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 5: System

PE 0604768A I Brilliant Anti-Armor Submunition(BAT)

Development & Demonstration (SDD)

,												
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	-	0.000	10.000	9.894	-	9.894	9.886	109.884	160.416	358.713	0.000	658.793
688: ATACMS BLK II	-	0.000	5.000	4.947	-	4.947	4.943	4.942	4.941	4.940	0.000	29.713
P01: Multi-Mode Seeker Development and Test	-	0.000	5.000	4.947	-	4.947	4.943	104.942	155.475	353.773	0.000	629.080

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.

FY19 base dollars in the amount of \$9.894 million support ATACMS BLK II (Project #: 688) and the Multi-Mode Seeker (MMS) program (Project #: P01) which focus on development, integration & test of warheads and sensors to engage moving maritime & armored land-based targets. Strategic Capabilities Office (SCO) demonstrations through FY21 will inform technology maturity and transition plans to U.S. Army programs.

B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	0.000	10.000	0.000	-	0.000
Current President's Budget	0.000	10.000	9.894	-	9.894
Total Adjustments	0.000	0.000	9.894	-	9.894
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-	-			
 Adjustments to Budget Years 	-	-	9.894	-	9.894

Change Summary Explanation

FY 2019 funding change due to realignment of funds from ATACMS PIP (PE 0203802A, Project 788) to Brilliant Anti-Armor Submunition (BAT) (PE 0604768A).

PE 0604768A: Brilliant Anti-Armor Submunition(BAT)

Army

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Exhibit R-2A, RDT&E Project Ju	stification	: PB 2019 A	∖rmy							Date: Febi	ruary 2018	
Appropriation/Budget Activity 2040 / 5	PE 0604768A I Brilliant Anti-Armor Submunition(BAT) Project (Nu 688 I ATACM						,					
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
688: ATACMS BLK II	-	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 BLK II will integrate Strategic Capabilities Office (SCO) Breaker program demonstrated capabilities into ATACMS. This effort focuses on providing ATACMS with integrated sensor & warhead technologies to engage moving land-based armored targets.

FY19 Base funds in the amount of \$4.947 million supports system analysis & evaluation, requirements & specification development, and program transition activities.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2017	FY 2018	FY 2019
Title: Transition of SCO demonstrated capabilities to defeat armored targets	-	5.000	4.947
Description: Conduct warhead component requirements development, system integration analysis, and transition planning targeted at rapid qualification and fielding of the armor engagement capability.			
FY 2018 Plans: Began system analysis & evaluation, requirements & specification development, contract requirements package development, and program transition activities.			
FY 2019 Plans: Continue system analysis & evaluation, requirements & specification development, and program transition activities.			
FY 2018 to FY 2019 Increase/Decrease Statement: FY18-19 funding decrease due to reduction in effort needed to support transition of SCO demonstrated capabilities to defeat armored targets.			
Accomplishments/Planned Programs Subtotals	-	5.000	4.947

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

N/A

Remarks

N/A

Army

D. Acquisition Strategy

Accelerate the transition of Strategic Capabilities Office (SCO) Breaker program demonstrated capabilities into ATACMS.

PE 0604768A: Brilliant Anti-Armor Submunition(BAT)

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army	Date: February 2018	
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604768A I Brilliant Anti-Armor Submunition(BAT)	Project (Number/Name) 688 / ATACMS BLK II
E. Performance Metrics N/A		

PE 0604768A: *Brilliant Anti-Armor Submunition(BAT)* Army

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

R-1 Program Element (Number/Name)

Date: February 2018

Appropriation/Budget Activity 2040 / 5

PE 0604768A I Brilliant Anti-Armor

Project (Number/Name) 688 / ATACMS BLK II

Submunition(BAT)

Management Service	Management Services (\$ in Millions)			FY 2	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
Gov SEPM	MIPR	Various : RSA	-	-		1.000		0.947	Nov 2019	-		0.947	0.000	1.947	-
		Subtotal	-	-		1.000		0.947		-		0.947	0.000	1.947	N/A

Remarks

RSA - Redstone Arsenal, Alabama

Product Development (\$ in Millions)		FY 2	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
Warhead Development	C/CPFF	LMMFC : Dallas, TX	-	-		3.000		3.000	Jan 2019	-		3.000	0.000	6.000	-
System Analysis, Requirement & Spec Dev	MIPR	AMRDEC : RSA	-	-		1.000		1.000	Nov 2019	-		1.000	0.000	2.000	-
		Subtotal	-	-		4.000		4.000		-		4.000	0.000	8.000	N/A

