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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	-	841.666	315.131	173.168	-	173.168	43.244	28.014	0.000	0.000	0.000	1,401.223
HX1: <i>Long-Range Hypersonic Weapon</i>	-	841.666	315.131	-	-	-	-	-	-	-	0.000	1,156.797
HX3: <i>All Up Round and Canister (AUR+C)</i>	-	-	-	45.233	-	45.233	-	-	-	-	0.000	45.233
HX4: <i>Common Hypersonic Glide Body (CHGB)</i>	-	-	-	40.710	-	40.710	-	-	-	-	0.000	40.710
HX5: <i>Ground Support Equipment (GSE)</i>	-	-	-	72.842	-	72.842	43.244	28.014	-	-	0.000	144.100
HX6: <i>Test and Evaluation</i>	-	-	-	14.383	-	14.383	-	-	-	-	0.000	14.383

Note

This funding will transition the Budget Activity (BA) 4 activities managed by the Rapid Capabilities and Critical Technologies Office (RCCTO) within Program Element (PE) 0604182A / Hypersonics to a Program of Record managed by Program Executive Office (PEO) Missiles and Space within PE 0605232A / Hypersonics EMD.

A. Mission Description and Budget Item Justification

The work in this PE supports the research, development, prototype, test and evaluation of technology to rapidly and efficiently procure, transition, and/or field critical enabling technologies and capabilities that address near-term, and mid-term threats and is directly aligned to the Army Long Range Precision Fires modernization priority.

The Program Element (PE) 0604182A Hypersonics funds the Rapid Capabilities and Critical Technologies Office (RCCTO) hypersonic effort. This includes the development and prototype fielding of a Long Range Hypersonic Weapon to suppress adversary Long Range Fires and engage other high payoff/time critical targets. This encompasses the growth, testing and transition of Long Range Fires technologies.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>
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B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	832.166	300.928	0.000	-	0.000
Current President's Budget	841.666	315.131	173.168	-	173.168
Total Adjustments	9.500	14.203	173.168	-	173.168
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-34.480			
• Congressional Rescissions	-	-			
• Congressional Adds	-	49.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	9.500	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	173.168	-	173.168
• FFRDC Transfer	-	-0.317	-	-	-

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: HX1: *Long-Range Hypersonic Weapon*

Congressional Add: *Program increase - hypersonic glide body risk reduction*

Congressional Add: *Program increase - hypersonic and strategic materials and structures*

Congressional Add: *Program Increase - Near Net Shape Materials*

Congressional Add Subtotals for Project: HX1

Congressional Add Totals for all Projects

	FY 2021	FY 2022
	50.000	44.000
	10.000	-
	-	5.000
Congressional Add Subtotals for Project: HX1	60.000	49.000
Congressional Add Totals for all Projects	60.000	49.000

Change Summary Explanation

FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army										Date: April 2022		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>				Project (Number/Name) HX1 / <i>Long-Range Hypersonic Weapon</i>			
COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
HX1: <i>Long-Range Hypersonic Weapon</i>	-	841.666	315.131	-	-	-	-	-	-	-	0.000	1,156.797
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Previously, the Rapid Capabilities and Critical Technologies Office (RCCTO) Hypersonics funding (FY20-FY25) was captured within Program Element (PE) 0604182A / Hypersonics, Project HX1 / Long-Range Hypersonic Weapon. Beginning in FY23, all funding is realigned from Project HX1 to Project HX3, HX4, HX5 and HX6 beneath PE 0604182A / Hypersonics.

This funding, along with the realigned funding to the project codes beneath PE 0604182A / Hypersonics, will transition the Budget Activity (BA) 4 activities managed by the RCCTO to a Program of Record managed by Program Executive Office (PEO) Missiles and Space within PE 0605232A / Hypersonics EMD.

A. Mission Description and Budget Item Justification

Funds the RCCTO to field an experimental prototype Hypersonic Weapon System with residual combat capability at the Battery Level as part of the Long Range Fires Battalion in support of Multi-domain Operations by the end of FY 2023. Initial fielding of all ground support equipment and training canisters, less live rounds, was completed in FY 2021. The Long Range Hypersonic Weapon (LRHW) system will provide the Army 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 critical targets. The Army is working closely with the Navy in the development of the LRHW. Common with the Navy, the LRHW system includes a Common Hypersonic Glide Body (CHGB) and common 34.5 inch booster. Additionally, the LRHW will use an existing Command and Control (C2) Network, the Advanced Field Artillery Tactical Data System (AFATDS).

