**Exhibit R-2**, **RDT&E Budget Item Justification**: PB 2019 Army

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

2040: Research, Development, Test & Evaluation, Army I BA 7: Operational

PE 0203802A I Other Missile Product Improvement Programs

Systems Development

COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost			
Total Program Element	-	8.283	5.000	4.947	-	4.947	4.943	4.942	4.941	4.940	0.000	37.996			
788: ATACMS PIP	-	0.000	5.000	4.947	-	4.947	4.943	4.942	4.941	4.940	0.000	29.713			
DZ9: ATACMS Mods	-	7.203	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	7.203			
VT9: Lethal Miniature Aerial Missle System (LMAMS)	-	1.080	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	1.080			

Program MDAP/MAIS Code: PRE

#### A. Mission Description and Budget Item Justification

Army Tactical Missile System (ATACMS) is the United States (U.S.) Army's primary all-weather, surface-to-surface long-range artillery precision guided missile used by Combatant Commanders to shape the battlefield with long-range fires against hard & soft targets in open, complex, and urban environments.

788: ATACMS Product Improvement Program (PIP) focuses on safety, cost reduction, reliability, deficiency corrections, standardization, and new or improved operational capabilities. FY19 Base funds in the amount of \$4.947 million supports completion of operational testing, corrections of identified deficiencies, and fielding support activities for a Height-of-Burst capability via proximity sensor, GPS M-Code Study & Prototyping, Insensitive Munitions Study and other evolving capabilities. Additional supporting efforts include launcher software and training updates to enable firing for new ATACMS configuration.

DZ9: Block (BLK) I/IA ATACMS currently have warheads that are non-compliant with the 2008 Department of Defense (DoD) policy on cluster munitions (CM). Starting with a BLK I/IA missile, this modification effort will integrate, test, and qualify an ATACMS configuration to include a policy compliant warhead, obsolescence refresh, and re-grained rocket motors. Performance of a characterization effort will include qualification and flight testing to assess ATACMS performance with inclusion of a proximity sensor. Additional efforts include launcher updates to enable firing of the new ATACMS configuration. There is no funding in FY19.

VT9: Lethal Miniature Aerial Missile System (LMAMS) develops, integrates, and tests the Switchblade Multi-Pack Launcher (MPL). Multi-Pack Launcher provides the capability to launch up to 6 Switchblade missiles remotely in a Force Protection Environment. The mission for the MPL is to be placed in a Forward Operating Base (FOB) in a constant ready-to-use state to enable Soldiers to remain in the safety of a building while launching Switchblade missiles. There is no funding in FY19.

Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Army

Date: February 2018

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

2040: Research, Development, Test & Evaluation, Army I BA 7: Operational Systems Development

PE 0203802A I Other Missile Product Improvement Programs

FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
8.571	5.000	15.000	-	15.000
8.283	5.000	4.947	-	4.947
-0.288	0.000	-10.053	-	-10.053
-	-			
-	-			
-	-			
-	-			
-	-			
-	-			
-0.284	-			
-	-	-10.053	-	-10.053
-0.004	-	-	-	-
	8.283 -0.288 - - - - - - - - - - - - - -	8.571 5.000 8.283 5.000 -0.288 0.000 	8.571 5.000 15.000 8.283 5.000 4.947 -0.288 0.000 -10.053 	8.571 5.000 15.000 - 8.283 5.000 4.9470.288 0.000 -10.053

### **Change Summary Explanation**

FY 2017 funding change is due to SBIR/STTR and the Federally Funded Research and Development Center (FFRDC) reduction for ATACMS Mods (Project #: DZ9).

FY 2019 funding change is due to realignment of funds from ATACMS PIP (PE 0203802A, Project #: 788) to ATACMS BLK II (PE 0604768A, Project #: 688) and Multi-Mode Seeker Development and Test (PE 0604768A, Project #: P01) and revised economic assumptions.

