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

<b>Appropriation/Budget Activity</b> 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)	<b>R-1 Program Element (Number/Name)</b> PE 0605457A / Army Integrated Air and Missile Defense (AIAMD)
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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	-	154.257	263.545	284.095	-	284.095	365.377	216.206	136.141	167.156	0.000	1,586.777
S40: Army Integrated Air and Missile Defense	-	154.257	263.545	254.163	-	254.163	355.723	214.394	135.637	166.652	0.000	1,544.371
SS1: Remote Interceptor Guidance (RIG) 360 Dev and Int	-	-	-	29.932	-	29.932	9.654	1.812	0.504	0.504	0.000	42.406

**Program MDAP/MAIS Code:** 205

**Note**  
 Beginning in FY 2024, funding was realigned from PE 0605457A, Project S40: Army Integrated Air and Missile Defense to PE 0605457A, Project SS1: Remote Interceptor Guidance (RIG) 360 Dev and Int due to it becoming a separate Acquisition Category III (ACAT III) program.

**A. Mission Description and Budget Item Justification**  
 This funding line is directly aligned to the U.S. Army Air and Missile Defense (AMD) Modernization Priority. The Army Integrated Air and Missile Defense (AIAMD) program is a designated Major Defense Acquisition Program (MDAP), a critical component of the Army's AMD strategy, and is a top AMD Cross Functional Team modernization priority program.

The AIAMD program is a direct response to the U.S. Army AMD Concept and Operational and Organizational (O&O) Plan for the Future Force, the AIAMD System of Systems (SoS) Capabilities Development Document (CDD) and the AMD Task Force Concept of Operations (CONOPS). The AIAMD Program is uniquely structured to enable the development of an overarching SoS capability with all participating Department of Defense (DoD) Air Defense Artillery (ADA) components functioning interdependently to provide total operational capabilities not achievable by the individual element systems. The AIAMD program achieves this objective by establishing the AIAMD architecture and developing (1) the IAMD Battle Command Systems (IBCS) Engagement Operations Center (EOC) that provides the common Mission Command capability, (2) the Integrated Fire Control Relay capability for fire control connectivity and distributed operations, and (3) the common Plug and Fight (P&F) Kits that network-enable multiple sensor components, weapon components, and the IBCS EOC.

The AIAMD Program provides advanced capabilities to the Army through agile software development and a network-centric SoS capability (also referred to as "Plug and Fight") that integrates AMD sensors and weapons with the IBCS EOC. The AIAMD SoS architecture enables extended range and non-line-of-sight engagements, to include joint kill chain engagements across the full spectrum of aerial threats, providing fire control quality data to the most appropriate weapon to complete the mission successfully. Further, it mitigates the coverage gaps and single points of failure that have plagued AMD design in the past. The AIAMD program provides the user with the ability to train on a single C2 system, resulting in overall training savings. The AIAMD program also provides the Army with the ability to procure components that interface with the Integrated Fire Control Network (IFCN), alleviating the cost of procuring total system capabilities in the future.

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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 0605457A / <i>Army Integrated Air and Missile Defense (AIAMD)</i>
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AIAMD Initial Operation Capability (IOC) will be delivered through the fielding of the IBCS-based AIAMD architecture including the IBCS EOC, IFCN Relay, Sentinel A3, and PATRIOT components working in an integrated manner through the IFCN connection. The government controlled open architecture enables integration of beyond IOC capabilities to meet emerging threats and fielding to include but, not limited to, Air Defense Airspace Management (ADAM) Cells, ADA Brigade, and Army Air and Missile Defense Command (AAMDC). The AIAMD Program will also continue integration with both Lower Tier Air and Missile Defense Sensor (LTAMDS) and Enduring Indirect Fire Protection Capability (IFPC).

Remote Interceptor Guidance 360 (RIG-360) is a software-defined, X-band missile communications device that provides full hemispherical, 360 degree in-flight communications with the Patriot Advanced Capability 3 (PAC-3) family of interceptors. The RIG-360 program provides an additional follow-on capability to the AIAMD architecture. RIG-360 augments the performance of the PAC-3 family of interceptors and enables AIAMD to expand the area of control of the PAC-3 interceptors to their full kinematic potential, while increasing the defense effectiveness to full 360 degree coverage against attacking non-ballistic threats. RIG-360 supports interceptor communication, allowing PAC-3 family of missiles engagement independent from the Patriot radar or Lower Tier Air and Missile Defense Sensor. This de-coupling of interceptor from radar advances program goals to pair any sensor with the best shooter, and expands asset defense and engagement space supporting Multi Domain Operations and Large Scale Combat Operations. By using the RIG-360 to communicate with PAC-3 interceptors, the Integrated Battle Command System can conduct engagements even if the radar is unavailable due to hardware failure, battle damage, or successful electronic attack.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	159.873	265.288	289.312	-	289.312
Current President's Budget	154.257	263.545	284.095	-	284.095
Total Adjustments	-5.616	-1.743	-5.217	-	-5.217
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-11.743			
• Congressional Rescissions	-	-			
• Congressional Adds	-	10.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-5.616	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-5.217	-	-5.217

