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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2022 Army **Date:** May 2021

<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605231A / <i>Precision Strike Missile (PrSM)</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	-	-	-	188.452	-	188.452	-	-	-	-	-	-
CO3: <i>Precision Strike Missile (PrSM)</i>	-	-	-	188.452	-	188.452	-	-	-	-	-	-

**Note**

Starting in Fiscal Year (FY) 2022 all funds for this program were restructured from PE 0607134A to PE 0605231A.. PE 0605231A is a continuation of the existing PrSM program.

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

Precision Strike Missile (PrSM) is the Army's next generation surface-to-surface missile that replaces and improves upon Army Tactical Missile System (ATACMS) capabilities. The mission of the PrSM System is to attack/ neutralize/suppress/destroy targets using missile delivered indirect precision fires. PrSM will provide Joint Force Commanders with a 24/7, all-weather capability to attack critical and time sensitive area and point targets including threat air defense, missile launchers, command and control centers, assembly/staging areas and high payoff targets at all depths of the multi-domain battlefield. PrSM will counter the enemy's ability to conduct combat maneuver and air defense operations.

PrSM requirements include: max range of greater than 400 kilometers (km), specified lethality against the designated target set, a Launch Pod Missile Container (LPMC) that holds two missiles, survivability in a threat environment, and compatibility with the existing launcher platforms (M270A2 Multiple Launch Rocket System (MLRS) and M142 High Mobility Artillery Rocket System (HIMARS)). PrSM will meet cluster and insensitive munition requirements and is being designed with an open system architecture that provides the capability for future growth to counter new and emerging threats. Increment 2 of PrSM will include the ability to attack mobile or relocatable ground and maritime targets. Future PrSM increments will provide increased lethality against hardened targets and extend range capability to 650km.

FY 2022 base dollars in the amount of \$188.452 million supports the continuation of PrSM Increment 1 Engineering and Manufacturing Development (EMD) and efforts toward Increment 2. Increment 1 EMD activities in FY 2022 include system level ground and safety testing, Government launcher software integration, model and simulation verification and validation and missile system build up in support of FY 2023 Production Qualification flight testing. Increment 2 activities involve coordinating with seeker developer to finalize prototype design ahead of 4QFY22 Preliminary Design Review and ordering of materials for initial system integration. The prime contractor will continue integration studies and refactoring efforts to package the final Land-Based Anti-Ship Missile (LBASM) seeker solution into the PrSM missile prior to system level prototype flight testing.

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2022 Army	<b>Date:</b> May 2021
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<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605231A / <i>Precision Strike Missile (PrSM)</i>
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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	188.452	-	188.452
Total Adjustments	0.000	0.000	188.452	-	188.452
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	188.452	-	188.452

**Change Summary Explanation**

Starting in Fiscal Year (FY) 2022 all funds for this program were restructured from PE 0607134A to PE 0605231A.. PE 0605231A is a continuation of the existing PrSM program.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Army										<b>Date:</b> May 2021		
<b>Appropriation/Budget Activity</b> 2040 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0605231A / Precision Strike Missile (PrSM)				<b>Project (Number/Name)</b> CO3 / Precision Strike Missile (PrSM)			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
CO3: Precision Strike Missile (PrSM)	-	-	-	188.452	-	188.452	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

