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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Army **Date:** March 2023

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 0604135A / <i>Strategic Mid-Range Fires</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	404.291	31.559	0.000	31.559	0.000	0.000	0.000	0.000	0.000	435.850
MR2: <i>Mid-Range Capability Ground Support Equipment</i>	-	-	159.698	22.091	-	22.091	-	-	-	-	0.000	181.789
MR3: <i>Mid-Range Capability (MRC) Missiles</i>	-	-	148.116	-	-	-	-	-	-	-	0.000	148.116
MR4: <i>Mid-Range Cap Launcher Payload Deployment System</i>	-	-	96.477	9.468	-	9.468	-	-	-	-	0.000	105.945

Note

Program Element (PE) 0604135A in FY 2024 funds logistics support for First Unit Issue (FUI) and supports the transition from PE 0604135A to PE 0605235A and PE 0204229A.

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) 0604135A funds the effort and continues as the program transitions. PE 0605235A. Five MRC batteries will be developed and fielded; the initial MRC prototype battery will be developed and fielded by RCCTO, and PEO MS will complete the development and fielding of the four remaining MRC batteries. The mission of the MRC Prototype Weapon System is to provide Combatant Commanders with a strategic, ground-mobile, offensive missile capability. The MRC Prototype Weapon System will leverage existing SM-6 and Tomahawk technologies and missiles for ground launch, to provide a responsive, highly accurate, deep strike capability designed to destroy high value, high payoff targets. MRC is optimized for the penetration/dis-integration phase of Multi-Domain Operations (MDO) by defeating enemy Anti-Access / Area Denial (A2/AD) systems allowing the Combatant Commander freedom to maneuver during the exploitation phase.

The MRC Prototype Weapon System leverages Joint Service technologies and integration of common hardware, software, and mutually supporting test events. MRC provides the Launchers and Battery Operations Center (BOC) which enable the capability to fire a mix of missiles capable of flying at various speeds and altitudes for mid-range distances to engage targets. The first MRC Prototype Weapon System deliverable quantity is one residual combat MRC prototype battery consisting of four launchers, BOC, reload support, and the basic load of missiles consisting of eight (8) SM-6 Blk 1A and eight (8) Tomahawk Blk V to be fielded NLT 4Q FY 2023 as the First Unit of Issue (FUI). Delivery of follow-on batteries and additional capabilities by PEO MS will occur annually thereafter.

FY 2024 Base funding in the amount of \$31.559 million funds the logistics support of the first MRC battery, up to one year after First Unit Issue (FUI) Declaration. Logistics Support will include maintenance tasks and troubleshooting, sparing, and reach back for engineering support. Logistics Support will include embedded Field

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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Army	Date: March 2023
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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 0604135A / <i>Strategic Mid-Range Fires</i>
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Service Representatives (FSRs) will provide subject matter expertise for the MRC Prototype Battery on a continuous basis starting at first unit of issue. Base funding allows for logistics support integration efforts to ensure safe and effective operational fielding of the prototype battery.

Project Numbers MR2, MR3, and MR4 are components of the overarching Program Element, PE 0604135A Strategic Mid-Range Fires.

MR2 - Mid-Range Capability Ground Support Equipment

The MRC Ground Support Equipment (GSE) leverages Joint Service technologies and integration of common hardware, software, mutually supporting test events, and logistics support for the GSE. This includes the Battery Operations Center (BOC), prime movers, trailers, generators, cabling, and support vehicles. The MRC BOC houses the federated Command and Control systems which enable the capability to fire a mix of missiles capable of flying at various speeds and altitudes for mid-range distances to engage targets.

MR3 - Mid-Range Capability Missile

Mid Range Capability Missiles. Missiles funding was moved to PE 0204229A / Tomahawk. There is no funding for MR3 - Mid Range Capability Missile in FY 24

MR4 - Mid-Range Capability Launcher Payload Deployment System

The MRC Launcher Payload Deployment System (PDS) leverages Joint Service technologies and integration of common hardware, software, mutually supporting test events, and logistics support for the MRC PDS. The MRC Launcher PDS stows and fires a mix of missiles. The missiles are capable of flying at various speeds and altitudes for mid-range distances to engage desired targets. The MRC Launcher PDS Project delivers four PDSs for each MRC Battery.