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

**Project:** S40: *Army Integrated Air and Missile Defense*

Congressional Add: *Kill Chain Automation*

	<b>FY 2022</b>	<b>FY 2023</b>
	6.000	10.000
Congressional Add Subtotals for Project: S40	6.000	10.000
Congressional Add Totals for all Projects	6.000	10.000

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**Change Summary Explanation**

The decrease in Pacific Deterrence Initiative (PDI) funding in FY 2024 is due to realigning Defense of Guam funding to the correct Program Elements to support the planned architecture.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 2040 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0605457A / <i>Army Integrated Air and Missile Defense (AIAMD)</i>				<b>Project (Number/Name)</b> S40 / <i>Army Integrated Air and Missile Defense</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
<i>S40: Army Integrated Air and Missile Defense</i>	-	154.257	263.545	254.163	-	254.163	355.723	214.394	135.637	166.652	0.000	1,544.371
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This funding line is directly aligned to the U.S. Army Air and Missile Defense (AMD) Modernization Priority. The Army Integrated Air and Missile Defense (AIAMD) program is a designated Major Defense Acquisition Program (MDAP), a critical component of the Army's AMD strategy, and is a top AMD Cross Functional Team modernization priority program.

The AIAMD program is a direct response to the U.S. Army AMD Concept and Operational and Organizational (O&O) Plan for the Future Force, the AIAMD System of Systems (SoS) Capabilities Development Document (CDD) and the AMD Task Force Concept of Operations (CONOPS). The AIAMD Program is uniquely structured to enable the development of an overarching SoS capability with all participating Department of Defense (DoD) Air Defense Artillery (ADA) components functioning interdependently to provide total operational capabilities not achievable by the individual element systems. The AIAMD program achieves this objective by establishing the AIAMD architecture and developing (1) the IAMD Battle Command Systems (IBCS) Engagement Operations Center (EOC) that provides the common Mission Command capability, (2) the Integrated Fire Control Relay capability for fire control connectivity and distributed operations, and (3) the common Plug and Fight (P&F) Kits that network-enable multiple sensor components, weapon components, and the IBCS EOC.

The AIAMD Program provides advanced capabilities to the Army through agile software development and a network-centric SoS capability (also referred to as "Plug and Fight") that integrates AMD sensors and weapons with the IBCS EOC. The AIAMD SoS architecture enables extended range and non-line-of-sight engagements, to include joint kill chain engagements across the full spectrum of aerial threats, providing fire control quality data to the most appropriate weapon to complete the mission successfully. Further, it mitigates the coverage gaps and single points of failure that have plagued AMD design in the past. The AIAMD program provides the user with the ability to train on a single C2 system, resulting in overall training savings. The AIAMD program also provides the Army with the ability to procure components that interface with the Integrated Fire Control Network (IFCN), alleviating the cost of procuring total system capabilities in the future.

AIAMD Initial Operation Capability (IOC) will be delivered through the fielding of the IBCS-based AIAMD architecture including the IBCS EOC, IFCN Relay, Sentinel A3, and PATRIOT components working in an integrated manner through the IFCN connection. The government controlled open architecture enables integration of beyond IOC capabilities to meet emerging threats and fielding to include but, not limited to, Air Defense Airspace Management (ADAM) Cells, ADA Brigade, and Army Air and Missile Defense Command (AAMDC). The AIAMD Program will also continue integration with both Lower Tier Air and Missile Defense Sensor (LTAMDS) and Enduring Indirect Fire Protection Capability (IFPC).

Funding in FY 2024 supports agile software development and integration, developmental testing and requirements verification of the software build, operational testing, and integration activities for integrated fires capabilities. Funding provides for integration of Army Long Range Persistent Surveillance (ALPS), and also continues Post-IOC 1-N Capabilities to include Terminal High Altitude Area Defense (THAAD) Planner, Sentinel A4, and F-35 Joint Striker. Funding in the amount of \$37.826M supports

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Pacific Deterrence Initiative (PDI) planned architecture. Also included is the software development for Forward Area Air Defense Command and Control (FAAD C2) Convergence into IBCS as well as funding to support development of AMD capabilities.				
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> Product Development <b>Description:</b> Product development in support of agile software development.		49.799	-	-
<b>Title:</b> Test and Evaluation <b>Description:</b> Test and Evaluation support for modeling and simulation, developmental test activities and IOT&E.		35.483	-	-
<b>Title:</b> Product Development - Beyond Initial Operational Capability (IOC) <b>Description:</b> Product development in support of agile software development and integration efforts for additional capability beyond that fielded at IOC.  <b>FY 2023 Plans:</b> Funding provides support for developmental software integration testing as well as Defense of Guam support for the planned architecture and an increase to facilitate additional capability development. Agile software development continues to support enduring development efforts and includes software fixes and improvements to counter emerging threats and incorporate emerging technology. Funding also initiates the development, test, and integration of 1-N Capabilities to include ALPS, THAAD Planner, and F-35 Joint Striker. Funding supports JTMC Bridge Integration as well as IBCS development to support full weapon/threat planning and engagements. Funding also supports the continued development of IFPC as well as the development and integration efforts of the RIG-360, which will provide integration of an independent, adapted Uplinker into IBCS to support 360-degree PAC-3 MSE engagements outside the coverage of the current PATRIOT radar.  <b>FY 2024 Plans:</b> Funding provides support for developmental software integration testing as well as continues the Defense of Guam support for the planned architecture. Agile software development continues to support enduring development efforts and includes software fixes and improvements to counter emerging threats and incorporate emerging technology. Funding continues the development, test, and integration of 1-N Capabilities to include ALPS, THAAD Planner, and F-35 Joint Striker. Funding supports JTMC Bridge Integration as well as IBCS development to support full weapon/threat planning and engagements. Funding also supports the continued development and integration of IFPC.  <b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Funding increase to facilitate additional capability development and the Software Integration Facility.		46.526	112.052	157.251
<b>Title:</b> Test and Evaluation - Beyond IOC Capability		16.449	132.239	96.912