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

	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<b>Title:</b> Engineering and Manufacturing Development (EMD)	-	-	132.347
<b>Description:</b> EMD activities to develop the Army's next generation missile capability that doubles volume of fire, meets range requirements by exceeding 400km, provides required lethality for both point and area targets, ensures survivability, meets cluster			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Army		<b>Date:</b> May 2021		
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605231A / <i>Precision Strike Missile (PrSM)</i>	<b>Project (Number/Name)</b> CO3 / <i>Precision Strike Missile (PrSM)</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<p>munition policy requirements, and provides an open system architecture. PrSM provides field artillery units with a deep-strike capability while supporting Brigade, Division, Corps, Army, Theater, Joint and Coalition forces in full, limited or expeditionary operations.</p> <p><b>FY 2022 Plans:</b> Continue EMD efforts awarded in FY 2021. Subsequent to receipt of hardware items procured in FY 2021 for system level qualification the contractor will build test articles for delivery to the Government to conduct system level ground and safety production qualification testing. Examples of this hardware include type D (electronic) missiles with mass simulant energetics and type B (energetic) missiles with simulant electronics. The Type D missiles will support Electromagnetic Interference testing and the Type B missile will support insensitive munition (Fast Cook-off and Sympathetic Detonation), 40ft drop, and Explosive Disposal safety testing. Assembly of (14) flight test articles to include installation of flight termination system in support of FY 2023 Production Qualification flight tests. Procurement of tactical representative targets in support of FY 2023 Production Qualification Test (PQT) testing. Finalize integration of Government missile/ launcher fire control system software and hardware interfaces utilizing an Engineering Release of Advanced Field Artillery Tactical Data System (AFATDS) to assess ballistic algorithms and world-wide conditions in preparation for FY 2023 HIMARS Software Integration Testing (SIT), Limited User Test (LUT), and EOC fielding. Continued Government Survivability testing and analysis to ensure that missile capabilities remain survivable against emerging threat systems.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Funding increase due to funding that was restructured from PE 0607134A to PE 0605231A.</p>				
<p><b>Title:</b> Increment 2</p> <p><b>Description:</b> Activities to integrate Land-Based Anti-Ship Missile (LBASM) Science and Technology (S&amp;T) efforts into PrSM Increment 1 will result in an Increment 2 missile.</p> <p><b>FY 2022 Plans:</b> FY 2022 funding supports purchasing RF/Infrared Labor/lab assets and hardware from the LBASM seeker developer, Combat Capabilities Development Command (CCDC), to facilitate Increment 2 Prototype flight testing activities in FY 2024. Begin development and integration activities with prime contractor to refactor the LBASM seeker technology into the PrSM missile. Coordinate with stakeholders to identify test and target requirements, range availability, lethality studies. Establish model and simulation algorithms to reduce test costs.</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b></p>		-	-	56.105

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
FY 2022 funding represents an increase in Increment 2 efforts due to additional program development and integration activities to integrate the LBASM seeker into the baseline, Increment 1 PrSM missile.			
<b>Accomplishments/Planned Programs Subtotals</b>	-	-	188.452

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• 0607134A: <i>Long Range Precision Fires (LRPF)</i>	149.455	100.146	-	-	-	-	-	-	-	-	-
• C29600: <i>PRECISION STRIKE MISSILE (PRSM)</i>	-	49.941	166.130	-	166.130	-	-	-	-	-	-

**Remarks**

**D. Acquisition Strategy**

PrSM follows the Major Capability Acquisition pathway. A 6 NOV 2013 Materiel Development Decision Acquisition Decision Memorandum designated PrSM as a Pre-Major Defense Acquisition Program. An AoA supporting the MS A decision was completed by U.S. Army Training and Doctrine Command (TRADOC) Analysis Center White Sands Missile Range (TRAC-WSMR), with an Office of the Secretary of Defense (OSD) letter of sufficiency issued in September 2015. In 4Q FY 2016, the Army awarded 9 month risk reduction, trade study and initial design development agreements to two contractors. The effort resulted in development of initial baseline designs presented during final technical reviews that resulted in a seamless transition into the TMRR phase. Subsequent to MS A, on 31 March 2017, the Army awarded competitive Other Transaction Agreements to two contractors with planned down-select following the conclusion of system level prototype flight testing in FY 2020.

In FY 2018, the Army in response to immediate near-peer threats and the requirement to engage targets with a precision guided missile at ranges beyond 400km the Army directed acceleration of PrSM Early Operational Capability (EOC) with planned fielding in FY 2023. The PrSM acquisition approach was updated to include follow on competitive TMRR effort, Enhanced TMRR (E-TMRR). A successful system level prototype flight test was the entry criteria for award of the E-TMRR agreement.