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

	FY 2021	FY 2022	FY 2023
Title: Long Range Hypersonic Weapon	772.166	-	-
Description: Funding is provided for planning, prototype manufacturing and testing of the Long Range Hypersonic Weapon.			
Title: Common Hypersonic Glide Body (CHGB)	-	20.593	-
Description: This effort is the development, purchase of hardware, integration, assembly, test and delivery of the Common Hypersonic Glide Body (CHGB) system for the All Up Round and Canister (AUR+C).			
FY 2022 Plans: In FY 2022, Common Hypersonic Glide Body fabrication and assembly will significantly increase effort to support the delivery of flight test and fielded CHGB assets. Primary efforts include material purchases, manufacturing, assembly, integration, test, and checkout of CHGB components, subsystems, and systems. Additional investments in facilities, tooling, and resources required to meet production rates will occur in FY 2022. Thermal Protection System (TPS) Integrator will begin material purchases, facilities			

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022		
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>	Project (Number/Name) HX1 / <i>Long-Range Hypersonic Weapon</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
investments, and shadowing current performers as a part of the leader-follower construct to transition production responsibility to the industrial base. FY 2022 to FY 2023 Increase/Decrease Statement: The decrease is due to the funding being realigned to Project HX4 / Common Hypersonic Glide Body (CHGB) under PE 0604182A / Hypersonics.				
Title: All Up Round and Canister (AUR+C) Description: This effort is the development, purchase of hardware, integration, assembly, test and delivery of the All Up Round and Canister (AUR+C). FY 2022 Plans: Continue fabrication and begin assembly of AUR+C prototypes for flight testing and FY 2023 fielding. Continue maturation of software and hardware technologies. Conduct pre-test planning, execution, and post-test analysis. Begin Insensitive Munition and Hazard Classification (IM/HC) testing. FY 2022 to FY 2023 Increase/Decrease Statement: The decrease is due to the funding being realigned to Project HX3 / All Up Round and Canister (AUR+C) under PE 0604182A / Hypersonics.		-	97.132	-
Title: Ground Support Equipment (GSE) Description: This funding is provided for planning, manufacturing and integration efforts for the Battery Operations Center (BOC), Transporter Erector Launcher (TEL), the Fielding and Transition efforts as well as the overall Systems Integration with the All Up Round and Canister (AUR+C) for the LRHW program. FY 2022 Plans: Supports execution of training and logistics for fielded equipment including maintenance and repair/replacement of system components in order to maintain operational readiness. Includes systems integration activities in lab and field environment of the All-Up Round and Canister (AUR+C), Transporter Erector Launcher (TEL) and Battery Operations Center (BOC) hardware and software. Planning and execution of ground and flight test events utilizing TEL and BOC followed by post-test data analysis and evaluation of test results. Software development and maintenance to incorporate design changes resulting from test events as well as user feedback. Development of the product-level technical data package documenting the design of the TEL and BOC. Includes engineering support for technology insertion to the weapon system driving hardware and software changes to the system. FY 2022 to FY 2023 Increase/Decrease Statement:		-	86.867	-

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022		
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>	Project (Number/Name) HX1 / <i>Long-Range Hypersonic Weapon</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
The decrease is due to the funding being realigned to Project HX5 / Ground Support Equipment (GSE) under PE 0604182A / Hypersonics.				
<p>Title: Test and Evaluation</p> <p>Description: Test and evaluation includes test planning, execution and analysis of 3 major flight tests. Also provides required support for environmental testing.</p> <p>FY 2022 Plans: JFC-1 requirements include Post Flight Test analysis, Transportation of equipment and Soldier TDY. JFC-2 requirements include range costs at Cape Canaveral Space Force Station (CCSFS), integration efforts at Lockheed Martin (LM), data collection infrastructure, mission planning, execution costs and Soldier TDY. JFC-3 requirements include mission objective development and range integration costs. Will support Environmental testing.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: The decrease is due to the funding being realigned to Project HX6 / Test and Evaluation under PE 0604182A / Hypersonics.</p>		-	51.814	-
<p>Title: Reprogramming - Data Links Integration</p> <p>Description: Incorporation of Data links: - Complete Requirements, Concept of Operations (CONOPS), Architecture and Interfaces for data links - Initiate integration of an UltraScale+ (US+) Advanced Computer into the CHGB</p>		9.500	-	-
<p>Title: Small Business Innovation Research (SBIR)/Small Business Technology Transfer (STTR)</p> <p>FY 2022 Plans: Funding transferred in accordance with Title 15 USC 7638</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC 7638</p>		-	9.725	-
Accomplishments/Planned Programs Subtotals		781.666	266.131	-
		FY 2021	FY 2022	
<p>Congressional Add: Program increase - hypersonic glide body risk reduction</p> <p>FY 2021 Accomplishments: Common Hypersonic Glide Body (CHGB) production will ramp up with the purchase of additional equipment. RCCTO will purchase critical spare parts to offset risk for flight tests. RCCTO will further develop critical skills and infrastructure to increase CHGB rate production and accommodate upgrades and will improve supplier base and manufacturing capabilities. RCCTO will develop automated test</p>		50.000	44.000	