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p><b>Description:</b> Test and Evaluation support for modeling and simulation, developmental test, and follow-on operational test events for additional capability beyond that fielded at IOC.</p> <p><b>FY 2023 Plans:</b> Continues Modeling and Simulation efforts at the Government Systems Integration Lab, Joint Interoperability Test Support, Army Test and Evaluation Center, Orange Flag, Project Convergence, Joint All-Domain Command and Control, Integrated Fires Test, and White Sands Missile Range test support for developmental test activities. Specific test efforts include: software development and software requirements verification, cyber testing, initial testing for F-35 &amp; RIG-360, and test planning of future developmental and operational tests. Funding includes test hardware requirements as well as lab infrastructure for additional test lines for RIG-360, JTMC, and THAAD Integration for the Defense of Guam planned architecture.</p> <p><b>FY 2024 Plans:</b> Continues Modeling and Simulation efforts at the Government Systems Integration Lab, Joint Interoperability Test Support, Army Test and Evaluation Center, Orange Flag, Project Convergence, Joint All-Domain Command and Control, Integrated Fires Test, and White Sands Missile Range test support for developmental test activities. Specific test efforts include: software development and software requirements verification, cyber testing, initial testing for F-35 and test planning of future developmental and operational tests. Funding includes test hardware requirements as well as lab infrastructure for additional test lines for RIG-360, JTMC, and THAAD Integration in support of Defense of Guam planned architecture and an increase to facilitate additional capability development.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> The decrease is due to realigning Defense of Guam funding to the correct Program Elements to support the planned architecture and splitting out RIG-360 costs to Project SS1 within this same program element.</p>				
<p><b>Title:</b> SBIR/STTR Transfer</p> <p><b>Description:</b> Funding transferred in accordance with Title 15 USC §638.</p> <p><b>FY 2023 Plans:</b> Funding transferred in accordance with Title 15 USC §638.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Funding transferred in accordance with Title 15 USC §638.</p>		-	9.254	-
<b>Accomplishments/Planned Programs Subtotals</b>		148.257	253.545	254.163

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		<b>FY 2022</b>	<b>FY 2023</b>
<b>Congressional Add:</b> Kill Chain Automation		6.000	10.000
<p><b>FY 2022 Accomplishments:</b> Funding supports design, code, and integration of kill-chain automation enhancements into the Integrated Battle Command System (IBCS). Funding improves algorithms and techniques for target typing and Combat Identification to improve performance and reduce fratricide risks. Funding also improves design to the IBCS User Interface to streamline operator awareness and feedback for automated actions.</p> <p><b>FY 2023 Plans:</b> Funding continues support of design, code, and integration of kill-chain automation enhancements into the Integrated Battle Command System (IBCS). Funding also improves algorithms and techniques for target typing and Combat Identification to improve performance and reduce fratricide risks. Funding also improves design to the IBCS User Interface to streamline operator awareness and feedback for automated actions.</p>			
<b>Congressional Adds Subtotals</b>		6.000	10.000

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

<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u> <u>Base</u>	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> <u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• C53101: MSE Missile	1,333.148	1,037.093	1,212.832	-	1,212.832	961.192	973.464	985.250	985.854	Continuing	Continuing
• EX2: Lower Tier Air Missile Defense (LTAMD) Capability	408.766	380.147	816.663	-	816.663	118.939	122.544	89.261	90.257	Continuing	Continuing
• EY7: IFPC Increment 2 - Block 1	175.604	131.093	196.248	-	196.248	154.275	166.672	113.841	135.117	Continuing	Continuing
• C62002: IFPC INC 2- I BLOCK 1 SYSTEM	19.053	18.924	313.189	-	313.189	697.307	1,002.324	1,023.636	985.973	0.000	4,060.406
• E10: Sentinel	124.832	71.259	94.944	-	94.944	48.837	18.987	8.508	8.603	Continuing	Continuing
• BZ5075: IAMD Battle Command System	399.800	438.967	412.556	-	412.556	509.654	572.362	658.046	442.781	Continuing	Continuing
• 146: Air & Msl Defense Planning Control Sys	2.772	1.255	26.367	-	26.367	20.465	15.600	15.893	16.160	Continuing	Continuing
• AD5070: AIR & MSL Defense Planning & Control Sys	67.193	72.619	68.892	-	68.892	67.495	-	-	-	0.000	276.199
• 0604403A: Future Interceptor	6.643	8.179	8.040	-	8.040	8.042	8.052	8.138	8.229	0.000	55.323
• 0604117A: Maneuver - Short Range Air Defense (M-SHORAD)	37.939	274.838	281.239	-	281.239	331.362	324.855	422.392	455.779	Continuing	Continuing