Exhibit R-2A, RDT&E Project Ju	Date: Febr	ruary 2018										
Appropriation/Budget Activity 2040 / 7						am Elemen 02A / Other ent Program	Missile Prod	,	Project (Number/Name) 788 / ATACMS PIP			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
788: ATACMS PIP	-	0.000	5.000	4.947	-	4.947	4.943	4.942	4.941	4.940	0.000	29.713
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

### A. Mission Description and Budget Item Justification

ATACMS Product Improvement Program (PIP) focuses on safety, cost reduction, reliability, deficiency corrections, standardization, and new or improved operational capabilities. FY19 Base funds in the amount of \$4.947 million supports completion of operational testing, corrections of identified deficiencies, and fielding support activities for a Height-of-Burst capability via proximity sensor, GPS M-Code Study & Prototyping, Insensitive Munitions Study and other evolving capabilities.

B. Accomplishments/Planned Programs (\$ in Millions)			FY 2019	FY 2019	FY 2019
	FY 2017	FY 2018	Base	oco	Total
Title: Product Improvement Program (PIP) Activities	-	5.000	4.947	-	4.947
<b>Description:</b> PIP focuses on safety, cost reduction, reliability, deficiency corrections, standardization, and new or improved operational capabilities for ATACMS.					
FY 2018 Plans: Developed Test & Evaluation Master Plan (TEMP) for Height-of-Burst capability, conducted Operational Test (OT) assuming existing ATACMS test quantities were sufficient, and initiated activities for production cut-in and fielding.					
FY 2019 Base Plans: Complete Height-of-Burst capability testing and activities for production cut-in and fielding, GPS M-code study and prototyping, Insensitive Munitions study, Cost Reduction study, and flight test support/equipment.					
FY 2018 to FY 2019 Increase/Decrease Statement: FY18-19 funding decrease due to revised economic assumptions.					
Accomplishments/Planned Programs Subtotals	_	5.000	4.947	-	4.947

# C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

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xhibit R-2A, RDT&E Project Justification: PB 2019 A	urmy	Date: February 2018
Appropriation/Budget Activity 040 / 7	R-1 Program Element (Number/Name) PE 0203802A I Other Missile Product Improvement Programs	Project (Number/Name) 788 / ATACMS PIP
	r the height-of-burst capability, a proximity sensor will be inserted in dilities, will be inserted into future production once those technologies	
E. Performance Metrics N/A		

PE 0203802A: Other Missile Product Improvement Progra... Army

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

PE 0203802A / Other Missile Product

788 I ATACMS PIP

Project (Number/Name)

Date: February 2018

Improvement Programs

Management Services (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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
Government Program Management	MIPR	AMRDEC : RSA	-	-		0.300		0.250	Nov 2019	-		0.250	Continuing	Continuing	Continuing
		Subtotal	-	-		0.300		0.250		-		0.250	Continuing	Continuing	N/A

#### Remarks

2040 / 7

AMRDEC - U.S Army Research, Development and Engineering Command; RSA - Redstone Arsenal, Alabama

Product Development (\$ in Millions)		FY :	2017	FY 2	2018		2019 ise	FY 2		FY 2019 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
Studies	Various	Various : Various	-	-		-		1.483	Nov 2018	-		1.483	0.000	1.483	-
Prototyping	C/CPFF	LMMFC : Dallas, TX	-	-		-		1.881	Mar 2019	-		1.881	0.000	1.881	-
		Subtotal	-	-		-		3.364		-		3.364	0.000	3.364	N/A

#### Remarks

LMMFC - Lockheed Martin Missiles and Fire Control

Test and Evaluation (\$ in Millions)			FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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	Total Cost	Target Value of Contract
Test Support	Various	Various : Various	-	-		4.700		1.333	Nov 2019	-		1.333	Continuing	Continuing	Continuing
		Subtotal	-	-		4.700		1.333		-		1.333	Continuing	Continuing	N/A
															Target

FY 2018

#### 5.000 4.947 4.947 Continuing Continuing **Project Cost Totals** Remarks

FY 2017

PE 0203802A: Other Missile Product Improvement Progra... Army

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R-1 Line #207

FY 2019

oco

FY 2019

Total

Cost To

Complete

Total

Cost

Value of

Contract

N/A

FY 2019

Base

Prior

Years

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Army

Date: February 2018

Appropriation/Budget Activity

2040 / 7

R-1 Program Element (Number/Name)
PE 0203802A I Other Missile Product
Improvement Programs