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / Hypersonics	Project (Number/Name) HX1 / Long-Range Hypersonic Weapon
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	FY 2021	FY 2022
equipment and design and develop CHGB test articles for use in CHGB or AUR risk reduction and safety testing. The production engineering effort to make design more affordable will continue.		
FY 2022 Plans: Furthers efforts executed under FY21 109 \$50.000M ?Hypersonic Glidebody Risk Reduction?. RCCTO will purchase additional equipment for Common Hypersonic Glidebody (CHGB) production ramp up, purchase critical spare parts to offset risk for flight tests, improve supplier base and manufacturing capabilities, develop test equipment and continue production engineering efforts to make design more affordable.		
Congressional Add: Program increase - hypersonic and strategic materials and structures	10.000	-
FY 2021 Accomplishments: Data inputs for the National Hypersonic Materials Database will be provided. Environments and design test matrices will be defined. Materials and fabricate specimens will be purchased. Framework for database will be initialized. Metal materials will be characterized and initial non-metal characterized. Additive manufacturing (metals) research will be conducted. Develop and characterize materials for the Common Hypersonic Glide Body (CHGB) Thermal Protection System (TPS) including Carbon-Carbon and other extreme hi-temp materials will be conducted.		
Congressional Add: Program Increase - Near Net Shape Materials	-	5.000
FY 2022 Plans: This effort focuses on optimizing the use of 3 Dimensional Carbon-Carbon (3DCC) in the Thermal Protection System (TPS). The intent is to decrease waste, improve producibility and reduce overall cost.		
Congressional Adds Subtotals	60.000	49.000

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

N/A

Remarks

D. Acquisition Strategy

The Army will field an experimental prototype Hypersonic Weapons System with residual operational capability NLT FY 2023 at the Battery Level as part of the Strategic Fires Battalion in support of Multi-domain Operations. Contractor Logistics Support (CLS) will be provided for one year following the delivery of the first battery. RCCTO uses a combination of Other Transaction Authority's (OTA's) and the Navy Conventional Prompt Strike (CPS) contract with Lockheed Martin. Long-lead procurement is required 2 years prior to delivery resulting in a significant ramp up of funding in FY 2021 to meet the FY 2022 manufacturing and FY 2023 fielding requirement. Quick awards of the OTA and Navy CPS contracts ensure procurements are executed with adequate time to execute the funds and program requirements. A SETA contract provides support to the Government Project Office. The PEO M&S transition team is currently embedded within RCCTO to ensure an efficient transition in FY 2024 as a program of record.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / Hypersonics	Project (Number/Name) HX1 / Long-Range Hypersonic Weapon
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Management Services (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Government Personnel and Operations Support	Various	Project Office Support : Huntsville, AL	24.823	28.606		-		-		-		-	0.000	53.429	-
CHGB: Government Personnel and Operations Support	Various	Project Office Support : Huntsville, AL	-	-		3.580		-		-		-	0.000	3.580	-
AUR+C: Government Personnel and Operations Support	Various	Project Office Support : Huntsville, AL	-	-		5.847		-		-		-	0.000	5.847	-
GSE: Government Personnel and Operations Support	Various	Project Office Support : Huntsville, AL	-	-		7.206		-		-		-	0.000	7.206	-
Test: Government Personnel and Operations Support	Various	Project Office Support : Huntsville, AL	-	-		4.373		-		-		-	0.000	4.373	-
SBIR/STTR Transfer	TBD	Various : Various	-	-		9.725		-		-		-	0.000	9.725	-
Subtotal			24.823	28.606		30.731		-		-		-	0.000	84.160	N/A

Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Contracts for technology development, and weapon design, integration, prototyping and testing	C/Various	various : multiple	369.796	813.060		-		-		-		-	0.000	1,182.856	-
CHGB: Dynetics Technical Solution (DTS)	C/CPFF	Manufacturing of the CHGB : Huntsville, AL	-	-		23.600		-		-		-	0.000	23.600	-
TPS: Dynetics Technical Solutions (DTS)	C/CPFF	Manufacturing of TPS : Huntsville, AL	-	-		18.099		-		-		-	0.000	18.099	-
CHGB: Various	Various	CHGB/TPS : Huntsville, AL	-	-		24.315		-		-		-	0.000	24.315	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>	Project (Number/Name) HX1 / <i>Long-Range Hypersonic Weapon</i>
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Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
AUR+C: Lockheed Martin	C/Various	Manufacturing and delivery of the LRHW booster and canister : Denver, CO	-	-		83.903		-		-		-	0.000	83.903	-
AUR+C: Various	Various	AUR+C : Multiple	-	-		7.382		-		-		-	0.000	7.382	-
GSE: Lockheed Martin	C/CPFF	Software development and maintenance, weapons systems integration, test planning and execution support for JFC-2 and JFC-3 : Huntsville, AL	-	-		76.531		-		-		-	65.642	142.173	-
GSE: Various	Various	Ground Spt Equipment : Huntsville, AL	-	-		3.129		-		-		-	0.992	4.121	-
Subtotal			369.796	813.060		236.959		-		-		-	66.634	1,486.449	N/A

Remarks
The CHGB contractor, DTS, will be funded by additional customers of the Common Hypersonic Glide Body.