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

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605457A / Army Integrated Air and Missile Defense (AIAMD)	<b>Project (Number/Name)</b> S40 / Army Integrated Air and Missile Defense
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**C. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u> <u>Base</u>	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> <u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• C14300: M-SHORAD - Procurement	332.984	135.747	400.697	-	400.697	-	-	-	-	Continuing	Continuing

**Remarks**

This program is an integral part of the Army Integrated Air and Missile Defense (AIAMD) architecture. It provides for development of a common Integrated Fire Control System through a government controlled open architecture approach allowing for integration of Air Defense Artillery (ADA) components as they become available. This approach enables the AIAMD program to maintain its baseline program independent of fluctuation of other programs.

**D. Acquisition Strategy**

The AIAMD acquisition strategy delivers an Initial Operational Capability (IOC) in FY 2023. The capabilities are delivered through the fielding of the IAMD Battle Command System (IBCS) based AIAMD architecture including the IBCS Engagement Operations Center (EOC), Sentinel A4, and PATRIOT (through a Radar Interface Unit (RIU)) components connected via an Integrated Fire Control Network (IFCN) Relay, working in an integrated manner while also incorporating the insertion of emerging technology. Future capabilities include but not limited to the incorporation of IBCS functionality into Enduring Indirect Fire Protection Capabilities (IFPC), Lower Tier Air and Missile Defense Sensor (LTAMDS), Army Persistent Surveillance System (ALPS), Terminal High Altitude Area Defense (THAAD) Planner, F-35 Joint Strike Fighter, and other Army and Joint weapon systems using an agile development process.

Key principles of the AIAMD acquisition approach are the following:

- Migrate from system-based acquisition to competitive, component-based acquisition using agile development/operations methodology IAW FY 2019 National Defense Authorization Act direction.
- Use system-of-systems acquisition approach with collaboration among AIAMD, PEO MS, PEO C3T, and Brigade Combat Team (BCT) Modernization Component Project Offices, Missile Defense Agency (MDA), and other Service Project Offices to network-enable weapons and sensor components.
- Develop and procure a common Army IBCS EOC that replaces seven weapon system unique Battle Management Command, Control, Communications, Computers and Intelligence (BMC4I) components.
- Establish product lines used to evaluate and select, modify and integrate modular open systems hardware and software common configuration items.
- Conduct architecture-based System Engineering, Integration and Test (SEI&T) activities for an incrementally fielded configuration of the AIAMD Integrated Fire Control Network-compatible IBCS EOC, weapons and sensor system components to include testing of resiliency and survivability in a denied environment.
- The DAE approved AIAMD to enter the Software Acquisition Pathway (SWP) Execution Phase and LRIP Re-Characterization ADM on September 21, 2021. The program continues to develop SW via the Agile development methodology. SW development provide a Min Viable product quarterly in the Program Increments (PI) and a Minimum Viable capability Release annually.
- The Follow-On Software Contract provides Agile developed software-based improvements and capability additions to the Air and Missile Defense (AMD) weapon systems.

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- Software testing occurs at the end of each PI starting with functional testing at the Contractor System Integration Lab (C-SIL), followed by regression and performance testing for requirements validation in the government System Integration lab (G-SIL). Software is then delivered to WSMR for developmental testing with tactical Sensors and Weapons.
- The program SW path forward includes the development, improvements, and integration of capabilities to support a LRIP, a Full Rate Production Decision and IOC in FY23. PIs 14-17 (CY23) Include correcting SW defects identified in IOT&E, integrating LRIP ECPs, and additional capabilities such as Link 16, LTAMDS, IFPC, Sentinel A4, Rig 360, and THAAD Planner. PI 18-21 (CY24) includes prioritized capabilities such as ALPS, THAAD, FAAD C2 Convergence, AMDPCS, F35, and the Defense of Guam requirements.
- The common fires mission command program is the centerpiece of an integrated fires development effort that includes survivability, resiliency, and effectiveness improvements against advanced threats from near-peer adversaries. This effort includes component integration, common development tools and processes, and annual test and evaluation to provide data to support program assessments and progress toward closure of performance gaps.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Army												Date: March 2023			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0605457A / Army Integrated Air and Missile Defense (AIAMD)				S40 / Army Integrated Air and Missile Defense							
Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
SBIR/STTR	TBD	TBD : TND	-	-		9.254		-		-		-	0.000	9.254	-
<b>Subtotal</b>			-	-		9.254		-		-		-	0.000	9.254	N/A
Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
AIAMD System Engineering & Integration	C/CPFF	Various : Huntsville, AL	237.770	14.343	Jan 2022	18.618	Mar 2023	23.986	Oct 2023	-		23.986	Continuing	Continuing	Continuing
IAMD Engineering Manufacturing and Development	SS/ Various	Northrop Grumman, Raytheon, Lockheed Martin and Other : Huntsville, AL and Various other locations	1,737.175	46.956	Oct 2021	-		-		-		-	Continuing	Continuing	Continuing
AIAMD Capability Development	SS/ Various	Northrop Grumman, Raytheon, Lockheed Martin and Other : Huntsville, AL and Various other locations	-	-		43.108	Mar 2023	84.046	Oct 2023	-		84.046	0.000	127.154	Continuing
Government Furnished Equipment	MIPR	Various : Multiple	43.383	2.755	Mar 2022	-		-		-		-	Continuing	Continuing	Continuing
Government Systems Engineering and Logistics	Various	Various : Huntsville, AL	127.085	12.271	Nov 2021	13.300	Dec 2022	15.015	Oct 2023	-		15.015	Continuing	Continuing	Continuing
Army 1-N Capability	Various	Various : TBD	-	-		10.700	Feb 2023	17.467	Oct 2023	-		17.467	Continuing	Continuing	Continuing
Kill Chain Automation	Various	Various : Huntsville, AL; Grande Prairie, TX; Oklahoma City	-	6.000	Oct 2022	10.000	Apr 2023	-		-		-	0.000	16.000	Continuing
RIG-360	SS/IDIQ	Lockheed Martin : Huntsville, AL and Grand Prairie, TX	-	4.000	Mar 2023	47.146	Mar 2023	-		-		-	0.000	51.146	-
Defense of Guam	Various	Various : Various	-	-		60.652	Jun 2023	22.596	Oct 2023	-		22.596	0.000	83.248	-