In FY 2019 both contractors completed a Preliminary Design Review (PDR), conducted component level Design Verification Testing (DVT) on PrSM sub-assemblies prior to system level prototype flight tests. During DVT, one PrSM contractor experienced a catastrophic rocket motor failure.

In FY 2020 The Army decided not to fund the contractor's additional cost growth and the contractor chose not to fund internally. The period of performance expired on this effort in March 20, 2020 leaving only one contractor to continue development activities. The remaining contractor conducted prototype flights in 1-3QFY2020 and was solely awarded E-TMRR on 12 JUN 2020 through MAR 2022 (2QFY 2022).

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2022 Army		<b>Date:</b> May 2021
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605231A / <i>Precision Strike Missile (PrSM)</i>	<b>Project (Number/Name)</b> CO3 / <i>Precision Strike Missile (PrSM)</i>
<p>PrSM acquisition approach is incremental. The modular systems Improvements will occur via technology insertions that increase the capabilities of the base missile. Increment 2 will transition from S&amp;T to the Program Office after the design has been fully integrated into the PrSM Increment 1 form factor and upon successful completion of initial flight testing. During E-TMRR the contractor will finalize tactical designs, build additional missiles for system level EDT flight tests, begin subsystem qualification, and establish a production capability for EOC missiles. These risk reduction activities inform Milestone B decision and transition to EMD. EMD Phase begins 4Q FY 2021 following the MS B approval. The EMD phase will include assembly of PQT flight test articles in parallel with completion of ground and system qualification, tactical software integration on the HIMARS and M270A2 launchers and production planning efforts. Also, the program will refine critical missile survivability assessments to ensure the selected EMD design will successfully meet PrSM's kinetic, electro-magnetic spectrum, cyber, environmental, nuclear requirements. On 3 FEB 2021 Army Futures Command, Commanding General signed a Directed Requirement for initial quantities of PrSM EOC. FY21-24 MIPA funds will initially support an EOC and then transition to Full Rate Production and achieve Initial Operational Capability in FY 2025. EOC production begins in FY 2021 with fielding occurring in FY 2023.</p> <p>PrSM program will develop nascent capability and support Army demonstration and test initiatives to increase integrated offensive and defensive capability across warfighter functions and multiple domains. Development, integration, and testing of PrSM systems solutions, including test planning to support an annual PEO MS-led Multi-Domain Operations test/demonstration event beginning in FY23, to include biennial Survivability Resiliency/Cyber-Electromagnetic Activities exercises with an event planned in FY22.</p>		

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army** **Date:** May 2021

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605231A / Precision Strike Missile (PrSM)	<b>Project (Number/Name)</b> CO3 / Precision Strike Missile (PrSM)
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<b>Management Services (\$ in Millions)</b>				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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 Program Management	MIPR	Various : RSA, AL	-	-		-		5.442	Apr 2022	-		5.442	0.000	5.442	-
<b>Subtotal</b>			-	-		-		5.442		-		5.442	0.000	5.442	N/A

**Remarks**  
 RSA - Redstone Arsenal, Alabama

In FY 2022, funding in the amount of \$1.675 million for manpower was realigned to Operations and Maintenance. Program support costs have been accurately updated to reflect the realignments.

