future exportable-ready software capabilities. • Abrams Tank Systems Armor (Army): Follow on work will continue and the planned scope of work includes Integration of US Government selected armor design into the current M1A2 SEPv3 Abrams tank turret front armor cavities, provide a Preliminary Technical Data package, and conduct USG validation testing. • Indirect Fire Protection Capability (IFPC) Increment 2 (IFPC Inc 2) (Army): Follow on work will continue to develop an exportable version of the launcher and AUR-M. The DEF Phase 2A effort will transition the previous DEF studies' fundings and recommendations into the Request for Proposal (RFP) for the Low-Rate Initial Production (LRIP) contract. The Phase 2B effort will be the implementation of the hardware and software changes into the LRIP production assets. The objectives of these efforts are to have a fully exportable weapon system configuration available at Full Rate Production. ***FY 2024 Plans:*** • Plans Include: Follow-on Funding to the Army's Future Vertical Lift, Tactical Combat Training System II programs, and the Air Force's Tactical High Power Microwave Operational responder program. • Future Vertical Lift: FLRAA (Army): Future Long Range Assault Aircraft (FLRAA) is the Capability Set 3 of the Future Vertical Lift (FVL) Family of Systems (FoS). FLRAA will provide the Army and Joint Force with an advanced vertical lift aircraft with advanced technologies to support Multi-Domain Operations from 2030 and beyond. The work done in this follow-on study will expand previous work on: design, development, and implementation of technology protection features that enable export, and/or (2)			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense		Date: March 2024
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*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
modify or remove technologies and/or capabilities prohibited for export early in the acquisition life cycle, when possible. The study will inform and leverage, when available, a program protection, security classification guide, and critical program information (CPI) analysis, amongst other information sources. • Tactical Combat Training System II (Navy): The follow-on study will focus on completing the P5CTS Interoperable WF Integration. The P5CTS Interoperable WF is a critical enabler for partner nations currently operating P5CTS systems. • Tactical High Power Microwave Operational Responder THOR/MJOLNIR (Air Force): The study team will develop a detailed design of the Mjölnir-E system incorporating the exportability features identified during Phase 1A. The specific EFs to be incorporated into the detailed design will be determined during the completion of the Phase 1A Study addressing 1) protection of critical technology, 2) added modularity, adaptability and international standardization, and 3) marketability in an international setting. ***FY 2025 Plans:*** Provide funding to help DoD programs plan for exportability in line with recent changes to DoD guidance, including the DoD instruction (DoDI) 5000.85 Major Capability Acquisition that requires DoD programs to design their systems for exportability as the default acquisition approach and the updated Join Capabilities Integration and Development System manual that integrates exportability into the DoD requirements planning process. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** FY 2025 decrease is driven by a reorientation of Departmental priorities, while continuing to expand exportability efforts.			
Accomplishments/Planned Programs Subtotals	30.142	18.981	15.779

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Office of the Secretary Of Defense		Date: March 2024
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*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
DEF	TBD	Various : Various	97.603	30.142		18.981		15.779		-		15.779	-	-	-
		Subtotal	97.603	30.142		18.981		15.779		-		15.779	-	-	N/A

Remarks

N/A.

	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	97.603	30.142		18.981		15.779		-		15.779	-	-	N/A

Remarks

N/A

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Office of the Secretary Of Defense		Date: March 2024
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*

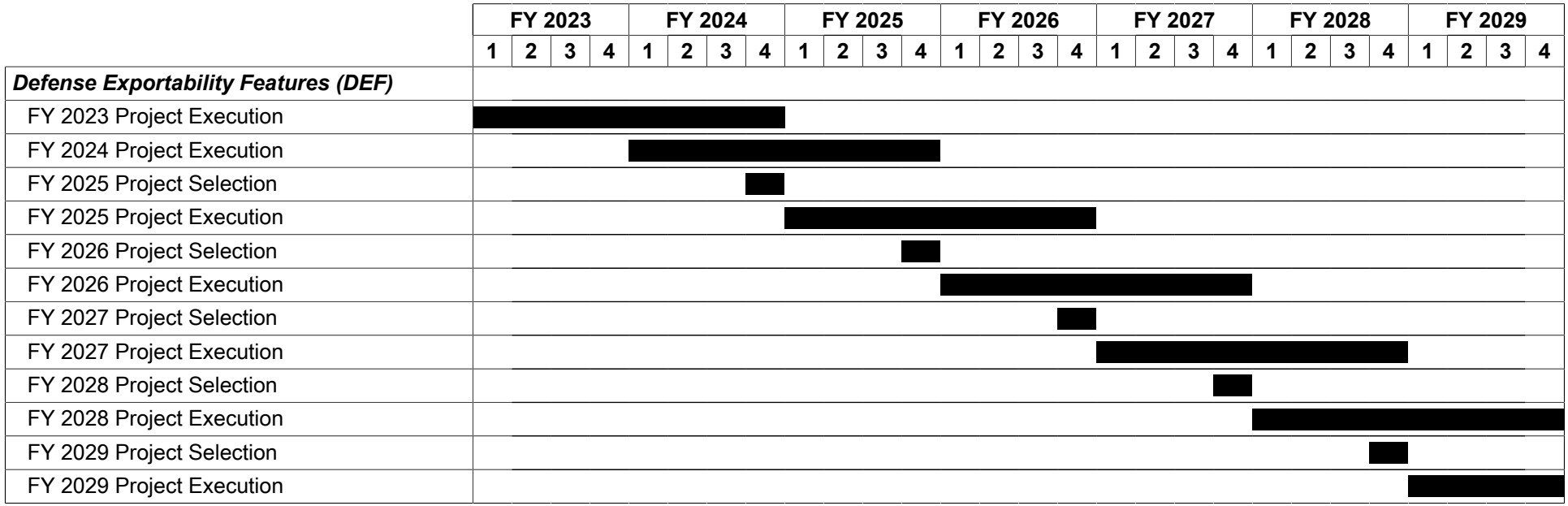

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Office of the Secretary Of Defense		Date: March 2024
Appropriation/Budget Activity 0400 / 5	**R-1 Program Element (Number/Name)** PE 0605022D8Z / *Defense Exportability Features (DEF) Program*	**Project (Number/Name)** 013 / *Defense Exportability Features (DEF) Program*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Defense Exportability Features (DEF)				
FY 2023 Project Execution	1	2023	4	2024
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	2027
FY 2027 Project Selection	4	2026	4	2026
FY 2027 Project Execution	1	2027	4	2028
FY 2028 Project Selection	4	2027	4	2027
FY 2028 Project Execution	1	2028	4	2029
FY 2029 Project Selection	4	2028	4	2028
FY 2029 Project Execution	1	2029	4	2029