B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	0.000	404.291	32.226	-	32.226
Current President's Budget	0.000	404.291	31.559	-	31.559
Total Adjustments	0.000	0.000	-0.667	-	-0.667
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-0.667	-	-0.667

Change Summary Explanation

Decreased funding to support higher Army priorities.

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Army										Date: March 2023		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604135A / <i>Strategic Mid-Range Fires</i>				Project (Number/Name) MR2 / <i>Mid-Range Capability Ground Support Equipment</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
MR2: <i>Mid-Range Capability Ground Support Equipment</i>	-	-	159.698	22.091	-	22.091	-	-	-	-	0.000	181.789
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Program Element (PE) 0604135A in FY 2024 funds logistics support for First Unit Issue (FUI) and supports the transition from PE 0604135A to PE 0605235A and PE 0204229A.

A. Mission Description and Budget Item Justification

The MRC Ground Support Equipment (GSE) leverages Joint Service technologies and integration of common hardware, software, and mutually supporting test events for the GSE. This includes the Battery Operations Center (BOC), prime movers, trailers, generators, cabling, and support vehicles. The MRC BOC houses the federated Command and Control systems which enable the capability to fire a mix of missiles capable of flying at various speeds and altitudes for mid-range distances to engage targets.

The FY 2024 Base Funding in the amount of \$22.091 million funds the logistics support of the first MRC battery, up to one year after First Unit Issued Declaration. Logistics Support will include maintenance tasks and troubleshooting, sparing, and reach back for engineering support. Logistics Support will include embedded Field Service Representatives (FSRs) will provide subject matter expertise for the MRC Prototype Battery on a continuous basis starting at first unit of issue. Base funding allows for logistics support integration efforts to ensure safe and effective operational fielding of the prototype battery.

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

	FY 2022	FY 2023	FY 2024
Title: MR2 - Mid-Range Capability Ground Support Equipment	-	153.869	22.091
Description: The MRC Ground Support Equipment (GSE) leverages Joint Service technologies and integration of common hardware, software, and mutually supporting test events for the GSE. This includes the Battery Operations Center (BOC), prime movers, trailers, generators, cabling, and support vehicles. The MRC BOC houses the federated Command and Control systems.			
Funding the FY 2020, FY 2021, FY 2022 is located in PE 0604644A.			
FY 2023 Plans: The FY 2023 Base funding in the amount of \$159.698 million was moved from PE 0604644A and funds the fabrication, integration of design requirements, and test and evaluation for the MRC Ground Support Equipment (GSE) and MRC BOC to enable completion and fielding of the prototype battery. Base funding allows for integration of design requirements and evaluation of MRC GSE and BOC required characteristics to ensure safe and effective operational fielding of the prototype battery. This funds the Original Equipment Manufacturer's (OEM) effort to purchase hardware and materials and receive Government Furnished			

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: March 2023		
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604135A / <i>Strategic Mid-Range Fires</i>	Project (Number/Name) MR2 / <i>Mid-Range Capability Ground Support Equipment</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
<p>Equipment (GFE) to fabricate the MRC GSE and BOC and to support component-level and system-level qualification for MRC GSE and BOC. Base funding also allows for the System Engineering and Program Management of integration across military branches to include the OEM contractor and Other Government Agencies (OGA) in order to ensure a common MRC GSE. Funding provides for the Government and Contractor coordination required to perform systems engineering for system integration and check out, verify cybersecurity requirements, manage software development, verify transportation requirements, and plan and execute test and evaluation events to support initial fielding. Additional integration efforts include wireless communication, improved mobility, weight reduction, and M-Code implementation. This effort completes the design and fabrication of the initial MRC prototype battery, and continues the fabrication and integration of subsequent prototype battery GSE and BOC in supporting transition to PEO MS. PE 0604644A funding of \$5.016 million was moved to PEO MS PE 0605235A Mid-Range Capability in support of the transition.</p> <p>FY 2024 Plans: The FY 2024 Base Funding in the amount of \$22.091M funds the logistics support of the first MRC battery, up to one year after First Unit Issued Declaration. Logistics Support will include maintenance tasks and troubleshooting, sparing, and reach back for engineering support. Logistics Support will include embedded Field Service Representatives (FSRs) will provide subject matter expertise for the MRC Prototype Battery on a continuous basis starting at first unit of issue. Base funding allows for logistics support integration efforts to ensure safe and effective operational fielding of the prototype battery.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: FY 2024 funding was decreased to only include logistics support for one year after First Unit Issued Declaration.</p>				
<p>Title: FY 2023 SBIR/STTR Transfer</p> <p>Description: Funding transferred in accordance with Title 15 USC 638</p> <p>FY 2023 Plans: Funding transferred in accordance with Title 15 USC 638</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC 638</p>		-	5.829	-
Accomplishments/Planned Programs Subtotals		-	159.698	22.091
C. Other Program Funding Summary (\$ in Millions)				
N/A				