<b>Product Development (\$ in Millions)</b>				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
PrSM Increment 1 EMD - 1 Vendor (Lockheed Martin)	SS/FPIS	LMMFCS : Grand Prairie, TX	-	-		-		114.068	Jan 2022	-		114.068	0.000	114.068	-
PrSM Increment 2 - 1 Vendor (Lockheed Martin)	SS/CPIF	LMMFCS : Grand Prairie, TX	-	-		-		27.703	Oct 2021	-		27.703	0.000	27.703	-
PrSM Increment 2 Seeker Development	MIPR	CCDC AvMC : RSA, AL	-	-		-		22.134	Dec 2021	-		22.134	0.000	22.134	-
Development Engineering Support	MIPR	AMCOM/CCDC AvMC : RSA, AL	-	-		-		5.134	Nov 2021	-		5.134	0.000	5.134	-
Software Development	MIPR	S3I : RSA, AL	-	-		-		5.252	Feb 2022	-		5.252	0.000	5.252	-
<b>Subtotal</b>			-	-		-		174.291		-		174.291	0.000	174.291	N/A

**Remarks**  
 AMCOM - Aviation and Missile Command; CCDC AvMC - Combat Capabilities Development Center Aviation & Missile Command; LMMFCS - Lockheed Martin Missiles and Fire Control System; RSA - Redstone Arsenal, Alabama; S3I - Systems Simulation, Software and Integration; TX - Texas

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army** **Date:** May 2021

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605231A / Precision Strike Missile (PrSM)	<b>Project (Number/Name)</b> CO3 / Precision Strike Missile (PrSM)
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<b>Support (\$ in Millions)</b>				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
Quality, Safety, SETA Support, and Analysis	SS/T&M	Various; Competitive SETA Contract Award in Aug 2021 : RSA, AL	-	-		-		4.169	Dec 2021	-		4.169	0.000	4.169	-
<b>Subtotal</b>			-	-		-		4.169		-		4.169	0.000	4.169	N/A

**Remarks**  
RSA - Redstone Arsenal, AL; SETA - Systems Engineering and Technical Assistance

<b>Test and Evaluation (\$ in Millions)</b>				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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 Support	MIPR	WSMR; RTC : WSMR, NM; RSA, AL	-	-		-		4.550	Dec 2021	-		4.550	0.000	4.550	-
<b>Subtotal</b>			-	-		-		4.550		-		4.550	0.000	4.550	N/A