**Project (Number/Name)** 788 / ATACMS PIP

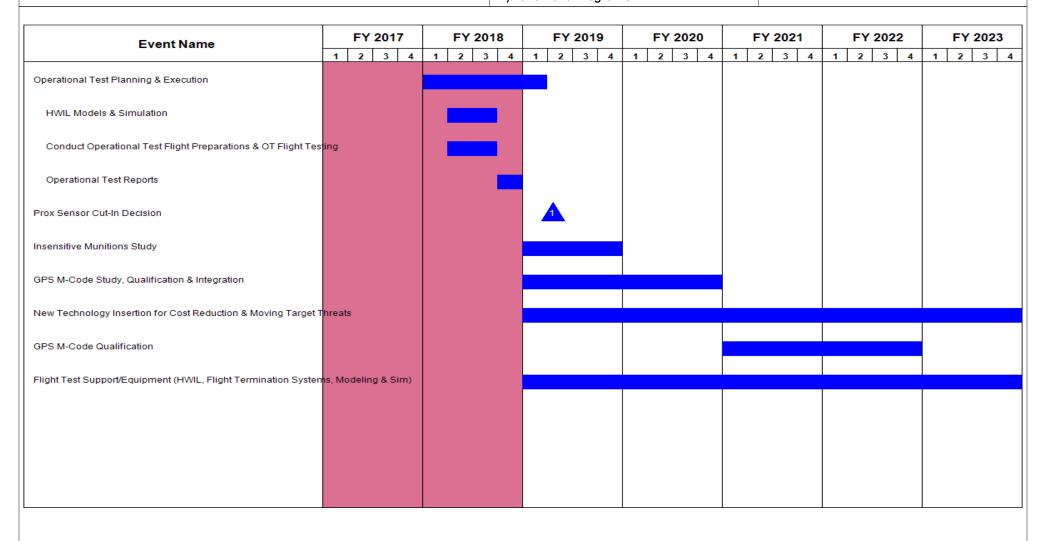


Exhibit R-4A, RDT&E Schedule Details: PB 2019 Army			Date: February 2018
2040 / 7	` ` ` `	Project (N 788 / ATAC	umber/Name) CMS PIP

# Schedule Details

	St	art	E	nd
Events	Quarter	Year	Quarter	Year
Operational Test Planning & Execution	1	2018	1	2019
HWIL Models & Simulation	2	2018	3	2018
Conduct Operational Test Flight Preparations & OT Flight Testing	2	2018	3	2018
Operational Test Reports	4	2018	4	2018
Prox Sensor Cut-In Decision	2	2019	2	2019
Insensitive Munitions Study	1	2019	4	2019
GPS M-Code Study, Qualification & Integration	1	2019	4	2020
New Technology Insertion for Cost Reduction & Moving Target Threats	1	2019	4	2023
GPS M-Code Qualification	1	2021	4	2022
Flight Test Support/Equipment (HWIL, Flight Termination Systems, Modeling & Sim)	1	2019	4	2023

Exhibit R-2A, RDT&E Project Ju	Date: Febr	uary 2018										
Appropriation/Budget Activity 2040 / 7					PE 020380	am Elemen 02A / Other ent Program	Missile Prod	•	Project (Number/Name) DZ9 / ATACMS Mods			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
DZ9: ATACMS Mods	-	7.203	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	7.203
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

#### A. Mission Description and Budget Item Justification

Army Tactical Missile System (ATACMS) is the United States (U.S.) Army's primary 24/7, all-weather, and surface-to-surface artillery precision missile used by current and future Combatant Commanders to shape the battlefield with long-range fires against hard and soft stationary targets in open, complex, and urban environments. Block (BLK) I/IA ATACMS currently have warheads that are non-compliant with the 2008 Department of Defense (DoD) policy on cluster munitions (CM). Starting with a BLK I/IA missile, this modification effort will integrate, test, and qualify an ATACMS configuration to include a policy compliant warhead, obsolescence refresh, and regrained rocket motors. Performance of a characterization effort will include qualification and flight testing to assess ATACMS performance with inclusion of a proximity sensor. Additional efforts include launcher updates to enable firing of the new ATACMS configuration.