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604135A / <i>Strategic Mid-Range Fires</i>	Project (Number/Name) MR2 / <i>Mid-Range Capability Ground Support Equipment</i>

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

Remarks

Program Element (PE) 0604135A / Strategic Mid-Range Fires (RCCTO) in FY 2024 funds logistics support for First Unit Issue (FUI) and supports the transition from PE 0604135A to PE 0605235A / Strategic Mid-Range Capability (PEO MS) and PE 0204229A / Tomahawk (PEO MS).

D. Acquisition Strategy

The MRC project develops, integrates, produces and sustains MRC specific analysis, design, development, and integration through a RCCTO prototype Other Transaction Authority (pOTA), which was awarded to Lockheed Martin (LM) in November 2020. Additionally, the pOTA has leveraged the Strategic Capabilities Office (SCO), Navy, and US Marine Corps (USMC) investments in weapon system development, since 2016, which are ongoing by providing a body of data including Technical Data Packages (TDP), Critical Design Review (CDR) artifacts, and active production lines. The MRC project leveraged existing contract vehicles to procure supporting items currently in production through a combination of Army and Navy contracts. Using these contracts, the MRC project retains commonality in production, training, logistics, and sustainment with the Navy.

US Army Rapid Capabilities and Critical Technologies Office (RCCTO) Mid-Range Capability (MRC) effort continues as the program transitions to the US Army Program Executive Office Missiles and Space (PEO MS) in FY2024 with the start of PE 0605235A in FY 2023. Five MRC batteries will be developed and fielded; the initial MRC prototype battery will be developed by RCCTO, and the four remaining MRC batteries by PEO MS. Project Number MR2 / Mid-Range Capability Ground Support Equipment is a component of the overarching Program Element, PE 0604135A Strategic Mid-Range Fires.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army **Date:** March 2023

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604135A / <i>Strategic Mid-Range Fires</i>	Project (Number/Name) MR2 / <i>Mid-Range Capability Ground Support Equipment</i>
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Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
System Engineering and Program Management	Various	TBD : Huntsville, AL; National Capitol Region	-	-		9.907	Nov 2022	1.973		-		1.973	0.000	11.880	-
FY 2023 SBIR/STTR Transfer	TBD	Funding transferred in accordance with Title 15 USC 638 : Funding transferred in accordance with Title 15 US	-	-		5.829		-		-		-	0.000	5.829	-
Subtotal			-	-		15.736		1.973		-		1.973	0.000	17.709	N/A

Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Original Equipment Manufacturer (OEM)	SS/CPFF	Lockheed Martin : various	-	-		86.928	Jan 2023	19.265	Oct 2023	-		19.265	0.000	106.193	-
Government Furnished Equipment (GFE)	Various	Various : Various	-	-		23.972	Jan 2023	-		-		-	0.000	23.972	-
Other Government Agencies (OGA)	TBD	various : various	-	-		4.036	Jan 2023	0.853	Jan 2024	-		0.853	0.000	4.889	-
Subtotal			-	-		114.936		20.118		-		20.118	0.000	135.054	N/A

Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Cyber, Software, Transportation	Various	Various : Various	-	-		14.564	Oct 2022	-		-		-	0.000	14.564	-
Subtotal			-	-		14.564		-		-		-	0.000	14.564	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army **Date:** March 2023

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604135A / Strategic Mid-Range Fires	Project (Number/Name) MR2 / Mid-Range Capability Ground Support Equipment
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Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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 and Evaluation	Various	various : Various	-	-		14.462	Jan 2023	-		-		-	0.000	14.462	-
Subtotal			-	-		14.462		-		-		-	0.000	14.462	N/A
Project Cost Totals			-	-		159.698		22.091		-		22.091	0.000	181.789	N/A

Remarks
Program Element (PE) 0604135A / Strategic Mid-Range Fires (RCCTO) in FY 2024 funds logistics support for First Unit Issue (FUI).

