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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Army											Date: March 2023	
Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)</i>					R-1 Program Element (Number/Name) PE 0605049A / <i>Missile Warning System Modernization (MWSM)</i>							
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	27.571	0.000	27.571	0.000	0.000	0.000	0.000	0.000	27.571
XT4: <i>Advanced Threat Detection System (ATDS)</i>	-	-	-	27.571	-	27.571	-	-	-	-	0.000	27.571

Note

Advanced Threat Detection System (ATDS) is a new start within the Missile Warning System Modernization program in FY 2024.

A. Mission Description and Budget Item Justification

The Missile Warning System Modernization (MWSM) budget line includes funding to support the development and integration of improved Aircraft Survivability Equipment (ASE) products onto current US Army Aviation platforms as well as Future Vertical Lift (FVL) Future Attack Reconnaissance Aircraft (FARA) and Future Long Range Assault Aircraft (FLRAA) and future platforms.

On 14 March 2022 a Material Development Decision (MDD) request for the Improved Threat Detection System (ITDS) was issued by the Deputy Chief of Staff of the Army (DCS), G-8. ITDS is a new start in FY2024, and will provide the capability to detect, classify, cue, and declare on existing and emerging Electro-Optical/Infra-red (EO/IR) guided Man Portable Air Defense Systems (MANPADS), Rocket Propelled Grenades (RPG)/unguided rockets, Anti-Tank Guided Missiles (ATGM), Ballistic, and Lasers. ITDS will provide a cue, based on the threat classification, to the appropriate countermeasure system (Directable Infrared Countermeasure and/or expendable countermeasure). ITDS will improve the expendable countermeasure system.

Justification:

FY2024 BASE RDTE dollars in the amount of \$27.571 million will fund pathway initiation and oversee a robust development effort including program management, technical oversight for an ITDS milestone decision, and execution of contract(s) to initiate Product Development.

Funding was placed on the ATDS funding line because none currently exists for ITDS. A new funding line is expected to be created for ITDS.

References:

- Rescission of Advanced Threat Detection System Request for Materiel Development Decision, DCS, G-8, 17 December 2018.
- MDD Request for the ITDS Program of Record, Aviation Capability Development and Integration Directorate (Aviation CDID), 6 July 2021.
- MDD Request for the ITDS Program of Record, DCS, G-8, 14 March 2022.
- Assignment of an Army Office of Primary Responsibility (OPR) for the ITDS Capability, Assistant Secretary of the Army (Acquisition, Logistics and Technology) (ASA(ALT)), 18 April 2022.

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B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	27.571	-	27.571
Total Adjustments	0.000	0.000	27.571	-	27.571
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	27.571	-	27.571

Change Summary Explanation

Addition of FY2024 funds for initiation of the ITDS program.

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Army										Date: March 2023		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605049A / <i>Missile Warning System Modernization (MWSM)</i>				Project (Number/Name) XT4 / <i>Advanced Threat Detection System (ATDS)</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
XT4: <i>Advanced Threat Detection System (ATDS)</i>	-	-	-	27.571	-	27.571	-	-	-	-	0.000	27.571
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

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A. Mission Description and Budget Item Justification

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Justification:

FY2024 BASE RDTE dollars in the amount of \$27.571 million will fund pathway initiation and oversee a robust development effort including program management, technical oversight for an ITDS milestone decision, and execution of contract(s) to initiate Product Development.

Funding was placed on the ATDS funding line because none currently exists for ITDS. A new funding line is expected to be created for ITDS.

References:

- Rescission of Advanced Threat Detection System Request for Materiel Development Decision, DCS, G-8, 17 December 2018.
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Title: ITDS Product Development and Management Services	-	-	27.571

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
<p><i>FY 2024 Plans:</i> FY2024 BASE RDTE dollars in the amount of \$27.571 million will fund program management and technical oversight for an ITDS milestone decision and execution of contract/s to initiate Product Development.</p> <p><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> Addition of FY2024 funds for initiation of the ITDS program. Advanced Threat Detection System (ATDS) is a new start within the Missile Warning System Modernization program in FY 2024.</p>				
Accomplishments/Planned Programs Subtotals		-	-	27.571
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
<p>Subsequent to Aviation CDID issuance of the MDD Request for the ITDS Program of Record, the Program Manager, Aircraft Survivability Equipment (PM ASE) submitted initial requirements for the FY2024-2028 Program Objective Memorandum (POM) period. PM ASE is currently following the ASA(ALT) directed Acquisition Shaping Panel (ASP) process in preparation for the ITDS MDD. The results of the ASP and MDD will direct the formal acquisition and contracting strategies for ITDS. The Aviation Enablers-Requirements Determination Division at the US Army Aviation Center of Excellence is developing a draft of the ITDS Capabilities Development Document (CDD) to support future milestone decisions.</p>				

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605049A / <i>Missile Warning System M odernization (MWSM)</i>	Project (Number/Name) XT4 / <i>Advanced Threat Detection System (ATDS)</i>

Event Name	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
	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
ITDS MDD									1 ITDS MDD																			
ITDS Development Engineering																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605049A / <i>Missile Warning System M odernization (MWSM)</i>	Project (Number/Name) XT4 / <i>Advanced Threat Detection System (ATDS)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
PEO Acquisition Decision Memorandum (ADM)	1	2019	1	2019
Enhanced Market Research	2	2019	2	2020
Enhanced Market Research Report	2	2020	2	2020
ITDS MDD	1	2024	1	2024
ITDS Development Engineering	2	2024	4	2028