There is no FY19 funding.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Conduct Development Engineering, Design Component Testing, and Performance Analysis.	7.203	-	-	-	-
<b>Description:</b> Develop and qualify obsolescence updates, build-up of flight test missiles, perform component and system flight testing, and characterize proximity sensor performance.					
Accomplishments/Planned Programs Subtotals	7.203	-	-	-	-

## C. Other Program Funding Summary (\$ in Millions)

			FY 2019	FY 2019	FY 2019					Cost To	
<u>Line Item</u>	FY 2017	FY 2018	<b>Base</b>	OCO	<u>Total</u>	FY 2020	FY 2021	FY 2022	FY 2023	<b>Complete</b>	<b>Total Cost</b>
<ul> <li>CA6700: ATACMS MODS</li> </ul>	165.943	186.040	221.656	225.580	447.236	259.011	332.791	374.310	374.270	0.000	2,139.601

#### Remarks

### D. Acquisition Strategy

The ATACMS MOD program will qualify a new configuration needed to support follow-on production in order to maintain critical inventory levels. Lockheed Martin Missile and Fire Control (LMMFC) will integrate and test ATACMS MOD under a Cost Plus Fixed Fee (CPFF) contract.

#### **E. Performance Metrics**

N/A

Army

PE 0203802A: Other Missile Product Improvement Progra...

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R-1 Line #207

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army

Date: February 2018

| umber/Name | Project (Number/Name)

Appropriation/Budget Activity

2040 / 7

R-1 Program Element (Number/Name)
PE 0203802A / Other Missile Product

DZ9 / ATACMS Mods

Improvement Programs

Management Service	es (\$ in M	illions)		FY 2	2017	FY 2	2018	FY 2 Ba		FY 2		FY 2019 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	Total Cost	Target Value of Contract
Government Program Management	MIPR	PFRMS Project Office : RSA	12.527	1.243		-		-		-		-	0.000	13.770	-
		Subtotal	12.527	1.243		-		-		-		-	0.000	13.770	N/A

#### Remarks

PFRMS-Precision Fires Rocket and Missile Systems; RSA-Redstone Arsenal; MIPR-Military Interdepartmental Purchase Request

Product Developme	nt (\$ in M	illions)		FY 2	2017	FY 2	2018	1	2019 ase	FY 2	2019 CO	FY 2019 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	Total Cost	Target Value of Contract
ATACMS Mods Contracts	SS/CPFF	LMMFCS : (Dallas, TX)	108.667	3.866		-		-		-		-	0.000	112.533	-
Other Government Agencies	MIPR	AMCOM/AMRDEC : RSA	7.436	0.093		-		-		-		-	0.000	7.529	-
	·	Subtotal	116.103	3.959		-		-		-		-	0.000	120.062	N/A

#### Remarks

Army

ATACMS-Army Tactical Missile System; Mods-Modifications; CPFF-Cost Plus Fixed Fee; LMMFCS-Lockheed Martin Missile and Fire Control; TX-Texas; MIPR-Military Interdepartmental Purchase Request; AMCOM-Army Materiel Command; AMRDEC-U.S. Army Research, Development and Engineering Command; RSA-Redstone Arsenal, Alabama

Support (\$ in Millions	s)			FY 2	2017	FY 2	2018		2019 ase		2019 CO	FY 2019 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
Support Contract	C/CPFF	Various : Various	2.984	0.549		-		-		-		-	0.000	3.533	-
		Subtotal	2.984	0.549		-		-		-		-	0.000	3.533	N/A

PE 0203802A: Other Missile Product Improvement Progra...

