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

<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</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	-	-	-	404.291	-	404.291	32.226	0.000	0.000	0.000	0.000	436.517
MR2: <i>Mid-Range Capability Ground Support Equipment</i>	-	-	-	159.698	-	159.698	22.558	-	-	-	0.000	182.256
MR3: <i>Mid-Range Capability (MRC) Missiles</i>	-	-	-	148.116	-	148.116	-	-	-	-	0.000	148.116
MR4: <i>Mid-Range Cap Launcher Payload Deployment System</i>	-	-	-	96.477	-	96.477	9.668	-	-	-	0.000	106.145

**Note**

The Program Element (PE) 0604644A / Mobile Medium Range Missile (RCCTO) was moved from PE 0604644A to PE 0604135A / Strategic Mid-Range Fires (RCCTO) and PE 0605235A / Mid-Range Capability (PEO M&S) in FY 2023.

**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) 0604644A / Mobile Medium Range Missile (RCCTO) was moved from PE 0604644A to PE 0604135A / Strategic Mid-Range Fires (RCCTO) and PE 0605235A / Mid-Range Capability (PEO M&S) in FY 2023. This funds the US Army Rapid Capabilities and Critical Technologies Office (RCCTO) Mid-Range Capability (MRC) effort and continues as the program transitions to the US Army Program Executive Office Missiles and Space (PEO M&S) PE 0605235A. 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 M&S. 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 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 and one BOC, to be fielded NLT 4Q FY 2023 as the First Unit of Issue (FUI). Delivery of follow-on batteries will occur annually thereafter.

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</i>	
<p>FY 2023 Base funding in the amount of \$404.291 million to was moved from PE 0604644A to PE 0604135A and funds the integration of design requirements to complete and field the prototype battery, and to support fabrication of subsequent prototype batteries. Base funding allows for integration and evaluation of required characteristics to ensure safe and effective operational fielding of the prototype battery. Base funding also allows for purchasing and receiving hardware and materials to implement prototype fabrication, and to support component-level and system-level qualification. The \$5.016 million was moved from RCCTO PE 0604644A to PEO M&amp;S PE 0605235A in support of the transition from RCCTO to PEO M&amp;S.</p> <p>PE 0604644A Mobile Medium Range Missile Project MR1 Mobile Intermediate Range Missile was moved to PE 0604135A Strategic Mid-Range Fires in FY 2023 and split into the following 3 Projects:</p> <p>MR2 - Mid-Range Capability Ground Support Equipment 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.</p> <p>MR3 - Mid-Range Capability Missile MRC funds 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 Government Systems Engineering and Program Management for missile buys.</p> <p>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, and mutually supporting test events for the MRC PDS. The MRC Launcher PDS stows and fires 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.</p>		

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2023 Army	<b>Date:</b> April 2022
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<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</i>
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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	404.291	-	404.291
Total Adjustments	0.000	0.000	404.291	-	404.291
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	404.291	-	404.291

**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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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Army										<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 2040 / 4					<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</i>				<b>Project (Number/Name)</b> MR2 / <i>Mid-Range Capability Ground Support Equipment</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
MR2: <i>Mid-Range Capability Ground Support Equipment</i>	-	-	-	159.698	-	159.698	22.558	-	-	-	0.000	182.256
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

The Program Element (PE) 0604644A / Mobile Medium Range Missile (RCCTO) was moved from PE 0604644A to PE 0604135A / Strategic Mid-Range Fires (RCCTO) and PE 0605235A / Mid-Range Capability (PEO M&S) in FY 2023.

**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 2023 Base funding in the amount of \$159.698 million was moved from PE 0604644A to PE 0604135A 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 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 integration efforts, verify cybersecurity requirements, manage software development, verify transportation requirements, and plan and execution of test and evaluation events to support initial fielding. 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 batteries in support to transition to PEO M&S. PE 0604644A funded \$5.016 million that was moved to PEO M&S PE 0605235A in support of the transition from RCCTO to PEO M&S.