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604135A / <i>Strategic Mid-Range Fires</i>	Project (Number/Name) MR2 / <i>Mid-Range Capability Ground Support Equipment</i>

Event Name	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
	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
MRC Ground Support Equipment (GSE) Assembly																												
MRC Battery Operation Center (BOC) Assembly																												
Initial System Integration and Check Out																												
New Materiel in Brief (NMIB)																												
Initial Fielding Prototype																												
Obtain Release to Train																												
Net																												
TRR																												
Obtain Release for Flight Test																												
SM-6 Missile Flight Test																												
Tomahawk Missile Flight Test																												
Subsequent Batteries GSE																												
First Unit of Issue (FUI)																									1			

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Army			Date: March 2023
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604135A / <i>Strategic Mid-Range Fires</i>	Project (Number/Name) MR2 / <i>Mid-Range Capability Ground Support Equipment</i>	

Event Name	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
	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
Logistics Support																												

Note
Program Element (PE) 0604135A / *Strategic Mid-Range Fires* (RCCTO) in FY 2024 funds logistics support for First Unit Issue (FUI).

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604135A / <i>Strategic Mid-Range Fires</i>	Project (Number/Name) MR2 / <i>Mid-Range Capability Ground Support Equipment</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
MRC Ground Support Equipment (GSE) Assembly	1	2022	1	2023
MRC Battery Operation Center (BOC) Assembly	1	2022	1	2023
Initial System Integration and Check Out	3	2022	1	2023
New Materiel in Brief (NMIB)	3	2022	3	2022
Initial Fielding Prototype	1	2023	1	2023
Obtain Release to Train	1	2023	4	2023
Net	2	2023	3	2023
TRR	2	2023	2	2023
Obtain Release for Flight Test	3	2023	3	2023
SM-6 Missile Flight Test	3	2023	3	2023
Tomahawk Missile Flight Test	3	2023	3	2023
Subsequent Batteries GSE	3	2022	4	2023
First Unit of Issue (FUI)	4	2023	4	2023
Logistics Support	1	2024	4	2024

Note

Program Element (PE) 0604135A / *Strategic Mid-Range Fires* (RCCTO) in FY 2024 funds logistics support for First Unit Issue (FUI).

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Army **Date:** March 2023

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604135A / <i>Strategic Mid-Range Fires</i>	Project (Number/Name) MR3 / <i>Mid-Range Capability (MRC) Missiles</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
MR3: <i>Mid-Range Capability (MRC) Missiles</i>	-	-	148.116	-	-	-	-	-	-	-	0.000	148.116
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Program Element (PE) 0604135A in FY 2024 funds logistics support for First Unit Issue (FUI) and supports the transition from PE 0604135A to PE 0605235A and PE 0204229A.

A. Mission Description and Budget Item Justification

MRC buys missiles and associated missile support equipment needed for the operational fielding of the MRC prototype Battery. The missiles are capable of flying at various speeds and altitudes for mid-range distances to engage targets. MRC provides Program Management and Systems Engineering for missile buys. The FY 2023 Base funding in the amount of \$148.116 million was moved from PE 0604644A to PE 0604135A and continues buying missiles in FY 2023. Details at a higher classification.