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R-1 Line #207

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army

R-1 Program Element (Number/Name)

Project (Number/Name)

Date: February 2018

Appropriation/Budget Activity 2040 / 7

PE 0203802A / Other Missile Product

DZ9 / ATACMS Mods

Improvement Programs

Test and Evaluation	(\$ in Milli	ons)		FY 2	2017	FY 2	2018	FY 2 Ba		FY 2	2019 CO	FY 2019 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
Test Support	MIPR	WSMR, NM : RTC, AL	12.885	1.452		-		-		-		-	0.000	14.337	-
		Subtotal	12.885	1.452		-		-		-		-	0.000	14.337	N/A

#### Remarks

WSMR, NM-White Sands Missile Range, New Mexico; RTC, AL-Redstone Test Center, Alabama; MIPR-Military Interdepartmental Purchase Request

	Prior Years	FY 2	2017	FY 2	2018	FY 2 Ba	FY 2	2019 CO	FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	144.499	7.203		0.000		-	-		-	0.000	151.702	N/A

#### Remarks

PE 0203802A: Other Missile Product Improvement Progra... Army

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R-1 Line #207

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Army

Date: February 2018

Appropriation/Budget Activity
2040 / 7

R-1 Program Element (Number/Name)
PE 0203802A / Other Missile Product

Improvement Programs

Project (Number/Name)
DZ9 / ATACMS Mods

I										- 1								- 1								
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	
	l l	<b>I</b>	FY 2017  1 2 3 4		I I	I I	1	1							FY 2017 FY 2018 FY 2019 FY 2020  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 1 1 2 3 4 1 1 2 3 4 1 1 2 3 1 4 1 1 2 1 3 1 4 1 1 1 2 1 3 1 4 1 1 1 1 2 1 3 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Army			Date: February 2018
2040 / 7	,	, ,	umber/Name) CMS Mods

# Schedule Details

	Si	tart	E	nd
Events	Quarter	Year	Quarter	Year
Development Engineering	3	2014	4	2017
Conduct Arena Warhead Tests	4	2014	2	2015
Procure Flight Termination Systems	3	2014	2	2016
Proximity Sensor Characterization	4	2014	4	2017
Obsolescence	3	2014	4	2016
Component Build Up and Performance Analysis	1	2015	3	2017
Sub Component Hardware Build Up	1	2015	3	2016
Missiles Integration, Assembly, and Deliveries	3	2016	1	2017
Ground/Flight Tests	3	2016	3	2017

Exhibit R-2A, RDT&E Project J	ustification	: PB 2019 <i>P</i>	Army							Date: Febi	ruary 2018	
Appropriation/Budget Activity 2040 / 7					PE 020380	<b>am Elemen</b> 02A / Other ent Program	Missile Pro	•	Project (N VT9 / Letha (LMAMS)		ne) Aerial Miss	le System
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
VT9: Lethal Miniature Aerial Missle System (LMAMS)	-	1.080	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	1.080
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

### A. Mission Description and Budget Item Justification

VT9: Lethal Miniature Aerial Missile System (LMAMS) develops, integrates, and tests the Switchblade Multi-Pack Launcher (MPL). Multi-Pack Launcher provides the capability to launch up to 6 Switchblade missiles remotely in a Force Protection Environment. The mission for the MPL is to be placed in a Forward Operating Base (FOB) in a constant ready-to-use state to enable Soldiers to remain in the safety of a building while launching Switchblade missiles.

B. Accomplishments/Planned Programs (\$ in Millions)			FY 2019	FY 2019	FY 2019
	FY 2017	FY 2018	Base	oco	Total
Title: Develop, Integrate and Test the LMAMS Multi-Pack Launcher	1.080	-	-	-	-
<b>Description:</b> Development, Integration, and Testing of the Multi-Pack Launcher (MPL). Multi-Pack Launcher provides the capability to launch up to 6 Switchblades remotely in a Force Protection Environment.					
Accomplishments/Planned Programs Subtotals	1.080	-	-	-	-

## C. Other Program Funding Summary (\$ in Millions)

			FY 2019	FY 2019	FY 2019					Cost 10	
Line Item	FY 2017	FY 2018	<b>Base</b>	OCO	<u>Total</u>	FY 2020	FY 2021	FY 2022	FY 2023	<b>Complete</b>	<b>Total Cost</b>
<ul> <li>C88001: LETHAL</li> </ul>	55.377	8.669	0.000	112.973	112.973	-	-	-	-	0.000	177.019
MINIATURE AERIAL											

MISSILE SYSTEM (LMAMS)

#### Remarks

## D. Acquisition Strategy

All contractor funds are planned to be awarded via sole source contract to Aerovironment. Remaining funding is planned for CCWS Program Management costs, test facility costs, range costs, and test support personnel.