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

	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<b>Title:</b> MR2 - Mid-Range Capability Ground Support Equipment	-	-	159.698
<b>Description:</b> 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.			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Army		<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</i>	<b>Project (Number/Name)</b> MR2 / <i>Mid-Range Capability Ground Support Equipment</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
Funding the FY 2020, FY 2021, FY 2022 is located in PE 0604644A.				
<p><b><i>FY 2023 Plans:</i></b> 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 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 M&amp;S. PE 0604644A funding of \$5.016 million was moved to PEO M&amp;S PE 0605235A Mid-Range Capability in support of the transition.</p> <p><b><i>FY 2022 to FY 2023 Increase/Decrease Statement:</i></b> An increase in funding is required from FY 2022 (PE 0604644A) to FY 2023 (PE 0604135A) to complete system integration and fielding of GSE and BOC for the initial MRC prototype battery, execute test and evaluation of GSE and BOC for the initial MRC prototype battery, while initiating hardware procurement and fabrication of GSE and BOC in support of the transition to the PEO M&amp;S (PE 0605235A) for subsequent prototype batteries in support of the transition to PEO M&amp;S. FY 2022 for MRC GSE (MR2) was funded under Program Element (PE) 0604644A / Mobile Medium Range Missile and moved to PE 0604135A / Strategic Mid-Range Fires in FY 2023. PE 0604644A funding of \$5.016 million was moved to PEO M&amp;S PE 0605235A Mid-Range Capability in support of the transition.</p>				
<b>Accomplishments/Planned Programs Subtotals</b>		-	-	159.698
<b>C. Other Program Funding Summary (\$ in Millions)</b>				
N/A				

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</i>	<b>Project (Number/Name)</b> MR2 / <i>Mid-Range Capability Ground Support Equipment</i>

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

**Remarks**

The Program Element (PE) 0604644A / Mobile Medium Range Missile (RCCTO) was moved from PE 0604644A to PE 0604135A / Strategic Mid-Range Fires (RCCTO) and PE 0605235A / Mid-Range Capability (PEO M&S) in FY 2023.

**D. Acquisition Strategy**

The MRC project will develop, integrate, and produce 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 will leverage the Strategic Capabilities Office (SCO), Navy, and US Marine Corps (USMC) investments in weapon system development since 2016 by providing a body of data including Technical Data Packages (TDP), Critical Design Review (CDR) artifacts, and active production lines. The MRC project will leverage 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 SCO and 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 M&S) APE 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 M&S.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army												Date: April 2022			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 4				PE 0604135A / Strategic Mid-Range Fires				MR2 / Mid-Range Capability Ground Support Equipment							
<b>Management Services (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
System Engineering and Program Management	Various	TBD : Huntsville, AL; National Capitol Region	-	-		-		9.907		-		9.907	0.000	9.907	-
<b>Subtotal</b>			-	-	-		9.907		-		9.907	0.000	9.907	N/A	
<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Original Equipment Manufacturer (OEM)	SS/CPFF	Lockheed Martin : various	-	-		-		86.928		-		86.928	0.000	86.928	-
Government Furnished Equipment (GFE)	Various	Various : Various	-	-		-		23.972		-		23.972	0.000	23.972	-
Other Government Agencies (OGA)	TBD	various : various	-	-		-		4.036		-		4.036	0.000	4.036	-
<b>Subtotal</b>			-	-	-		114.936		-		114.936	0.000	114.936	N/A	
<b>Support (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Cyber, Software, Transportation	Various	Various : Various	-	-		-		14.564		-		14.564	0.000	14.564	-
<b>Subtotal</b>			-	-	-		14.564		-		14.564	0.000	14.564	N/A	
<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	Various	various : Various	-	-		-		20.291		-		20.291	0.000	20.291	-
<b>Subtotal</b>			-	-	-		20.291		-		20.291	0.000	20.291	N/A	

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2023 Army</b>							<b>Date: April 2022</b>				
<b>Appropriation/Budget Activity</b> 2040 / 4			<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</i>				<b>Project (Number/Name)</b> MR2 / <i>Mid-Range Capability Ground Support Equipment</i>				
	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>		
<b>Project Cost Totals</b>	-	-	-	159.698	-	159.698	0.000	159.698	N/A		

**Remarks**  
 The Program Element (PE) 0604644A / Mobile Medium Range Missile (RCCTO) was moved from PE 0604644A to PE 0604135A / Strategic Mid-Range Fires (RCCTO) and PE 0605235A / Mid-Range Capability (PEO M&S) in FY 2023.