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

	FY 2022	FY 2023	FY 2024
<p>Title: MR3 - Mid-Range Capability (MRC) Missile</p> <p>Description: MRC missiles and associated missile support equipment buy is needed for operational fielding of the MRC Prototype Battery. The missiles are capable of flying at various speeds and altitudes for mid-range distances to engage targets. MRC provides Government Systems Engineering and Program Management for missile buys.</p> <p>FY 2023 Plans: The FY 2023 Base funding in the amount of \$148.116 million was moved from PE 0604644A to PE 0604135A and continues buying missiles and associated missile support equipment in FY 2023. Details at a higher classification.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: FY2024 decreased due to not buying missiles from this PE. MR3 / Mid-Range Capability Missiles Program Element (PE) 0604135A / Strategic Mid-Range Fires (RCCTO) completes the transition to PEO MS Strategic Mid-Range Capability PE 0204229A for FY 2024 Tomahawk missile procurement.</p>	-	142.710	-
<p>Title: FY 2023 SBIR/STTR Transfer</p> <p>Description: Funding transferred in accordance with Title 15 USC 638</p> <p>FY 2023 Plans:</p>	-	5.406	-

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Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604135A / <i>Strategic Mid-Range Fires</i>	Project (Number/Name) MR3 / <i>Mid-Range Capability (MRC) Missiles</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Funding transferred in accordance with Title 15 USC 638			
<i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> Funding transferred in accordance with Title 15 USC 638			
Accomplishments/Planned Programs Subtotals	-	148.116	-

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

N/A

Remarks

Program Element (PE) 0604135A / Strategic Mid-Range Fires (RCCTO) in FY 2024 funds logistics support for First Unit Issue (FUI) and supports the transition from PE 0604135A to PE 0605235A / Strategic Mid-Range Capability (PEO MS) and PE 0204229A / Tomahawk (PEO MS).

D. Acquisition Strategy

The MRC project develops, integrates, produces and sustains MRC specific analysis, design, development, and integration through a RCCTO prototype. The MRC Weapon System leveraged existing contract vehicles to procure supporting items currently in production through a combination of Army and Navy contracts. Using these contracts, the MRC Prototype Weapon System retains commonality in production, training, logistics, and sustainment with the Navy.

US Army Rapid Capabilities and Critical Technologies Office (RCCTO) Mid-Range Capability (MRC) effort continues as the program transitions to the US Army Program Executive Office Missiles and Space (PEO MS) in FY24 with the start of PE 0605235A in FY 2023. Five MRC batteries will be developed and fielded; the initial MRC prototype battery will be developed by RCCTO, and the four remaining MRC batteries by PEO MS. Project Number MR3 / Mid-Range Capability Missiles is a component of the overarching Program Element, PE 0604135A Strategic Mid-Range Fires.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army **Date:** March 2023

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604135A / <i>Strategic Mid-Range Fires</i>	Project (Number/Name) MR3 / <i>Mid-Range Capability (MRC) Missiles</i>
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Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
System Engineering and Program Management	Various	TBD : Huntsville, AL; National Capitol Region	-	-		0.441	Nov 2022	-		-		-	0.000	0.441	-
FY 2023 SBIR/STTR Transfer	TBD	Funding transferred in accordance with Title 15 USC 638 : Funding transferred in accordance with Title 15 US	-	-		5.406		-		-		-	0.000	5.406	-
Subtotal			-	-		5.847		-		-		-	0.000	5.847	N/A

Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Missiles	Various	TBD : Huntsville, AL; National Capitol Region	-	-		142.269	Dec 2022	-		-		-	0.000	142.269	-
Subtotal			-	-		142.269		-		-		-	0.000	142.269	N/A

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract	
	Project Cost Totals		-	-	148.116	-	-	-	0.000	148.116

Remarks
 Program Element (PE) 0604135A / Strategic Mid-Range Fires (RCCTO) in FY 2024 funds logistics support for First Unit Issue (FUI) and supports the transition from PE 0604135A to PE 0605235A / Strategic Mid-Range Capability (PEO MS) and PE 0204229A / Tomahawk (PEO MS).

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Army **Date:** March 2023

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604135A / <i>Strategic Mid-Range Fires</i>	Project (Number/Name) MR3 / <i>Mid-Range Capability (MRC) Missiles</i>
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Event Name	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
	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
Missile Buy	██████████				██████████																							
SM-6 Missile Flight Test					████																							
Tomahawk Missile Flight Test					████																							
Initial Missile Delivery to Support First Unit Issue (FUI)					████																							
First Unit of Issue (FUI)					████				▲																			
Remaining Missile Delivery					██████████				██████████																			

Note
 Program Element (PE) 0604135A / Strategic Mid-Range Fires (RCCTO) in FY 2024 funds logistics support for First Unit Issue (FUI) and supports the transition from PE 0604135A to PE 0605235A / Strategic Mid-Range Capability (PEO MS) and PE 0204229A / Tomahawk (PEO MS).