#### E. Performance Metrics

N/A

Army

PE 0203802A: Other Missile Product Improvement Progra...

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army Appropriation/Budget Activity 2040 / 7						PE 0203802A / Other Missile Product VT9 /					VT9 / L	Date: February 2018 ect (Number/Name) I Lethal Miniature Aerial Missle Systen			
						Improve	ement Pro	ograms			(LMAM	S)			
Management Services (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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	Total Cost	Target Value o Contrac
Project Management	Allot	Close Combat Weapon Systems Project Office : Redstone Arsenal, AL	-	0.046	May 2017	-		-		-		-	0.000	0.046	-
		Subtotal	-	0.046		-		-		-		-	0.000	0.046	N
Product Development (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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	Total Cost	Target Value o Contrac
Product Development	SS/CPFF	Aerovironment : Simi Valley, CA	-	0.449	Jun 2017	-		-		-		-	0.000	0.449	-
		Subtotal	-	0.449		-		-		-		-	0.000	0.449	N/
Test and Evaluation (\$ in Millions)			FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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 o Contrac
Test & Evaluation	MIPR	ATEC : Fort Huachuca, AZ	-	0.585	May 2017	-		-		-		-	0.000	0.585	-
		Subtotal	-	0.585		-		-		-		-	0.000	0.585	N/
		Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To	Total Cost	Target Value o Contrac	
Project Cost Totals -			1.080		0.000						_	0.000	1.080	N/	

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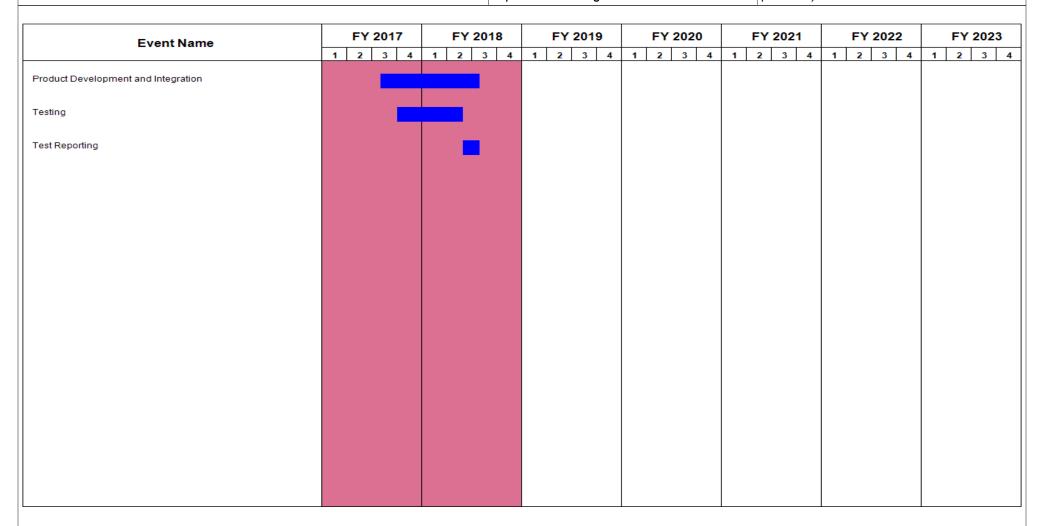


Exhibit R-4A, RDT&E Schedule Details: PB 2019 Army	Date: February 2018		
2040 / 7	1	(	umber/Name) al Miniature Aerial Missle System

# Schedule Details

	Sta	art	End		
Events	Quarter	Year	Quarter	Year	
Product Development and Integration	3	2017	3	2018	
Testing	4	2017	2	2018	
Test Reporting	2	2018	3	2018	