Test and Evaluation (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Test: Flight Test Planning and Execution	Various	Flight Test Planning and Execution : Various	-	-		47.441		-		-		-	0.000	47.441	-
Subtotal			-	-		47.441		-		-		-	0.000	47.441	N/A

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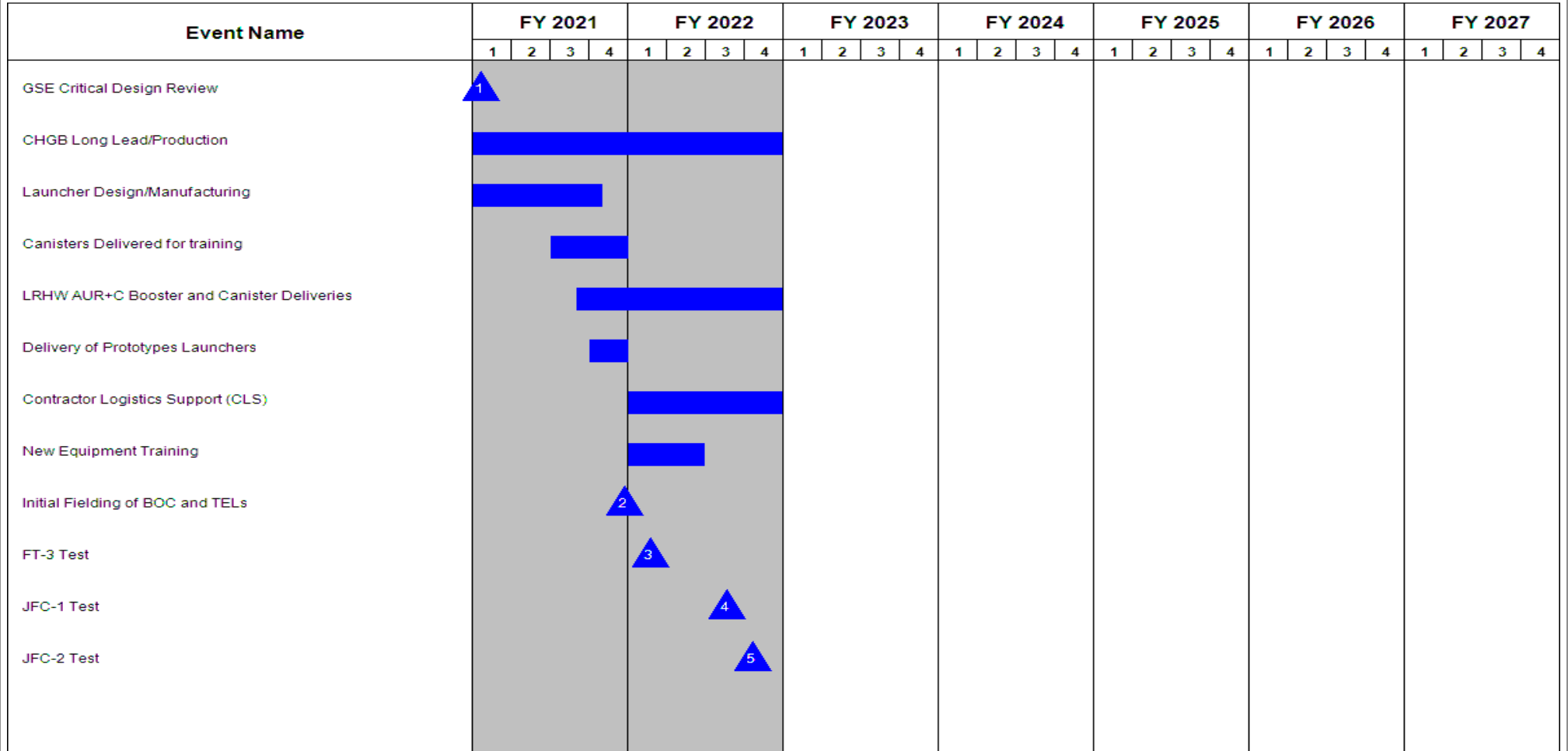
Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army								Date: April 2022			
Appropriation/Budget Activity 2040 / 4				R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>				Project (Number/Name) HX1 / <i>Long-Range Hypersonic Weapon</i>			
	Prior Years	FY 2021		FY 2022		FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	394.619	841.666		315.131		-	-	-	66.634	1,618.050	N/A

Remarks
 Original breakout of the form is expanded to show more detail. Contracts for technology development and weapon design, integration, prototyping and testing cost category captured under Product Development is broken out into multiple cost categories. Additionally, Government Personnel and Operations Support captured under Management Services is broken out into multiple cost categories.