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

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605457A / Army Integrated Air and Missile Defense (AIAMD)	<b>Project (Number/Name)</b> S40 / Army Integrated Air and Missile Defense
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<b>Product Development (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
Software Integration Facility	Various	Various : Various	-	-		-		21.400	Oct 2023	-		21.400	0.000	21.400	-
<b>Subtotal</b>			2,145.413	86.325		203.524		184.510		-		184.510	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2022</b>		<b>FY 2023</b>		<b>FY 2024 Base</b>		<b>FY 2024 OCO</b>		<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
Other Test Activities/ Army Evaluation Center/ Developmental Test Command/Operational Test Command	MIPR	Various : Multiple Locations	113.080	21.966	Nov 2021	10.262	Apr 2023	13.028	Oct 2023	-		13.028	Continuing	Continuing	Continuing
Modeling & Sim/Joint Interoperability Test Spt	MIPR	SED : Huntsville, AL	239.336	23.281	Nov 2021	14.954	Apr 2023	17.982	Oct 2023	-		17.982	Continuing	Continuing	Continuing
Range Support	MIPR	WSMR : White Sands, NM	83.881	22.685	Nov 2021	9.123	Apr 2023	10.079	Oct 2023	-		10.079	Continuing	Continuing	Continuing
Army 1-N Capability	Various	Various : Various	-	-		-		13.500	Oct 2023	-		13.500	Continuing	Continuing	Continuing
Defense of Guam	Various	Various : Various	-	-		16.428	Jun 2023	15.064	Oct 2023	-		15.064	Continuing	Continuing	Continuing
<b>Subtotal</b>			436.297	67.932		50.767		69.653		-		69.653	Continuing	Continuing	N/A

<b>Project Cost Totals</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
2,581.710	154.257		263.545	254.163	-	254.163	Continuing	Continuing	N/A

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 Army</b>			<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605457A / Army Integrated Air and Missile Defense (AIAMD)	<b>Project (Number/Name)</b> S40 / Army Integrated Air and Missile Defense	

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
Modeling and Simulation	[Blue bar spanning all quarters from FY 2022 to FY 2028]																											
PI-5 thru PI-8 Agile SW Development (IOT&E SW)	[Blue bar]																											
PI-5 thru PI-8 Agile SW HWIL Int Test & Rqmt Verification	[Blue bar]																											
PI-5 thru PI-8 Dev Ground/Flight Testing (IOT&E SW)	[Blue bar]																											
IOT&E (OTRR 2, Sustained Ops, M&S, Live Fire Test)	[Blue bar]																											
PI-9 thru PI-12 Agile SW Development	[Blue bar]																											
PI-9 thru PI-12 Agile SW HWIL Int Test & Rqmt Verification	[Blue bar]																											
PI-9 thru PI-12 Developmental Ground/Flight Testing	[Blue bar]																											
IBCS LRIP Production	[Blue bar]																											
PI-10 Delta Operational Assessment				[Blue bar]																								
PI-13 thru PI-16 Agile SW Development					[Blue bar]																							
PI-13 thru PI-16 Agile SW HWIL Int Test & Rqmt Verification					[Blue bar]																							
PI-13 thru PI-16 Developmental Ground/Flight Testing					[Blue bar]																							

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 Army</b>			<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605457A / Army Integrated Air and Missile Defense (AIAMD)	<b>Project (Number/Name)</b> S40 / Army Integrated Air and Missile Defense	

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
Full Rate Production Decision Review					▲ 1																							
Initial Operational Capability					▲ 2																							
Future Capability Agile SW Development and Test																												
PI-17 thru 20 Agile SW Development																												
Delta Qualification Testing																												
FY24 IBCS - LTAMDS Operational Test / Evaluation																												
FY24 IBCS - IFPC Operational Test / Evaluation																												
PI-17 thru 20 Agile SW HWIL Int Test and Rqmt Verification																												
IBCS FRP Production																												
FY24 IBCS - Patriot Operational Test / Evaluation																												
PI-17 thru 20 Developmental Ground/Flight Test																												
PI-21 thru 24 Agile SW Development																												
FY25 IBCS - LTAMDS Operational Test / Evaluation																												