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2023 Army</b>		<b>Date: April 2022</b>
<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</i>	<b>Project (Number/Name)</b> MR2 / <i>Mid-Range Capability Ground Support Equipment</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
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 to Field Prototype													████															
SM-6 Missile Test													████															
Tomahawk Missile Test													████															
Subsequent Batteries GSE									██████████				██████████				██████████											
First Unit of Issue (FUI)																	▲											

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</i>	<b>Project (Number/Name)</b> MR2 / <i>Mid-Range Capability Ground Support Equipment</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
CLS																												

**Note**  
 The Program Element (PE) 0604644A / Mobile Medium Range Missile (RCCTO) was moved from PE 0604644A to PE 0604135A / Strategic Mid-Range Fires (RCCTO) and PE 0605235A / Mid-Range Capability (PEO M&S) in FY 2023.

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</i>	<b>Project (Number/Name)</b> 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 to Field Prototype	3	2023	3	2023
SM-6 Missile Test	3	2023	3	2023
Tomahawk Missile Test	3	2023	3	2023
Subsequent Batteries GSE	3	2022	4	2023
First Unit of Issue (FUI)	4	2023	4	2023
CLS	1	2024	4	2024

**Note**

The Program Element (PE) 0604644A / Mobile Medium Range Missile (RCCTO) was moved from PE 0604644A to PE 0604135A / Strategic Mid-Range Fires (RCCTO) and PE 0605235A / Mid-Range Capability (PEO M&S) in FY 2023.

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

<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</i>	<b>Project (Number/Name)</b> MR3 / <i>Mid-Range Capability (MRC) Missiles</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
MR3: <i>Mid-Range Capability (MRC) Missiles</i>	-	-	-	148.116	-	148.116	-	-	-	-	0.000	148.116
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

The Program Element (PE) 0604644A / Mobile Medium Range Missile (RCCTO) was moved from PE 0604644A to PE 0604135A / Strategic Mid-Range Fires (RCCTO) and PE 0605235A / Mid-Range Capability (PEO M&S) in FY 2023.

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

MRC funds 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 2021	FY 2022	FY 2023
<b>Title:</b> MR3 - Mid-Range Capability (MRC) Missile	-	-	148.116
<b>Description:</b> 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.			
<b>FY 2023 Plans:</b> 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.			
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> An increase in funding is required from FY 2022 (PE 0604644A) to FY 2023 (PE 0604135A) to purchase more missiles in different quantities. FY 2022 for MRC Missiles (MR3) was funded under Program Element (PE) 0604644A / Mobile Medium Range Missile and moved from PE 0604644A to PE 0604135A / Strategic Mid-Range Fires in FY 2023.			
<b>Accomplishments/Planned Programs Subtotals</b>	-	-	148.116

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

N/A

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Army	<b>Date:</b> April 2022
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<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</i>	<b>Project (Number/Name)</b> MR3 / <i>Mid-Range Capability (MRC) Missiles</i>
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**C. Other Program Funding Summary (\$ in Millions)**

**Remarks**

The Program Element (PE) 0604644A / Mobile Medium Range Missile (RCCTO) was moved from PE 0604644A to PE 0604135A / Strategic Mid-Range Fires (RCCTO) and PE 0605235A / Mid-Range Capability (PEO M&S) in FY 2023.

**D. Acquisition Strategy**

The MRC project will develop, integrate, and produce MRC specific analysis, design, development, and integration through a RCCTO prototype. The MRC Weapon System will leverage 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 SCO and 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 M&S) 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 M&S.