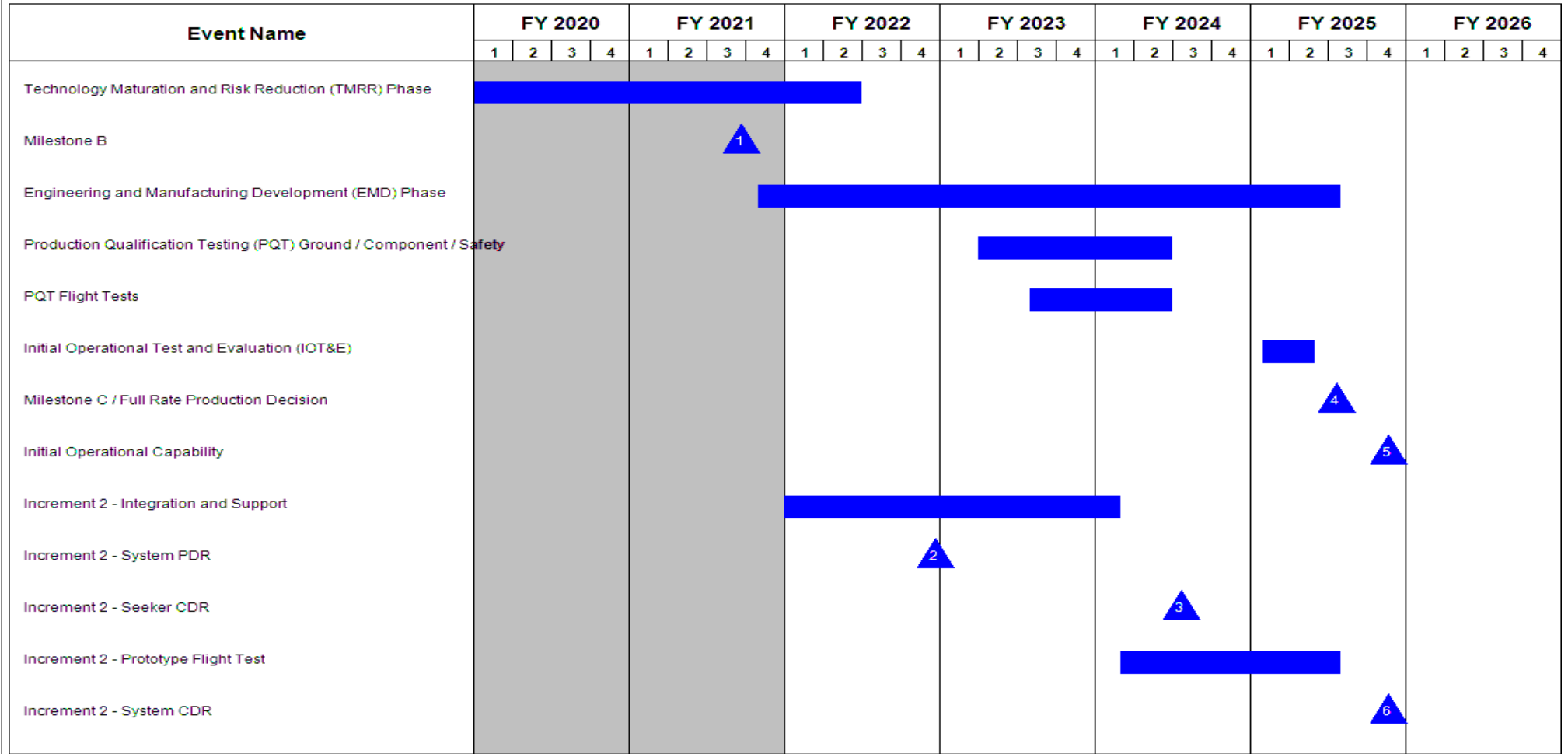
**Remarks**  
RTC - Redstone Test Center; RSA - Redstone Arsenal, Alabama; WSMR, NM - White Sands Missile Range, New Mexico

	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	-	-	0.000	188.452	-	188.452	0.000	188.452	N/A

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2022 Army</b>		<b>Date: May 2021</b>
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605231A / Precision Strike Missile (PrSM)	<b>Project (Number/Name)</b> CO3 / Precision Strike Missile (PrSM)



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2022 Army</b>			<b>Date: May 2021</b>		
<b>Appropriation/Budget Activity</b> 2040 / 5		<b>R-1 Program Element (Number/Name)</b> PE 0605231A / <i>Precision Strike Missile (PrSM)</i>		<b>Project (Number/Name)</b> CO3 / <i>Precision Strike Missile (PrSM)</i>	

Event Name	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	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
Increment 2 - ATEC User Demo																									7			

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2022 Army		<b>Date:</b> May 2021
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605231A / <i>Precision Strike Missile (PrSM)</i>	<b>Project (Number/Name)</b> CO3 / <i>Precision Strike Missile (PrSM)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Technology Maturation and Risk Reduction (TMRR) Phase	1	2020	2	2022
Milestone B	3	2021	3	2021
Engineering and Manufacturing Development (EMD) Phase	4	2021	3	2025
Production Qualification Testing (PQT) Ground / Component / Safety	2	2023	2	2024
PQT Flight Tests	3	2023	2	2024
Initial Operational Test and Evaluation (IOT&E)	1	2025	2	2025
Milestone C / Full Rate Production Decision	3	2025	3	2025
Initial Operational Capability	4	2025	4	2025
Increment 2 - Integration and Support	1	2022	1	2024
Increment 2 - System PDR	4	2022	4	2022
Increment 2 - Seeker CDR	3	2024	3	2024
Increment 2 - Prototype Flight Test	1	2024	3	2025
Increment 2 - System CDR	4	2025	4	2025
Increment 2 - ATEC User Demo	3	2026	3	2026