Remarks

AMRDEC-U.S. Army Research, Development and Engineering Command; RSA-Redstone Arsenal, Alabama; LMMFC - Lockheed Martin Missiles and Fire Control

												Target
	Prior				FY 2	2019	FY 2	2019	FY 2019	Cost To	Total	Value of
	Years	FY 2017	FY 2	2018	Ва	se	00	co	Total	Complete	Cost	Contract
Project Cost Totals	-	-	5.000		4.947		-		4.947	0.000	9.947	N/A

Remarks

PE 0604768A: *Brilliant Anti-Armor Submunition(BAT)* Army

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

Appropriation/Budget Activity

2040 / 5

R-1 Program Element (Number/Name)
PE 0604768A / Brilliant Anti-Armor
Submunition(BAT)

Project (Number/Name)
688 / ATACMS BLK II

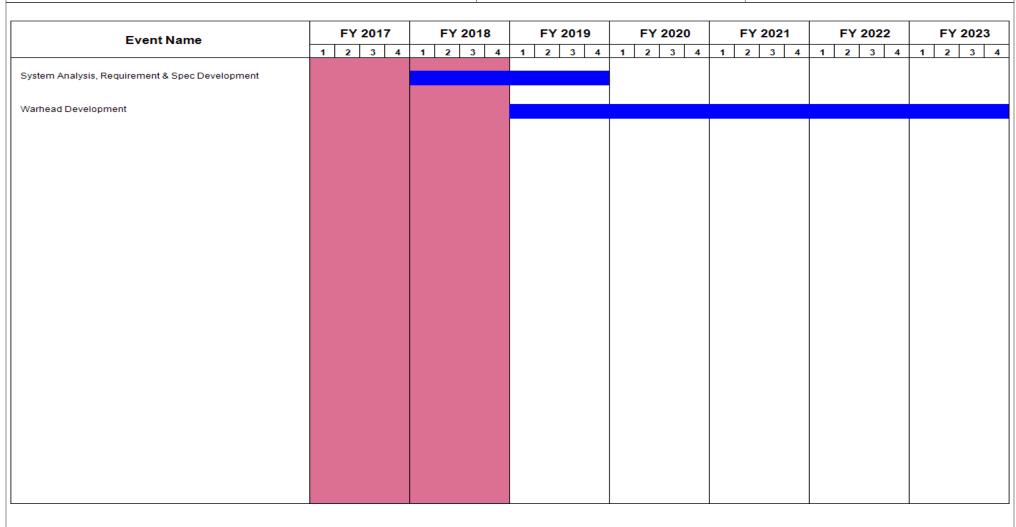


Exhibit R-4A, RDT&E Schedule Details: PB 2019 Army			Date: February 2018
	,	, ,	umber/Name) CMS BLK II

Schedule Details

	St	nd		
Events	Quarter	Year	Quarter	Year
System Analysis, Requirement & Spec Development	1	2018	4	2019
Warhead Development	1	2019	4	2023

Exhibit R-2A, RDT&E Project Ju	ustification	: PB 2019 A	Army							Date: Febr	uary 2018	
Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name) PE 0604768A I Brilliant Anti-Armor Submunition(BAT) Project (Number/Name) P01 I Multi-Mode Seeker Developm					ment and					
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
P01: Multi-Mode Seeker Development and Test	-	0.000	5.000	4.947	-	4.947	4.943	104.942	155.475	353.773	0.000	629.080
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	1	-		

A. Mission Description and Budget Item Justification

Multi-Mode Seeker will integrate Strategic Capabilities Office (SCO) STRIKE-X program demonstrated capabilities into ATACMS. This effort focuses on providing integration of a seeker to search, detect, acquire, and engage moving maritime/land-based targets.

FY19 Base funds in the amount of \$4.947 million supports system analysis & evaluation, requirements & specification development, Sensor development, System Integration, and program transition activities.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2017	FY 2018	FY 2019
Title: Transition of SCO demonstrated capabilities to defeat maritime targets	-	5.000	4.947
Description: Conduct seeker component requirements development, system integration analysis, and transition planning targeted at rapid qualification and fielding of the maritime engagement capability.			
FY 2018 Plans: Began system analysis & evaluation, requirements & specification development, contract requirements package development, and program transition activities.			
FY 2019 Plans: Continue system analysis & evaluation, requirements & specification development, Sensor Development, System Integration, and program transition activities.			
FY 2018 to FY 2019 Increase/Decrease Statement: FY18-19 funding decrease due to reduction in effort needed to transition SCO demonstrated capabilities to defeat maritime targets.			
Accomplishments/Planned Programs Subtotals	-	5.000	4.947

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

N/A

PE 0604768A: *Brilliant Anti-Armor Submunition(BAT)* Army

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Army		Date: February 2018
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604768A I Brilliant Anti-Armor Submunition(BAT)	Project (Number/Name) P01 / Multi-Mode Seeker Development and Test
C. Other Program Funding Summary (\$ in Millions)		
Remarks		
N/A		

D. Acquisition Strategy

Accelerate the transition of Strategic Capabilities Office (SCO) STRIKE-X program demonstrated capabilities into ATACMS.