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Army **Date:** March 2023

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604135A / <i>Strategic Mid-Range Fires</i>	Project (Number/Name) MR3 / <i>Mid-Range Capability (MRC) Missiles</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Missile Buy	3	2022	4	2023
SM-6 Missile Flight Test	3	2023	3	2023
Tomahawk Missile Flight Test	3	2023	3	2023
Initial Missile Delivery to Support First Unit Issue (FUI)	3	2023	3	2023
First Unit of Issue (FUI)	4	2023	4	2023
Remaining Missile Delivery	4	2023	4	2025

Note

Program Element (PE) 0604135A / Strategic Mid-Range Fires (RCCTO) in FY 2024 funds logistics support for First Unit Issue (FUI) and supports the transition from PE 0604135A to PE 0605235A/Strategic Mid-Range Capability (PEO MS) and PE 0204229A / Tomahawk (PEO MS).

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Army										Date: March 2023		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604135A / <i>Strategic Mid-Range Fires</i>				Project (Number/Name) MR4 / <i>Mid-Range Cap Launcher Payload Deployment System</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
MR4: <i>Mid-Range Cap Launcher Payload Deployment System</i>	-	-	96.477	9.468	-	9.468	-	-	-	-	0.000	105.945
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Program Element (PE) 0604135A in FY 2024 funds logistics support for First Unit Issue (FUI) and supports the transition from PE 0604135A to PE 0605235A and PE 0204229A.

A. Mission Description and Budget Item Justification

The MRC Launcher PDS leverages Joint Service technologies and integration of common hardware, software, and mutually supporting test events for the MRC Payload Deployment System. The MRC Launcher PDS stows and fires a mix of missile types to include SM-6 and Tomahawk. The missiles are capable of flying at various speeds and altitudes for mid-range distances to engage desired targets. The MRC Launcher PDS Project delivers four PDSs for each MRC Battery. Additional missiles may be integrated to the MRC Launcher PDS capability needs.

The FY 2024 Base Funding in the amount of \$9.468 M funds the logistics support of the first MRC battery, up to one year after First Unit Issued Declaration. Logistics Support will include maintenance tasks and troubleshooting, spares, and reach back for engineering support. Logistics Support will include embedded Field Service Representatives (FSRs) will provide subject matter expertise for the MRC Prototype Battery on a continuous basis starting at first unit of issue. Base funding allows for logistics support integration efforts to ensure safe and effective operational fielding of the prototype battery.