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>	Project (Number/Name) HX1 / <i>Long-Range Hypersonic Weapon</i>
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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>	Project (Number/Name) HX1 / <i>Long-Range Hypersonic Weapon</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Integration Systems Requirement Review	1	2020	1	2020
AUR+C Preliminary Design Review	2	2020	2	2020
GSE Preliminary Design Review	2	2020	2	2020
Launcher Preliminary Design Review	3	2020	3	2020
GSE Critical Design Review	1	2021	1	2021
CHGB Long Lead/Production	1	2020	4	2022
Launcher Design/Manufacturing	1	2020	4	2021
Canisters Delivered for training	3	2021	4	2021
LRHW AUR+C Booster and Canister Deliveries	3	2021	4	2022
Delivery of Prototypes Launchers	4	2021	4	2021
Contractor Logistics Support (CLS)	1	2022	4	2022
New Equipment Training	1	2022	2	2022
Initial Fielding of BOC and TELs	4	2021	4	2021
FT-3 Test	1	2022	1	2022
JFC-1 Test	3	2022	3	2022
JFC-2 Test	4	2022	4	2022

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>	Project (Number/Name) HX3 / <i>All Up Round and Canister (AUR+C)</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
HX3: <i>All Up Round and Canister (AUR+C)</i>	-	-	-	45.233	-	45.233	-	-	-	-	0.000	45.233
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Work in this project continues the work done under PE 0604182A / Hypersonics, Project HX1 / Long-Range Hypersonic Weapon.

Previously, the Rapid Capabilities and Critical Technologies Office (RCCTO) Hypersonics funding (FY20-FY25) was captured within Program Element (PE) 0604182A / Hypersonics under Project HX1 / Long-Range Hypersonic Weapon. Beginning in FY23, all remaining funding for All Up Round and Canister (AUR+C) RCCTO requirements was realigned to Project HX3 / All Up Round and Canister (AUR+C).

This funding will transition the Budget Activity (BA) 4 AUR+C activities managed by the RCCTO to a Program of Record managed by Program Executive Office (PEO) Missiles and Space within PE 0605232A / Hypersonics EMD.

A. Mission Description and Budget Item Justification

Funds the RCCTO to field an experimental prototype Hypersonic Weapon System with residual combat capability at the Battery Level as part of the Long Range Fires Battalion in support of Multi-domain Operations by the end of FY 2023. Initial fielding of all ground support equipment and training canisters, less live rounds, was completed in FY 2021. The Long Range Hypersonic Weapon (LRHW) system will provide the Army 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 critical targets. The Army is working closely with the Navy in the development of the LRHW. Common with the Navy, the LRHW system includes a Common Hypersonic Glide Body (CHGB) and common 34.5 inch booster. Additionally, the LRHW will use an existing Command and Control (C2) Network, the Advanced Field Artillery Tactical Data System (AFATDS).

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

	FY 2021	FY 2022	FY 2023
Title: All Up Round and Canister (AUR+C)	-	-	45.233
Description: This effort is the development, purchase of hardware, integration, assembly, test and delivery of the All Up Round and Canister (AUR+C).			
FY 2023 Plans: Technologies will continue to be updated based on FY 2022 test outcomes. Complete All Up Round and Canister (AUR+C) assembly, integration, acceptance testing and delivery. Support test preparation, execution, and post-flight analysis. Complete Insensitive Munition / Hazard Classification tests.			
FY 2022 to FY 2023 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army	Date: April 2022
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Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>	Project (Number/Name) HX3 / <i>All Up Round and Canister (AUR+C)</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
Increase is due to the funding being realigned from Project HX1 / Long-Range Hypersonic Weapon to Project HX3 / All Up Round and Canister (AUR+C).			
Accomplishments/Planned Programs Subtotals	-	-	45.233

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

N/A

Remarks

D. Acquisition Strategy

The RCCTO has a program level acquisition strategy that will field an experimental prototype Hypersonic Weapons System with residual operational capability NLT FY 2023 at the Battery Level as part of the Long Range Fires Battalion in support of Multi-domain Operations. Contractor Logistics Support (CLS) will be provided for one year following the delivery of the first battery. RCCTO uses a combination of Other Transaction Authority's (OTA's) and the Navy Conventional Prompt Strike (CPS) contract with Lockheed Martin. The AUR+C is currently embedded into this strategy as a project. Long lead procurement is required 2 years prior to delivery resulting in a significant ramp up of funding in FY 2021 to meet the FY 2022 manufacturing and FY 2023 fielding requirement. Quick awards of the OTA and Navy CPS contracts ensure procurements are executed with adequate time to execute the funds and program requirements. A SETA contract provides support to the Government Project Office. The PEO M&S transition team is currently embedded within RCCTO to ensure an efficient transition in FY 2024 as a program of record.

The detailed acquisition strategy specific to AUR+C will be defined by PEO M&S to support the follow on AUR+C requirements currently funded in PE 0605232A / Hypersonics Weapon (LRHW), Project HX2.

