Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Army

Date: March 2019

Appropriation/Budget Activity

2040: Research, Development, Test & Evaluation, Army I BA 4: Advanced

PE 0604182A I Hypersonics

R-1 Program Element (Number/Name)

Component Development & Prototypes (ACD&P)

COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	228.000	-	228.000	181.000	137.000	359.000	274.000	0.000	1,179.000
HX1: Land-Based Hypersonic Missile	-	0.000	0.000	228.000	-	228.000	181.000	137.000	359.000	274.000	0.000	1,179.000

Note

This program is a new start beginning in FY 2020.

A. Mission Description and Budget Item Justification

B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	228.000	-	228.000
Total Adjustments	0.000	0.000	228.000	-	228.000
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
 SBIR/STTR Transfer 	-	-			
 Adjustments to Budget Years 	-	-	228.000	-	228.000

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R-1 Line #100

PE 0604182A: Hypersonics Army

Exhibit R-2A, RDT&E Project Justification: PB 2020 Army												
Appropriation/Budget Activity 2040 / 4		, , , ,					lumber/Name) d-Based Hypersonic Missile					
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
HX1: Land-Based Hypersonic Missile	-	0.000	0.000	228.000	-	228.000	181.000	137.000	359.000	274.000	0.000	1,179.000
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

This is a New program beginning in FY2020.

A. Mission Description and Budget Item Justification

This Program Element (PE) funds hypersonic development efforts performed by the US Army Space and Missile Defense Command/Army Forces Strategic Command (USASMDC/ARSTRAT).

Project HX1: Funds USASMDC/ARSTRAT to prototype a Long Range Hypersonic Weapon (LRHW) System is to provide the Army with a prototype strategic attack weapon system to defeat Anti Access/Area Denial (A2/AD) capabilities, suppress adversary Long Range Fires, and engage other high payoff/time sensitive targets. The LRHW Integrated System contractor will integrate Common Hypersonic Glide Bodies (CHGBs) with 2 stage boosters into canisters to create LRHW All Up Rounds (AUR) as detailed in the following sections and a build a prototype LRHW System. A leave behind prototype LRHW system is expected as an Early Operational Capability (EOC).

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
Title: Land Based Hypersonic Missile	-	-	228.000
Description: Funding is provided for planning,.			
FY 2020 Plans: The Army Hypersonic Project Office will work with the Weapon System Integration Contractor to get through Systems Requirements Review and move towards a Preliminary Design Review for the system. Funding will be used to order CHGBs and boosters for integration into All Up Rounds starting in FY21.			
FY 2019 to FY 2020 Increase/Decrease Statement: New program for FY2020			
Accomplishments/Planned Programs Subtota	s -	-	228.000

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

N/A

Army

Remarks

PE 0604182A: Hypersonics

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Exhibit R-2A, RDT&E Project Justification: PB 2020 A	Army	Date: March 2019
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / Hypersonics	Project (Number/Name) HX1 / Land-Based Hypersonic Missile
D. Acquisition Strategy		<u>'</u>
N/A		
E Budana Matala		
E. Performance Metrics N/A		
IN/A		

PE 0604182A: Hypersonics Army

Appropriation/Budge	t Activity					R-1 Pro	ogram Fl	ement (N	umber/N	ame)	Project	(Number	/Name)		
2040 / 4	· Activity							-lypersoni					d Hyperso	onic Miss	ile
Management Service	s (\$ in M	illions)		FY 2	2018	FY:	2019	FY 2 Ba			2020 CO	FY 2020 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 Personnel and Operations Support	TBD	.SMDC/ARSTRAT Huntsville AL :	-	-		-		20.000		-		20.000	0.000	20.000	-
		Subtotal	-	-		-		20.000		-		20.000	0.000	20.000	N/A
Product Developmen	t (\$ in M	illions)		FY 2	2018	FY:	2019	FY 2 Ba			2020 CO	FY 2020 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
.Contracts for Technology Development, and weapon system design, integration, and prototyping	TBD	.TBD : .	-	-		-		208.000		-		208.000	0.000	208.000	-
		Subtotal	-	-		-		208.000		-		208.000	0.000	208.000	N/A
Support (\$ in Millions	s)			FY 2	2018	FY:	2019	FY 2 Ba			2020 CO	FY 2020 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
	TBD	.:.	-	-		-		0.000		-		0.000	-	-	-
		Subtotal	-	-		-		0.000		-		0.000	-	-	N/A
Test and Evaluation (\$ in Milli	ons)		FY	2018	FY	2019	FY 2 Ba			2020 CO	FY 2020 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
•	TBD	.:.	-	-		-		0.000		-		0.000	-	-	-
		Subtotal	-	-		-		0.000		-		0.000	-	-	N/A
			Prior Years	FY 2	2018	FY:	2019	FY 2 Ba			2020 CO	FY 2020 Total	Cost To	Total Cost	Target Value of Contract
		Project Cost Totals		_		0.000		228.000		_		228.000	0.000	228.000	N/A

