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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Army	Date: May 2017
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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)							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	55.810	-	55.810	31.823	131.827	99.826	0.000	Continuing	Continuing
XT4: Advanced Threat Detection System (ATDS)	-	0.000	0.000	55.810	-	55.810	31.823	131.827	99.826	0.000	Continuing	Continuing

A. Mission Description and Budget Item Justification

Advanced Threat Detection Systems (ATDS) is anticipated to be an ACAT IC program. It is the next generation fleet-wide threat detection component to the Aircraft Survivability Equipment suite. ATDS will replace the Common Missile Warning System (CMWS). Primary capability achieved through ATDS is the agility necessary to more quickly react to new threats.

B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	55.810	-	55.810
Total Adjustments	0.000	0.000	55.810	-	55.810
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments 1	0.000	0.000	55.810	-	55.810

Change Summary Explanation

Funding was transferred from Program Element 0605051A project ER8 (Common Missile Warning System (CMWS)) to Program Element 0605049A project XT4 for FY18 and beyond for more efficient and effective program management.

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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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
XT4: <i>Advanced Threat Detection System (ATDS)</i>	-	0.000	0.000	55.810	-	55.810	31.823	131.827	99.826	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note
Funding was transferred from Program Element 0605051A project ER8 (Common Missile Warning System (CMWS)) to Program Element 0605049A project XT4 for FY18 and beyond for more efficient and effective program management.

A. Mission Description and Budget Item Justification
Advanced Threat Detection Systems (ATDS) is anticipated to be an ACAT IC program. It is the next generation fleet-wide threat detection component to the Aircraft Survivability Equipment suite. ATDS will replace the Common Missile Warning System (CMWS). Primary capability achieved through ATDS is the agility necessary to more quickly react to new threats.

Justification:
FY 2018 Base Research Development Test and Evaluation (RDTE) dollars in the amount of \$55.810 million fund development to include resources to support systems test and evaluation (ST&E) and program planning for an advanced missile warning system.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2016	FY 2017	FY 2018
Title: ATDS	-	-	55.810
Description: Develop, test, integrate, and field an advanced missile warning system.			
FY 2018 Plans: FY 2018 Base RDTE dollars in the amount of \$55.810 million will fund development to include resources to support systems test and evaluation (ST&E) and program planning for an advanced missile warning system.			
Accomplishments/Planned Programs Subtotals	-	-	55.810

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

Remarks

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D. Acquisition Strategy ATDS Program of Record (PoR) will pursue a tailored acquisition approach to expedite capability to the field. Current strategy assumes that mature technology exists and will enable entry at Milestone B. First Unit Equipped (FUE) is projected for FY2025. Milestone Development Decision (MDD) is tentatively scheduled for 3QFY2017.		
E. Performance Metrics N/A		





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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Army												Date: May 2017			
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Management Services (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ATDS Systems Engineering Program Management	TBD	PM ASE : HSV, AL	0.000	-		-		1.550	Jan 2018	-		1.550	0.000	1.550	Continuing
Subtotal			0.000	-		-		1.550		-		1.550	0.000	1.550	-
Product Development (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ATDS ST&E Development	TBD	PM ASE : HSV, AL	0.000	-		-		14.774	Mar 2018	-		14.774	0.000	14.774	Continuing
ATDS Software for ST&E	TBD	PM ASE : HSV, AL	0.000	-		-		7.930	Mar 2018	-		7.930	0.000	7.930	Continuing
Subtotal			0.000	-		-		22.704		-		22.704	0.000	22.704	-
Support (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ATDS Matrix Support	TBD	PM ASE : HSV, AL	0.000	-		-		3.840	Jan 2018	-		3.840	0.000	3.840	Continuing
Subtotal			0.000	-		-		3.840		-		3.840	0.000	3.840	-
Test and Evaluation (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ATDS Government System Test and Evaluation	TBD	PM ASE : HSV, AL	0.000	-		-		19.930	Mar 2018	-		19.930	0.000	19.930	Continuing
ATDS Threat Asset Acquisition	TBD	PM ASE : HSV, AL	0.000	-		-		2.930	Mar 2018	-		2.930	0.000	2.930	Continuing
ATDS Lab Support	TBD	PM ASE : HSV, AL	0.000	-		-		2.926	Mar 2018	-		2.926	0.000	2.926	Continuing
ATDS SIL Development	TBD	PM ASE : HSV, AL	0.000	-		-		1.930	Mar 2018	-		1.930	0.000	1.930	Continuing

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Test and Evaluation (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.000	-		-		27.716		-		27.716	0.000	27.716	-
			Prior Years	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	-		0.000		55.810		-		55.810	0.000	55.810	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 Army																Date: May 2017																
Appropriation/Budget Activity										R-1 Program Element (Number/Name)										Project (Number/Name)												
2040 / 5										PE 0605049A / Missile Warning System Modernization (MWSM)										XT4 / Advanced Threat Detection System (ATDS)												
Event Name	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022							
	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				
EMD Phase																																

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Exhibit R-4A, RDT&E Schedule Details: FY 2018 Army			Date: May 2017
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
EMD Phase	3	2020	2	2023
MDD	3	2017	3	2017
Milestone B	3	2020	3	2020
CDR	4	2021	4	2021
Prototype Deliveries	2	2022	2	2022