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>	Project (Number/Name) HX3 / <i>All Up Round and Canister (AUR+C)</i>
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Event Name	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
	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
Army Canister Deliveries																												
LRHW AUR+C Booster Deliveries																												
JFC-3 Test									▲ 1																			
IM/HC Testing																												
LRHW FUI																	▲ 2											

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>	Project (Number/Name) HX3 / <i>All Up Round and Canister (AUR+C)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Army Canister Deliveries	1	2023	4	2023
LRHW AUR+C Booster Deliveries	1	2023	4	2023
JFC-3 Test	2	2023	2	2023
IM/HC Testing	3	2023	4	2023
LRHW FUI	4	2023	4	2023

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army										Date: April 2022		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>				Project (Number/Name) HX4 / <i>Common Hypersonic Glide Body (CHGB)</i>			
COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
HX4: <i>Common Hypersonic Glide Body (CHGB)</i>	-	-	-	40.710	-	40.710	-	-	-	-	0.000	40.710
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Work in this project continues the work done under PE 0604182A / Hypersonics, Project HX1 / Long-Range Hypersonic Weapon.

Previously, the Rapid Capabilities and Critical Technologies Office (RCCTO) Hypersonics funding (FY20-FY25) was captured within Program Element (PE) 0604182A / Hypersonics under Project HX1 / Long-Range Hypersonic Weapon. Beginning in FY23, all remaining funding for Common Hypersonic Glide Body (CHGB) RCCTO requirements was realigned to Project HX4 / Common Hypersonic Glide Body (CHGB).

This funding will transition the Budget Activity (BA) 4 CHGB activities managed by the RCCTO to a Program of Record managed by Program Executive Office (PEO) Missiles and Space within PE 0605232A / Hypersonics EMD.

A. Mission Description and Budget Item Justification

Funds the RCCTO to field an experimental prototype Hypersonic Weapon System with residual combat capability at the Battery Level as part of the Long Range Fires Battalion in support of Multi-domain Operations by the end of FY 2023. Initial fielding of all ground support equipment and training canisters, less live rounds, was completed in FY 2021. The Long Range Hypersonic Weapon (LRHW) system will provide the Army 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 critical targets. The Army is working closely with the Navy in the development of the LRHW. Common with the Navy, the LRHW system includes a Common Hypersonic Glide Body (CHGB) and common 34.5 inch booster. Additionally, the LRHW will use an existing Command and Control (C2) Network, the Advanced Field Artillery Tactical Data System (AFATDS).

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

	FY 2021	FY 2022	FY 2023
Title: Common Hypersonic Glide Body (CHGB)	-	-	40.710
Description: This effort is the development, purchase of the hardware, integration, assembly, test and delivery of the Common Hypersonic Glide Body (CHGB) system for the missile.			
FY 2023 Plans:			
In FY 2023, fabrication and assembly of Common Hypersonic Glide Body (CHGB) prototypes will ramp up to JFC-3 flight test, qualification testing and fielding of the first LRHW battery. Primary efforts include manufacturing, assembly, test and checkout of the CHGB components and subsystems. Additional efforts include sub-assembly activities and integration, assembly and test			

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022		
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>	Project (Number/Name) HX4 / <i>Common Hypersonic Glide Body (CHGB)</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
of complete CHGBs for the Army's first LRHW battery. The new industry Thermal Protection System (TPS) integrator will begin integration, assembly and test efforts and continue long lead material procurements to support future deliveries.				
FY 2022 to FY 2023 Increase/Decrease Statement: Increase is due to the funding being realigned from Project HX1 / Long-Range Hypersonic Weapon to Project HX4 / Common Hypersonic Glide Body (CHGB).				
Accomplishments/Planned Programs Subtotals		-	-	40.710
C. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
D. Acquisition Strategy The RCCTO has a program level acquisition strategy that will field an experimental prototype Hypersonic Weapons System with residual operational capability NLT FY 2023 at the Battery Level as part of the Long Range Fires Battalion in support of Multi-domain Operations. Contractor Logistics Support (CLS) will be provided for one year following the delivery of the first battery. RCCTO uses a combination of Other Transaction Authority's (OTA's) and the Navy Conventional Prompt Strike (CPS) contract with Lockheed Martin. The CHGB is currently embedded into this strategy as a project. Long lead procurement is required 2 years prior to delivery resulting in a significant ramp up of funding in FY 2021 to meet the FY 2022 manufacturing and FY 2023 fielding requirement. Quick awards of the OTA and Navy CPS contracts ensure procurements are executed with adequate time to execute the funds and program requirements. A SETA contract provides support to the Government Project Office. The PEO M&S transition team is currently embedded within RCCTO to ensure an efficient transition in FY 2024 as a program of record. The detailed acquisition strategy specific to CHGB will be defined by PEO M&S to support the follow on CHGB requirements currently funded in PE 0605232A / Hypersonics Weapon (LRHW), Project HX2.				

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 Army			Date: April 2022
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>	Project (Number/Name) HX4 / <i>Common Hypersonic Glide Body (CHGB)</i>	

Event Name	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
	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
CHGB Deliveries																												
JFC-3 Test									▲ 1																			
LRHW FUI													▲ 2															

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>	Project (Number/Name) HX4 / <i>Common Hypersonic Glide Body (CHGB)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
CHGB Deliveries	1	2023	3	2023
JFC-3 Test	2	2023	2	2023
LRHW FUI	4	2023	4	2023

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army										Date: April 2022		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>				Project (Number/Name) HX5 / <i>Ground Support Equipment (GSE)</i>			
COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
HX5: <i>Ground Support Equipment (GSE)</i>	-	-	-	72.842	-	72.842	43.244	28.014	-	-	0.000	144.100
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Work in this project continues the work done under PE 0604182A / Hypersonics, Project HX1 / Long-Range Hypersonic Weapon.