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 Army</b>			<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605457A / Army Integrated Air and Missile Defense (AIAMD)	<b>Project (Number/Name)</b> S40 / Army Integrated Air and Missile Defense	

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
PI-21 thru 24 Agile SW HWIL Int Test and Rqmt Verification																												
PI-21 thru 24 Agile SW Development Ground Testing																												
FY25 IBCS - Patriot Operational Test / Evaluation																												
PI-25 thru 28 Agile SW HWIL Int Test and Rqmt Verification																												
PI-25 thru 28 Agile SW Development Ground Testing																												
PI-25 thru 28 Agile SW Development																												
FY26 IBCS - IFPC Operational Test / Evaluation																												
FY26 IBCS - Patriot Operational Test / Evaluation																												
FY26 IBCS - LTAMDS Operational Test / Evaluation																												
PI-29 thru 32 Agile SW Development																												
PI-29 thru 32 Agile SW HWIL Int Test and Rqmt Verification																												
FY27 Follow-on Operational Test / Evaluation																												
PI-33 thru 36 Agile SW Development																												

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 Army</b>			<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605457A / Army Integrated Air and Missile Defense (AIAMD)	<b>Project (Number/Name)</b> S40 / Army Integrated Air and Missile Defense	

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
PI-29 thru 32 Agile SW Development Ground Testing																												
PI-33 thru 36 Agile SW HWIL Int Test and Rqmt Verification																												
PI-33 thru 36 Agile SW Development Ground Testing																												
FY28 Follow-on Operational Test / Evaluation																												

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details: PB 2024 Army</b>		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605457A / Army Integrated Air and Missile Defense (AIAMD)	<b>Project (Number/Name)</b> S40 / Army Integrated Air and Missile Defense

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Modeling and Simulation	1	2013	4	2028
EMD Developmental Test (DT)	4	2014	1	2017
Product Readiness Review (PRR)	4	2016	4	2016
EMD DT Continuation	1	2018	1	2020
v4.5.0 Software (SW) Development	2	2018	1	2020
v4.5.0 Developmental Ground/Flight Testing	3	2019	1	2020
PI-1 thru PI-4 Agile SW Development	1	2020	4	2020
PI-1 thru PI-4 SW Developmental Ground/Flight Testing	2	2020	2	2021
PI-1 thru PI-4 Agile SW HWIL Int Test & Rqmt Verification	2	2020	1	2021
Software Version 4.6.0 Capabilities Review	3	2020	3	2020
Limited User Test	4	2020	4	2020
PI-5 thru PI-8 Agile SW Development (IOT&E SW)	1	2021	1	2022
PI-5 thru PI-8 Agile SW HWIL Int Test & Rqmt Verification	2	2021	1	2022
Milestone C Decision	2	2021	2	2021
PI-5 thru PI-8 Dev Ground/Flight Testing (IOT&E SW)	2	2021	1	2022
Software Version 4.6.1 Capabilities Review	3	2021	3	2021
IOT&E (OTRR 2, Sustained Ops, M&S, Live Fire Test)	1	2022	1	2023
PI-9 thru PI-12 Agile SW Development	1	2022	1	2023
PI-9 thru PI-12 Agile SW HWIL Int Test & Rqmt Verification	2	2022	1	2023
PI-9 thru PI-12 Developmental Ground/Flight Testing	2	2022	1	2023
IBCS LRIP Production	2	2022	2	2025
PI-10 Delta Operational Assessment	4	2022	1	2023

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

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605457A / Army Integrated Air and Missile Defense (AIAMD)	<b>Project (Number/Name)</b> S40 / Army Integrated Air and Missile Defense
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Events	Start		End	
	Quarter	Year	Quarter	Year
PI-13 thru PI-16 Agile SW Development	1	2023	1	2024
PI-13 thru PI-16 Agile SW HWIL Int Test & Rqmt Verification	2	2023	1	2024
PI-13 thru PI-16 Developmental Ground/Flight Testing	2	2023	1	2024
Full Rate Production Decision Review	2	2023	2	2023
Initial Operational Capability	3	2023	3	2023
Future Capability Agile SW Development and Test	1	2024	4	2028
PI-17 thru 20 Agile SW Development	1	2024	1	2025
Delta Qualification Testing	2	2024	4	2024
FY24 IBCS - LTAMDS Operational Test / Evaluation	1	2024	1	2024
FY24 IBCS - IFPC Operational Test / Evaluation	2	2024	2	2024
PI-17 thru 20 Agile SW HWIL Int Test and Rqmt Verification	2	2024	2	2025
IBCS FRP Production	2	2024	4	2028
FY24 IBCS - Patriot Operational Test / Evaluation	4	2024	4	2024
PI-17 thru 20 Developmental Ground/Flight Test	2	2024	2	2025
PI-21 thru 24 Agile SW Development	1	2025	1	2027
FY25 IBCS - LTAMDS Operational Test / Evaluation	1	2025	1	2025
PI-21 thru 24 Agile SW HWIL Int Test and Rqmt Verification	2	2025	2	2026
PI-21 thru 24 Agile SW Development Ground Testing	2	2025	2	2026
FY25 IBCS - Patriot Operational Test / Evaluation	3	2025	3	2025
PI-25 thru 28 Agile SW HWIL Int Test and Rqmt Verification	2	2026	2	2027
PI-25 thru 28 Agile SW Development Ground Testing	2	2026	2	2027
PI-25 thru 28 Agile SW Development	2	2026	2	2027
FY26 IBCS - IFPC Operational Test / Evaluation	2	2026	2	2026
FY26 IBCS - Patriot Operational Test / Evaluation	3	2026	3	2026
FY26 IBCS - LTAMDS Operational Test / Evaluation	4	2026	4	2026