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

<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</i>	<b>Project (Number/Name)</b> MR3 / <i>Mid-Range Capability (MRC) Missiles</i>
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<b>Management Services (\$ in Millions)</b>				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			
System Engineering and Program Management	Various	TBD : Huntsville, AL; National Capitol Region	-	-		-		0.441		-		0.441	0.000	0.441	-
<b>Subtotal</b>			-	-		-		0.441		-		0.441	0.000	0.441	N/A

<b>Product Development (\$ in Millions)</b>				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			
Missiles	Various	TBD : Huntsville, AL; National Capitol Region	-	-		-		147.675		-		147.675	0.000	147.675	-
<b>Subtotal</b>			-	-		-		147.675		-		147.675	0.000	147.675	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
<b>Project Cost Totals</b>	-	-	-	148.116	-	148.116	0.000	148.116	N/A

**Remarks**  
 The Program Element (PE) 0604644A / Mobile Medium Range Missile (RCCTO) was moved from PE 0604644A to PE 0604135A / Strategic Mid-Range Fires (RCCTO) and PE 0605235A / Mid-Range Capability (PEO M&S) in FY 2023.

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

<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</i>	<b>Project (Number/Name)</b> MR3 / <i>Mid-Range Capability (MRC) Missiles</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				
Missile Buy																																
SM-6 Missile Test																																
Tomahawk Missile Test																																
First Unit of Issue (FUI)																																
Missile Delivery																																

**Note**  
The Program Element (PE) 0604644A / Mobile Medium Range Missile (RCCTO) was moved from PE 0604644A to PE 0604135A / Strategic Mid-Range Fires (RCCTO) and PE 0605235A / Mid-Range Capability (PEO M&S) in FY 2023.

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

<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</i>	<b>Project (Number/Name)</b> 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 Test	3	2023	3	2023
Tomahawk Missile Test	3	2023	3	2023
First Unit of Issue (FUI)	4	2023	4	2023
Missile Delivery	3	2025	3	2025

**Note**  
 The Program Element (PE) 0604644A / Mobile Medium Range Missile (RCCTO) was moved from PE 0604644A to PE 0604135A / Strategic Mid-Range Fires (RCCTO) and PE 0605235A / Mid-Range Capability (PEO M&S) in FY 2023.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Army										<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 2040 / 4					<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</i>				<b>Project (Number/Name)</b> MR4 / <i>Mid-Range Cap Launcher Payload Deployment System</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
MR4: <i>Mid-Range Cap Launcher Payload Deployment System</i>	-	-	-	96.477	-	96.477	9.668	-	-	-	0.000	106.145
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

The Program Element (PE) 0604644A / Mobile Medium Range Missile (RCCTO) was moved from PE 0604644A to PE 0604135A / Strategic Mid-Range Fires (RCCTO) and PE 0605235A / Mid-Range Capability (PEO M&S) in FY 2023.

**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 missiles 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 2023 Base funding in the amount of \$96.477 million was moved from PE 0604644A / Mobile Medium Range Missiles to PE 0604135A / Strategic Mid-Range Fires and funds the fabrication, integration of design requirements, and test and evaluation for the initial four prototype MRC Launcher PDS. The FY 2023 base funding also provides for the OEMs effort to obtain materials and sub-assemblies and to fabricate the MRC Launcher Payload Deployment System for subsequent prototype batteries in support to transition to PEO M&S. This provides for 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 and support 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 for cyber security, software development, and transportation required to deliver the prototype battery.

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

	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<b>Title:</b> MR4 - Mid-Range Capability Launcher Payload Deployment System (PDS)	-	-	96.477
<b>Description:</b> 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 missiles 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.			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Army		<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</i>	<b>Project (Number/Name)</b> MR4 / <i>Mid-Range Cap Launcher Payload Deployment System</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<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 M&amp;S) PE 0650235A in FY2023. 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 M&amp;S.</p> <p><b>FY 2023 Plans:</b> 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 M&amp;S) 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 M&amp;S.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> An increase in funding is required from FY2022 (PE 0604644A) to FY2023 (PE 0604135A) to complete system integration and fielding of the Launcher PDS for the initial MRC prototype battery, execute test and evaluation of the Launcher PDS for the initial MRC prototype battery, while initiating hardware procurement and fabrication of the MRC Launcher PDS in support of the transition to PEO M&amp;S (PE 0605235A) for subsequent prototype batteries. FY 2022 for MRC Launcher PDS (MR4) was funded under Program Element (PE) 0604644A / Mobile Medium Range Missile and moved from PE0604644A to PE 0604135A / Strategic Mid-Range Fires in FY 2023.</p>				
<b>Accomplishments/Planned Programs Subtotals</b>		-	-	96.477
<b>C. Other Program Funding Summary (\$ in Millions)</b>				
N/A				

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</i>	<b>Project (Number/Name)</b> MR4 / <i>Mid-Range Cap Launcher Payload Deployment System</i>

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

**Remarks**

The Program Element (PE) 0604644A / Mobile Medium Range Missile (RCCTO) was moved from PE 0604644A to PE 0604135A / Strategic Mid-Range Fires (RCCTO) and PE 0605235A / Mid-Range Capability (PEO M&S) in FY 2023.