Previously, the Rapid Capabilities and Critical Technologies Office (RCCTO) Hypersonics funding (FY20-FY25) was captured within Program Element (PE) 0604182A / Hypersonics under Project HX1 / Long-Range Hypersonic Weapon. Beginning in FY23, all remaining funding for Ground Support Equipment (GSE) RCCTO requirements was realigned to Project HX5 / Ground Support Equipment (GSE).

This funding will transition the Budget Activity (BA) 4 GSE activities managed by the RCCTO to a Program of Record managed by Program Executive Office (PEO) Missiles and Space within PE 0605232A / Hypersonics EMD.

FY25 funding will be re-aligned to PE 0605232A / Hypersonics EMD due to transition to a Program of Record managed by PEO Missiles and Space.

A. Mission Description and Budget Item Justification

Funds the RCCTO to field an experimental prototype Hypersonic Weapon System with residual combat capability at the Battery Level as part of the Long Range Fires Battalion in support of Multi-domain Operations by the end of FY 2023. Initial fielding of all ground support equipment and training canisters, less live rounds, was completed in FY 2021. The Long Range Hypersonic Weapon (LRHW) system will provide the Army 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 critical targets. The Army is working closely with the Navy in the development of the LRHW. Common with the Navy, the LRHW system includes a Common Hypersonic Glide Body (CHGB) and common 34.5 inch booster. Additionally, the LRHW will use an existing Command and Control (C2) Network, the Advanced Field Artillery Tactical Data System (AFATDS).

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

	FY 2021	FY 2022	FY 2023
Title: Ground Support Equipment (GSE)	-	-	72.842
Description: This funding is provided for planning, manufacturing and integration efforts for the Battery Operations Center (BOC), Transporter Erector Launcher (TEL), the Fielding and Transition efforts as well as the overall Systems Integration with the All Up Round and Canister (AUR+C) for the LRHW program.			
FY 2023 Plans: Supports execution of training and logistics for fielded equipment including maintenance and repair/replacement of system components (Contractor Logistics Support (CLS)) in order to maintain operational readiness. Includes systems integration activities in lab and field environment of the All-Up Round and Canister (AUR+C), Transporter Erector Launcher (TEL) and Battery			

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army	Date: April 2022
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Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>	Project (Number/Name) HX5 / <i>Ground Support Equipment (GSE)</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<p>Operations Center (BOC) hardware and software. Planning and execution of ground and flight test events utilizing TEL and BOC followed by post-test data analysis and evaluation of test results. Software development and maintenance to incorporate design changes resulting from test events as well as user feedback. Development of the product-level technical data package documenting the design of the TEL and BOC. Includes engineering support for technology insertion to the weapon system driving hardware and software changes to the system. Complete a delta New Equipment Training (NET) event to cover hardware and software changes as well as Soldier rotations.</p> <p><i>FY 2022 to FY 2023 Increase/Decrease Statement:</i> Increase is due to the funding being realigned from Project HX1 / Long-Range Hypersonic Weapon to Project HX5 / Ground Support Equipment (GSE).</p>			
Accomplishments/Planned Programs Subtotals	-	-	72.842

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

Remarks

D. Acquisition Strategy
The RCCTO has a program level acquisition strategy that will field an experimental prototype Hypersonic Weapons System with residual operational capability NLT FY 2023 at the Battery Level as part of the Long Range Fires Battalion in support of Multi-domain Operations. Contractor Logistics Support (CLS) will be provided for one year following the delivery of the first battery. RCCTO uses a combination of Other Transaction Authority's (OTA's) and the Navy Conventional Prompt Strike (CPS) contract with Lockheed Martin. The GSE is currently embedded into this strategy as a project. Long lead procurement is required 2 years prior to delivery resulting in a significant ramp up of funding in FY 2021 to meet the FY 2022 manufacturing and FY 2023 fielding requirement. Quick awards of the OTA and Navy CPS contracts ensure procurements are executed with adequate time to execute the funds and program requirements. A SETA contract provides support to the Government Project Office. The PEO M&S transition team is currently embedded within RCCTO to ensure an efficient transition in FY 2024 as a program of record.