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

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605457A / <i>Army Integrated Air and Missile Defense (AIAMD)</i>	<b>Project (Number/Name)</b> S40 / <i>Army Integrated Air and Missile Defense</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
PI-29 thru 32 Agile SW Development	1	2027	1	2028
PI-29 thru 32 Agile SW HWIL Int Test and Rqmt Verification	2	2027	2	2028
FY27 Follow-on Operational Test / Evaluation	3	2027	3	2027
PI-33 thru 36 Agile SW Development	1	2028	1	2029
PI-29 thru 32 Agile SW Development Ground Testing	2	2028	2	2029
PI-33 thru 36 Agile SW HWIL Int Test and Rqmt Verification	2	2028	2	2029
PI-33 thru 36 Agile SW Development Ground Testing	2	2028	2	2029
FY28 Follow-on Operational Test / Evaluation	3	2028	3	2028

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 2040 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0605457A / Army Integrated Air and Missile Defense (AIAMD)				<b>Project (Number/Name)</b> SS1 / Remote Interceptor Guidance (RIG) 360 Dev and Int			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
SS1: Remote Interceptor Guidance (RIG) 360 Dev and Int	-	-	-	29.932	-	29.932	9.654	1.812	0.504	0.504	0.000	42.406
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

Beginning in FY 2024, funding was realigned from PE 0605457A, Project S40: Army Integrated Air and Missile Defense to PE 0605457A, Project SS1: Remote Interceptor Guidance (RIG) 360 Dev and Int due to it becoming a separate Acquisition Category III (ACAT III) program.

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

This funding line is directly aligned to the U.S. Army Air and Missile Defense (AMD) Modernization Priority. The Army Integrated Air and Missile Defense (AIAMD) program is a designated Major Defense Acquisition Program (MDAP), a critical component of the Army's AMD strategy, and is a top AMD Cross Functional Team modernization priority program.

Remote Interceptor Guidance 360 (RIG-360) is a software-defined, X-band missile communications device that provides full hemispherical, 360-degree in-flight communications with the Patriot Advanced Capability 3 (PAC-3) family of interceptors. The RIG-360 program provides an additional follow-on capability to the AIAMD architecture. RIG-360 augments the performance of the PAC-3 family of interceptors and enables AIAMD to expand the area of control of the PAC-3 interceptors to their full kinematic potential, while increasing the defense effectiveness to full 360-degree coverage against attacking non-ballistic threats. RIG-360 supports interceptor communication, allowing PAC-3 family of missiles engagement independent from the Patriot radar or Lower Tier Air and Missile Defense Sensor. This de-coupling of interceptor from radar advances program goals to pair any sensor with the best shooter and expands asset defense and engagement space supporting Multi Domain Operations and Large-Scale Combat Operations. By using the RIG-360 to communicate with PAC-3 interceptors, the Integrated Battle Command System can conduct engagements even if the radar is unavailable due to hardware failure, battle damage, or successful electronic attack.

The RIG-360 consists of two Major End Items, the Control Assembly and Array Assembly. The Control Assembly is the control node for the Array Assembly and serves as the Adaptation Kit (A-Kit) to the Integrated Fire Control Network. The Control Assembly will be in a rack-mounted case. This will provide outer ruggedness to environmental conditions with internal shock isolation, while allowing easy interchange of power supplies, server components, or other components as required within an industry standard rack assembly. The RIG-360 Array Assembly is a mast-mounted, X-band array of antennas that transmit and receive the radio frequency PAC-3 missile communication waveforms.

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

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> RIG-360 Development	-	-	28.281
<b>Description:</b> RIG-360 funding was allocated to a new Program Element in FY 2024. FY 2023 funding is in Project S40: Army Integrated Air and Missile Defense. FY 2023 accomplishments include contract award and completion of a System Requirements			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Army		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605457A / Army Integrated Air and Missile Defense (AIAMD)	<b>Project (Number/Name)</b> SS1 / Remote Interceptor Guidance (RIG) 360 Dev and Int

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
Review. FY 2024 planned accomplishments are continued component development, completion of a Preliminary Design Review and development testing.			
<b>FY 2024 Plans:</b> Provides support for developmental test activities.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase was due to the realignment of funding from Project S40: Army Integrated Air and Missile Defense to Project S1: Remote Interceptor Guidance (RIG) 360 Dev and Int due to it becoming a separate Acquisition Category III (ACAT III) program.			
<b>Title:</b> Test and Evaluation <b>Description:</b> Test and Evaluation in support of RIG-360.	-	-	1.651
<b>FY 2024 Plans:</b> Provides support for preparation and conduct of developmental test activities.			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase was due to the realignment of funding from Project S40: Army Integrated Air and Missile Defense to Project SS1: Remote Interceptor Guidance (RIG) 360 Dev and Int due to it becoming a separate ACAT III program.			
<b>Accomplishments/Planned Programs Subtotals</b>	-	-	29.932