PE 0604182A: *Hypersonics* Army

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Army Date: March 2019									
Appropriation/Budget Activity 2040 / 4			R-1 Program EI PE 0604182A / /	Proje HX1 /	Project (Number/Name) HX1 / Land-Based Hypersonic Missile				
	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	Cost To Complete	Total Cost	Target Value o Contra
Remarks									

PE 0604182A: Hypersonics Army

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Exhibit R-4, RDT&E Schedule Profile: PB 2020 Army

Appropriation/Budget Activity

2040 / 4

R-1 Program Element (Number/Name)
PE 0604182A / Hypersonics

PE 0604182A / Hypersonics

Date: March 2019

Project (Number/Name)
HX1 / Land-Based Hypersonic Missile

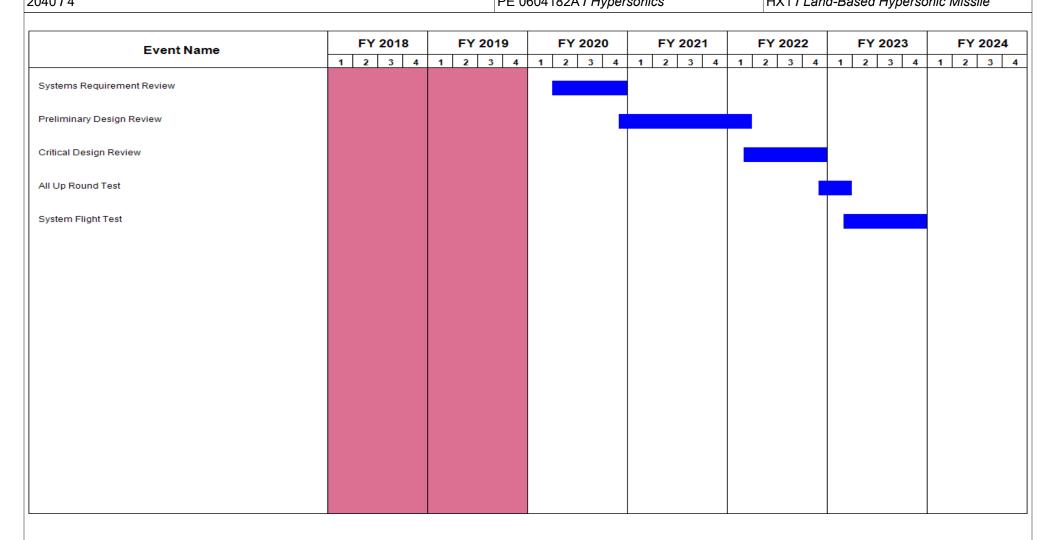


Exhibit R-4A, RDT&E Schedule Details: PB 2020 Army			Date: March 2019
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
2040 / 4	PE 0604182A I Hypersonics	HX1 I Land	d-Based Hypersonic Missile

Schedule Details

	St	art	End		
Events	Quarter	Year	Quarter	Year	
Systems Requirement Review	2	2020	4	2020	
Preliminary Design Review	4	2020	1	2022	
Critical Design Review	1	2022	4	2022	
All Up Round Test	4	2022	1	2023	
System Flight Test	1	2023	4	2023	