E. Performance Metrics

N/A

PE 0604768A: *Brilliant Anti-Armor Submunition(BAT)* Army

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

R-1 Program Element (Number/Name)

Date: February 2018

Appropriation/Budget Activity

PE 0604768A I Brilliant Anti-Armor

Project (Number/Name) P01 I Multi-Mode Seeker Development and

Test

2040 / 5

Submunition(BAT)

Management Service	es (\$ in M	illions)		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
Gov SEPM	MIPR	Various : RSA	-	-		1.000		0.947	Nov 2019	-		0.947	0.000	1.947	-
		Subtotal	-	-		1.000		0.947		-		0.947	0.000	1.947	N/A

Remarks

RSA-Redstone Arsenal, Alabama

Product Developmen	nt (\$ in M	illions)		FY 2	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
Seeker Development	C/CPFF	Various : Various	-	-		1.000		1.500	Jan 2019	-		1.500	0.000	2.500	-
System Analysis, Requirement & Spec Dev	MIPR	AMRDEC : RSA	-	-		1.500		1.500		-		1.500	0.000	3.000	-
		Subtotal	-	-		2.500		3.000		-		3.000	0.000	5.500	N/A

Remarks

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

Test and Evaluation	(\$ in Milli	ions)		FY	2017	FY 2	2018		2019 ise		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 Hardware	MIPR	Redstone Test Center : RSA	-	-		1.500		1.000	Nov 2019	-		1.000	0.000	2.500	-
		Subtotal	-	-		1.500		1.000		-		1.000	0.000	2.500	N/A

Remarks

RSA-Redstone Arsenal, Alabama

PE 0604768A: Brilliant Anti-Armor Submunition(BAT) Army

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2	019 Army					Da	i te: Februar	y 2018	
Appropriation/Budget Activity 2040 / 5			_	m Element (Number/I A I Brilliant Anti-Armo n(BAT)	,	Project (Num P01 / Multi-M Test	,	Developm	nent and
	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2			Total Cost	Target Value of Contract
Project Cost Totals	-	-	5.000	4.947	-	4	947 0.000	9.947	N/A

Remarks

PE 0604768A: *Brilliant Anti-Armor Submunition(BAT)* Army

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

Date: February 2018

Appropriation/Budget Activity

2040 / 5

R-1 Program Element (Number/Name)
PE 0604768A I Brilliant Anti-Armor
Submunition(BAT)

Project (Number/Name)

P01 I Multi-Mode Seeker Development and

Test

Event Name	L		2017				Y 2						201		1			202					202				Y 2					 023	_
System Analysis, Requirement & Spec Development	1	2	3	4	1	2	2	3	4	1	1	2	3	4		1	2	3	4	1	;	2	3	4	1	2	!	3	4	1	2	3	
Sensor Study & Analysis																																	
Sensor Development																																	
System Integration																																	
System Engineering Development Tests																																	
System Flight Test Demonstrations (DM-1 thru DM-4)																																	
Sensor Subsystem Qualification																																	
System Qualification Flight Tests (SQT-1 thru -6)																																	
System Updates, Delta-Qual, and Fielding Support																																	

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Army			Date: February 2018
Appropriation/Budget Activity 2040 / 5	,	- 3 (umber/Name) -Mode Seeker Development and

Schedule Details

	St	art	E	nd
Events	Quarter	Year	Quarter	Year
System Analysis, Requirement & Spec Development	1	2018	4	2018
Sensor Study & Analysis	2	2018	4	2018
Sensor Development	4	2018	3	2020
System Integration	3	2018	1	2021
System Engineering Development Tests	2	2020	3	2020
System Flight Test Demonstrations (DM-1 thru DM-4)	3	2020	1	2021
Sensor Subsystem Qualification	3	2020	1	2021
System Qualification Flight Tests (SQT-1 thru -6)	1	2021	3	2021
System Updates, Delta-Qual, and Fielding Support	1	2021	4	2023