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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Army **Date:** February 2020

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0605049A / Missile Warning System Modernization (MWSM)
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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	-	7.321	1.539	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	8.860
XT4: Advanced Threat Detection System (ATDS)	-	7.321	1.539	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	8.860

A. Mission Description and Budget Item Justification

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

ATDS will provide enhanced missile warning capabilities for current and future Army rotary-wing, small fixed wing, tilt-rotor platforms, and Special Operations rotary wing aircraft. Primary capability achieved through ATDS is the agility necessary to rapidly react to evolving threats.

B. Program Change Summary (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	8.266	1.539	1.551	-	1.551
Current President's Budget	7.321	1.539	0.000	-	0.000
Total Adjustments	-0.945	0.000	-1.551	-	-1.551
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.945	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-1.551	-	-1.551

Change Summary Explanation

FY 2021 funding was decreased in response to rescission of the Materiel Development Decision (MDD) Request Memo on December 17, 2018. Prior to the rescission, the Army Acquisition Executive (AAE) was briefed October 22, 2018. Determination was the Army has shifted focus to Future Vertical Lift (FVL) in the Aviation arena. ATDS capability no longer aligns with the current focus and will not be pursued at this time. Remaining prior year funding supports enhanced market research and future missile warning system studies to assess existing and/or proposed technologies available for future development.

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army										Date: February 2020		
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 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
XT4: <i>Advanced Threat Detection System (ATDS)</i>	-	7.321	1.539	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	8.860
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Advanced Threat Detection System (ATDS) capability no longer aligns with the current Army focus and will not be pursued at this time; therefore there are no funding requirements for Fiscal Year (FY) 2021.

A. Mission Description and Budget Item Justification

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

ATDS will provide enhanced missile warning capabilities for current and future Army rotary-wing, small fixed wing, tilt-rotor platforms, and Special Operations rotary wing aircraft. Primary capability achieved through ATDS is the agility necessary to rapidly react to evolving threats.

Justification: FY 2021 was reduced to \$0 in response to the December 17, 2018 Material Development Decision (MDD) Request Memo rescission.

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

	FY 2019	FY 2020	FY 2021
Title: FY19 Rescission	6.776	-	-
Title: ATDS Description: Enhanced market research for Future Vertical Lift (FVL).	0.545	1.469	-
FY 2020 Plans: FY 2020 Base Research Development Technology & Evaluation (RDT&E) funding in the amount of \$1.539 million funded enhanced market research activities to assess existing and/or proposed technologies available for future development.			
FY 2020 to FY 2021 Increase/Decrease Statement: ATDS capability no longer aligns with the current Army focus and will not be pursued at this time; therefore there are no funding requirements for FY 2021.			
Title: FY 2020 SBIR/STTR Transfer Description: Funding transferred in accordance with Title 15 USC ?638	-	0.070	-

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021
<i>FY 2020 Plans:</i> Funding transferred in accordance with Title 15 USC ?638			
<i>FY 2020 to FY 2021 Increase/Decrease Statement:</i> Funding transferred in accordance with Title 15 USC ?638			
Accomplishments/Planned Programs Subtotals	7.321	1.539	-

C. Other Program Funding Summary (\$ in Millions)
N/A

Remarks

D. Acquisition Strategy
ATDS Materiel Development Decision (MDD) Request Memo was rescinded on December 17, 2018. Prior to the rescission, the Army Acquisition Executive (AAE) was briefed October 22, 2018. Determination was the Army has shifted focus to FVL in the Aviation arena. ATDS capability no longer aligns with the current focus and will not be pursued at this time. Remaining prior year funding supports enhanced market research and future missile warning system studies to assess existing and/or proposed technologies available for future development.

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Army		Date: February 2020
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>

Event Name	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	
PEO Acquisition Decision Memorandum (ADM)	▲ 1																												
Enhanced Market Research		■																											
Enhanced Market Research Report							▲ 2																						

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Army		Date: February 2020
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>

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