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• 0605457A: Army Integrated Air and Missile Defense (AIAMD)	154.257	263.545	284.095	-	284.095	365.377	216.206	136.141	167.156	Continuing	Continuing
• BZ5075: IAMD Battle Command System	399.800	438.967	412.556	-	412.556	509.654	572.362	658.046	442.781	Continuing	Continuing
• DV8: Patriot Product Improvement	125.851	152.312	177.197	-	177.197	138.120	138.287	139.762	141.321	Continuing	Continuing
• C50700: Patriot Mods	287.479	253.689	212.247	-	212.247	179.513	573.119	502.009	208.218	Continuing	Continuing
• CA0267: PATRIOT	5.019	6.508	6.573	-	6.573	6.682	6.658	6.667	6.674	Continuing	Continuing
<b>MODIFICATION INITIAL SPARES</b>											

**Remarks**

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Army		Date: March 2023
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605457A / Army Integrated Air and Missile Defense (AIAMD)	Project (Number/Name) SS1 / Remote Interceptor Guidance (RIG) 360 Dev and Int

**D. Acquisition Strategy**

RIG-360 is a Major Capability Acquisition program entering at Milestone B. As directed in the 19 April 2022 Acquisition Decision Memorandum signed by the Army Acquisition Executive, the Program Executive Officer Missiles and Space is the Milestone Decision Authority for this Acquisition Category (ACAT) III program. The program had a successful Milestone B Decision in December 2022. Planned contract award 2Q 2023. The RIG-360 development program objectives include requirements definition, system design and analysis, qualification, and integration and test activities for a production representative RIG-360 device. A sole source IDIQ contract will be awarded to Lockheed Martin Missiles and Fire Control (LMMFC) in Grand Prairie, Texas. LMMFC is the sole developer and producer of the RIG-360 capability. They are also the only source with the knowledge, technical expertise, facilities, and the technical data to support Integrated Battle Command System integration and testing efforts related to RIG-360 uplink capabilities. The Government will procure a full production baseline Technical Data Package for the primary RIG-360 components (control assembly, antenna array and equipment platform) to include all technical data as documented in the approved product development design. The contractor will conduct a System Requirements Review, Preliminary Design Review, Critical Design Review, and Functional Configuration Audit for the RIG-360 program. All technical reviews will have pre-defined entrance and exit criteria agreed-to by the Government. Component testing will be conducted in conjunction with AIAMD developmental and operational testing to verify performance of the Major End Item. The program is planning for a Milestone C/Full Rate Production Decision in second quarter FY 2026.

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

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605457A / Army Integrated Air and Missile Defense (AIAMD)	<b>Project (Number/Name)</b> SS1 / Remote Interceptor Guidance (RIG) 360 Dev and Int
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<b>Product Development (\$ in Millions)</b>				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			
RIG-360 Engineering Manufacturing and Development	SS/ Various	Lockheed Martin Missile and Fire Control, Northrop Grumman : Grand Prairie, Texas; Huntsville, AL	-	-		-		25.305	Oct 2023	-		25.305	0.000	25.305	-
System Engineering and Integration	Various	Various : Various	-	-		-		2.076	Oct 2023	-		2.076	0.000	2.076	-
RIG-360 Program Management	TBD	Government : Various	-	-		-		0.900	Oct 2023	-		0.900	0.000	0.900	-
<b>Subtotal</b>			-	-		-		28.281		-		28.281	0.000	28.281	N/A

<b>Test and Evaluation (\$ in Millions)</b>				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			
RIG-360 Test and Evaluation	Various	Various : Various	-	-		-		1.651	Oct 2023	-		1.651	0.000	1.651	-
<b>Subtotal</b>			-	-		-		1.651		-		1.651	0.000	1.651	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
<b>Project Cost Totals</b>			-	-	-	29.932	-	29.932	0.000	29.932	N/A

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2024 Army</b>		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605457A / Army Integrated Air and Missile Defense (AIAMD)	<b>Project (Number/Name)</b> SS1 / Remote Interceptor Guidance (RIG) 360 Dev and Int

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				
System Development and Testing					[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]				[Redacted]							
Contract Award																													[Redacted]			
System Requirements Review					1																											
Preliminary Design Review									2																							
Developmental Testing									3				4																			
Critical Design Review													5				6															
Operational Testing																	7															
Milestone C																	8															
Full Rate Production																					9											

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 Army		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605457A / <i>Army Integrated Air and Missile Defense (AIAMD)</i>	<b>Project (Number/Name)</b> SS1 / <i>Remote Interceptor Guidance (RIG) 360 Dev and Int</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
System Development and Testing	2	2023	2	2026
Contract Award	2	2023	2	2026
System Requirements Review	3	2023	3	2023
Preliminary Design Review	3	2024	3	2024
Developmental Testing	4	2024	4	2024
Critical Design Review	2	2025	2	2025
Operational Testing	4	2025	4	2025
Milestone C	2	2026	2	2026
Full Rate Production	2	2027	2	2027