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

	FY 2022	FY 2023	FY 2024
Title: MR4 - Mid-Range Capability Launcher Payload Deployment System (PDS)	-	92.956	9.468
Description: The MRC Launcher PDS leverages Joint Service technologies and integration of common hardware, software, and mutually supporting test events for the MRC Launcher PDS. The MRC Launcher PDS stows and fires a mix of missile types to include SM-6 and Tomahawk missiles. The missiles are capable of flying at various speeds and altitudes for mid-range distances to engage desired targets. The MRC Launcher PDS project delivers four PDSs for each MRC Battery. Additional missiles may be integrated to the MRC Launcher PDS to meet capability needs.			
US Army Rapid Capabilities and Critical Technologies Office (RCCTO) Mid-Range Capability (MRC) effort continues as the program transitions to the US Army Program Executive Office Missiles and Space (PEO MS) PE 0605235A in FY2023. Five MRC batteries will be developed and fielded; the initial MRC prototype battery will be developed by RCCTO, and the four remaining MRC batteries by PEO MS.			
FY 2023 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: March 2023		
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604135A / <i>Strategic Mid-Range Fires</i>	Project (Number/Name) MR4 / <i>Mid-Range Cap Launcher Payload Deployment System</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2022	FY 2023	FY 2024
<p>The FY 2023 Base funding in the amount of \$96.477 million was moved from PE 0604644A to PE 0604135A and funds the OEMs effort to obtain materials and sub-assemblies and to fabricate the MRC Launcher. Provides for the continued integration of design requirements and test and evaluation for the four prototype MRC Launcher PDS. This funding supports the additional design, development, and integration of required characteristics to ensure safe and effective operational fielding of the MRC Launcher PDS solution through Technology Insertion Points. Launcher integration ensures that the system is stable during launch and meets transportation requirements. Provides for the Government and Contractor coordination required to plan and execute Test and Evaluation events. Additional integration efforts include improved communications, rapid reloading, improved mobility, weight reduction, and M-Code implementation. Provides Systems Engineering and Government Program Management for the MRC Launcher PDS project. Provides for cyber security, software development, and transportation required to deliver the prototype battery to a combat unit.</p> <p>US Army Rapid Capabilities and Critical Technologies Office (RCCTO) Mid-Range Capability (MRC) effort continues as the program transitions to the US Army Program Executive Office Missiles and Space (PEO MS) PE 0605235A in FY 2023. Four MRC batteries will be developed and fielded; the initial MRC prototype battery will be developed by RCCTO, and the three remaining MRC batteries by PEO MS.</p> <p>FY 2024 Plans: The FY 2024 Base Funding in the amount of \$9.468M funds the logistics support of the first MRC battery, up to one year after First Unit Issued Declaration. Logistics Support will include maintenance tasks and troubleshooting, sparing, and reach back for engineering support. Logistics Support will include embedded Field Service Representatives (FSRs) will provide subject matter expertise for the MRC Prototype Battery on a continuous basis starting at first unit of issue. Base funding allows for logistics support integration efforts to ensure safe and effective operational fielding of the prototype battery</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: FY 2024 funding was decreased to only include logistics support for one year after First Unit Issued Declaration. MR4 / Mid-Range Capability Launcher Payload Deployment System completes transition to PEO MS Strategic Mid-Range Capability PE 0605235A in FY24.</p>				
<p>Title: FY 2023 SBIR/STTR Transfer</p> <p>Description: Funding transferred in accordance with Title 15 USC 638</p> <p>FY 2023 Plans: Funding transferred in accordance with Title 15 USC 638</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement:</p>		-	3.521	-

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604135A / <i>Strategic Mid-Range Fires</i>	Project (Number/Name) MR4 / <i>Mid-Range Cap Launcher Payload Deployment System</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Funding transferred in accordance with Title 15 USC 638			
Accomplishments/Planned Programs Subtotals	-	96.477	9.468

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

N/A

Remarks

Program Element (PE) 0604135A / Strategic Mid-Range Fires (RCCTO) in FY 2024 funds logistics support for First Unit Issue (FUI) and supports the transition from PE 0604135A to PE 0605235A / Strategic Mid-Range Capability (PEO MS) and PE 0204229A / Tomahawk (PEO MS).

D. Acquisition Strategy

The MRC project develops, integrates, produces and sustains MRC specific analysis, design, development, and integration through a RCCTO prototype Other Transaction Authority (pOTA), which was awarded to Lockheed Martin (LM) in November 2020. Additionally, the pOTA has leveraged the Strategic Capabilities Office (SCO), Navy, and US Marine Corps (USMC) investments in weapon system development, since 2016, which are ongoing by providing a body of data including Technical Data Packages (TDP), Critical Design Review (CDR) artifacts, and active production lines. The MRC project leveraged existing contract vehicles to procure supporting items currently in production through a combination of Army and Navy contracts. Using these contracts, the MRC project retains commonality in production, training, logistics, and sustainment with the Navy.

US Army Rapid Capabilities and Critical Technologies Office (RCCTO) Mid-Range Capability (MRC) effort continues as the program transitions to the US Army Program Executive Office Missiles and Space (PEO MS) in FY24 with the start of PE 0605235A in FY 2023. Five MRC batteries will be developed and fielded; the initial MRC prototype battery will be developed by RCCTO, and the four remaining MRC batteries by PEO MS. Project Number MR4 / Mid-Range Capability Launcher Payload Deployment System is a component of the overarching Program Element, PE 0604135A Strategic Mid-Range Fires.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army **Date:** March 2023