**D. Acquisition Strategy**

The MRC project will develop, integrate, and produce 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 will leverage the Strategic Capabilities Office (SCO), Navy, and US Marine Corps (USMC) investments in weapon system development since 2016 by providing a body of data including Technical Data Packages (TDP), Critical Design Review (CDR) artifacts, and active production lines. The MRC project will leverage 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 SCO and 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 M&S) 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 M&S.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army												Date: April 2022			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 4				PE 0604135A / Strategic Mid-Range Fires				MR4 / Mid-Range Cap Launcher Payload Deployment System							
Management Services (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
System Engineering and Program Management (SEPM)	Various	TBD : Huntsville, AL; National Capitol Region	-	-		-		6.567		-		6.567	0.000	6.567	-
<b>Subtotal</b>			-	-		-		6.567		-		6.567	0.000	6.567	N/A
Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Original Equipment Manufacturer (OEM)	SS/CPFF	Lockheed Martin : various	-	-		-		74.607		-		74.607	0.000	74.607	-
<b>Subtotal</b>			-	-		-		74.607		-		74.607	0.000	74.607	N/A
Support (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Cyber, Software, Transportation	Various	Various : Various	-	-		-		6.491		-		6.491	0.000	6.491	-
<b>Subtotal</b>			-	-		-		6.491		-		6.491	0.000	6.491	N/A
Test and Evaluation (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	Various	various : Various	-	-		-		8.812		-		8.812	0.000	8.812	-
<b>Subtotal</b>			-	-		-		8.812		-		8.812	0.000	8.812	N/A

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2023 Army</b>								<b>Date: April 2022</b>			
<b>Appropriation/Budget Activity</b> 2040 / 4				<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</i>				<b>Project (Number/Name)</b> MR4 / <i>Mid-Range Cap Launcher Payload Deployment System</i>			
	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>		
<b>Project Cost Totals</b>	-	-	-	96.477	-	96.477	0.000	96.477	N/A		

**Remarks**  
 The Program Element (PE) 0604644A / Mobile Medium Range Missile (RCCTO) was moved from PE 0604644A to PE 0604135A / Strategic Mid-Range Fires (RCCTO) and PE 0605235A / Mid-Range Capability (PEO M&S) in FY 2023.

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2023 Army</b>		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</i>	<b>Project (Number/Name)</b> MR4 / <i>Mid-Range Cap Launcher Payload Deployment System</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
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 to Field Prototype													████															
SM-6 Missile Test													████															
Tomahawk Missile Test													████████████████															
Subsequent Batteries Launcher PDS									████████████████				████████████████															
First Unit of Issue (FUI)																	▲											
CLS																	████████████████											

**Note**  
 The Program Element (PE) 0604644A / Mobile Medium Range Missile (RCCTO) was moved from PE 0604644A to PE 0604135A / Strategic Mid-Range Fires (RCCTO) and PE 0605235A / Mid-Range Capability (PEO M&S) in FY 2023.

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Army		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0604135A / <i>Strategic Mid-Range Fires</i>	<b>Project (Number/Name)</b> 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 to Field Prototype	3	2023	3	2023
SM-6 Missile Test	3	2023	3	2023
Tomahawk Missile Test	1	2023	4	2023
Subsequent Batteries Launcher PDS	3	2022	4	2023
First Unit of Issue (FUI)	4	2023	4	2023
CLS	1	2024	4	2024

**Note**

The Program Element (PE) 0604644A / Mobile Medium Range Missile (RCCTO) was moved from PE 0604644A to PE 0604135A / Strategic Mid-Range Fires (RCCTO) and PE 0605235A / Mid-Range Capability (PEO M&S) in FY 2023.