The detailed acquisition strategy specific to GSE will be defined by PEO M&S to support the follow on GSE requirements currently funded in PE 0605232A / Hypersonics Weapon (LRHW), Project HX2.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>	Project (Number/Name) HX5 / <i>Ground Support Equipment (GSE)</i>
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Management Services (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
GSE: Government Personnel and Operations Support	Various	Project Office Support : Huntsville, AL	-	-		-		9.324		-		9.324	0.688	10.012	-
Subtotal			-	-		-		9.324		-		9.324	0.688	10.012	N/A

Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
GSE: Lockheed Martin	C/CPFF	Software development and maintenance, weapons systems integration, test planning and execution support for JFC-2 and JFC-3. : Huntsville, AL	-	-		-		53.531		-		53.531	67.613	121.144	-
GSE: Various	Various	Ground Support Equipment : Huntsville, AL	-	-		-		9.987		-		9.987	2.957	12.944	-
Subtotal			-	-		-		63.518		-		63.518	70.570	134.088	N/A

	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals		-	-	-	72.842	-	72.842	71.258	144.100	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>	Project (Number/Name) HX5 / <i>Ground Support Equipment (GSE)</i>
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Event Name	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
	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
Contractor Logistics Support (CLS)																												
JFC-3 Test																												
Delta New Equipment Training																												
LRHW FUI																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>	Project (Number/Name) HX5 / <i>Ground Support Equipment (GSE)</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Contractor Logistics Support (CLS)	1	2023	4	2025
JFC-3 Test	2	2023	2	2023
Delta New Equipment Training	4	2023	4	2023
LRHW FUI	4	2023	4	2023

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army										Date: April 2022		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>				Project (Number/Name) HX6 / <i>Test and Evaluation</i>			
COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
HX6: <i>Test and Evaluation</i>	-	-	-	14.383	-	14.383	-	-	-	-	0.000	14.383
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Work in this project continues the work done under PE 0604182A / Hypersonics, Project HX1 / Long-Range Hypersonic Weapon.

Previously, the Rapid Capabilities and Critical Technologies Office (RCCTO) Hypersonics funding (FY20-FY25) was captured within Program Element (PE) 0604182A / Hypersonics under Project HX1 / Long-Range Hypersonic Weapon. Beginning in FY23, all remaining funding for Test and Evaluation RCCTO requirements was realigned to Project HX6 / Test and Evaluation.

This funding will transition the Budget Activity (BA) 4 Test and Evaluation activities managed by the RCCTO to a Program of Record managed by Program Executive Office (PEO) Missiles and Space within PE 0605232A / Hypersonics EMD.

A. Mission Description and Budget Item Justification

Funds the RCCTO to field an experimental prototype Hypersonic Weapon System with residual combat capability at the Battery Level as part of the Long Range Fires Battalion in support of Multi-domain Operations by the end of FY 2023. Initial fielding of all ground support equipment and training canisters, less live rounds, was completed in FY 2021. The Long Range Hypersonic Weapon (LRHW) system will provide the Army 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 critical targets. The Army is working closely with the Navy in the development of the LRHW. Common with the Navy, the LRHW system includes a Common Hypersonic Glide Body (CHGB) and common 34.5 inch booster. Additionally, the LRHW will use an existing Command and Control (C2) Network, the Advanced Field Artillery Tactical Data System (AFATDS).

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

	FY 2021	FY 2022	FY 2023
Title: Test and Evaluation	-	-	14.383
Description: Test and evaluation includes test planning, execution, and analysis of 2 major flight tests. Also provides required support for environmental testing.			
FY 2023 Plans: JFC-2 requirements include Post Flight Test analysis. JFC-3 requirements include data collection infrastructure, execution costs, Soldier TDY and Post Flight Test analysis.			
FY 2022 to FY 2023 Increase/Decrease Statement: Increase is due to the funding being realigned from Project HX1 / Long-Range Hypersonic Weapon to Project HX6 / Test and Evaluation.			
Accomplishments/Planned Programs Subtotals	-	-	14.383

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army Date: April 2022

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>	Project (Number/Name) HX6 / <i>Test and Evaluation</i>
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C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

The RCCTO has a program level acquisition strategy that will field an experimental prototype Hypersonic Weapons System with residual operational capability NLT FY 2023 at the Battery Level as part of the Long Range Fires Battalion in support of Multi-domain Operations. Contractor Logistics Support (CLS) will be provided for one year following the delivery of the first battery. RCCTO uses a combination of Other Transaction Authority's (OTA's) and the Navy Conventional Prompt Strike (CPS) contract with Lockheed Martin. Test is currently embedded into this strategy as a project. Long lead procurement is required 2 years prior to delivery resulting in a significant ramp up of funding in FY 2021 to meet the FY 2022 manufacturing and FY 2023 fielding requirement. Quick awards of the OTA and Navy CPS contracts ensure procurements are executed with adequate time to execute the funds and program requirements. A SETA contract provides support to the Government Project Office. The PEO M&S transition team is currently embedded within RCCTO to ensure an efficient transition in FY 2024 as a program of record.

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>	Project (Number/Name) HX6 / <i>Test and Evaluation</i>
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Event Name	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
	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
JFC-2 Post Flight Analysis																												
JFC-3 Test																												
LRHW FUI																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604182A / <i>Hypersonics</i>	Project (Number/Name) HX6 / <i>Test and Evaluation</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
JFC-2 Post Flight Analysis	1	2023	2	2023
JFC-3 Test	2	2023	2	2023
LRHW FUI	4	2023	4	2023