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604135A / <i>Strategic Mid-Range Fires</i>	Project (Number/Name) MR4 / <i>Mid-Range Cap Launcher Payload Deployment System</i>
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Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
System Engineering and Program Management (SEPM)	Various	TBD : Huntsville, AL; National Capitol Region	-	-		6.567	Nov 2022	1.268	Oct 2023	-		1.268	0.000	7.835	-
FY 2023 SBIR/STTR Transfer	TBD	Funding transferred in accordance with Title 15 USC 638 : Funding transferred in accordance with Title 15 US	-	-		3.521		-		-		-	0.000	3.521	-
Subtotal			-	-		10.088		1.268		-		1.268	0.000	11.356	N/A

Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Original Equipment Manufacturer (OEM)	SS/CPFF	Lockheed Martin : various	-	-		74.607	Jan 2023	8.200	Jan 2024	-		8.200	0.000	82.807	-
Subtotal			-	-		74.607		8.200		-		8.200	0.000	82.807	N/A

Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
Cyber, Software, Transportation	Various	Various : Various	-	-		6.491	Oct 2022	-		-		-	0.000	6.491	-
Subtotal			-	-		6.491		-		-		-	0.000	6.491	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army **Date:** March 2023

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604135A / <i>Strategic Mid-Range Fires</i>	Project (Number/Name) MR4 / <i>Mid-Range Cap Launcher Payload Deployment System</i>
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Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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 and Evaluation	Various	various : Various	-	-		5.291	Jan 2023	-		-		-	0.000	5.291	-
Subtotal			-	-		5.291		-		-		-	0.000	5.291	N/A
Project Cost Totals			-	-		96.477		9.468		-		9.468	0.000	105.945	N/A

Remarks
 Program Element (PE) 0604135A / Strategic Mid-Range Fires (RCCTO) in FY 2024 funds logistics support for First Unit Issue (FUI) and supports the transition from PE 0604135A to PE 0605235A / Strategic Mid-Range Capability (PEO MS) and PE 0204229A / Tomahawk (PEO MS).

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604135A / <i>Strategic Mid-Range Fires</i>	Project (Number/Name) MR4 / <i>Mid-Range Cap Launcher Payload Deployment System</i>

Event Name	FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
	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
MRC Launcher Payload Deployment System (PDS) Assembly	█																											
Initial System Integration and Check Out					█																							
New Materiel in Brief (NMIB)					█																							
Initial Fielding Prototype					█																							
Obtain Release to Train					█																							
Net					█																							
TRR					█																							
Obtain Release for Flight Test					█																							
SM-6 Missile Flight Test					█																							
Tomahawk Missile Flight Test					█																							
Subsequent Batteries Launcher PDS	█				█																							
First Unit of Issue (FUI)									▲																			
CLS									█																			

Note
 Program Element (PE) 0604135A / Strategic Mid-Range Fires (RCCTO) in FY 2024 funds logistics support for First Unit Issue (FUI) and supports the transition from PE 0604135A to PE 0605235A / Strategic Mid-Range Capability (PEO MS) and PE 0204229A / Tomahawk (PEO MS).

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604135A / <i>Strategic Mid-Range Fires</i>	Project (Number/Name) MR4 / <i>Mid-Range Cap Launcher Payload Deployment System</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
MRC Launcher Payload Deployment System (PDS) Assembly	1	2022	1	2023
Initial System Integration and Check Out	3	2022	1	2023
New Materiel in Brief (NMIB)	3	2022	3	2022
Initial Fielding Prototype	1	2023	1	2023
Obtain Release to Train	1	2023	4	2023
Net	2	2023	3	2023
TRR	2	2023	2	2023
Obtain Release for Flight Test	3	2023	3	2023
SM-6 Missile Flight Test	3	2023	3	2023
Tomahawk Missile Flight Test	3	2023	3	2023
Subsequent Batteries Launcher PDS	3	2022	4	2023
First Unit of Issue (FUI)	4	2023	4	2023
CLS	1	2024	4	2024

Note
 Program Element (PE) 0604135A / Strategic Mid-Range Fires (RCCTO) in FY 2024 funds logistics support for First Unit Issue (FUI) and supports the transition from PE 0604135A to PE 0605235A / Strategic Mid-Range Capability (PEO MS) and PE 0204229A / Tomahawk (PEO MS).