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

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604602F / <i>Armament/Ordnance Development</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	-	8.821	5.279	5.918	0.000	5.918	7.144	7.324	7.474	7.745	Continuing	Continuing
653133: <i>Bombs & Fuzes</i>	-	3.851	1.134	0.966	0.000	0.966	1.534	1.573	1.605	1.663	Continuing	Continuing
655361: <i>Stores-Aircraft Interface</i>	-	4.970	4.145	4.952	0.000	4.952	5.610	5.751	5.869	6.082	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Armament Ordnance Development program provides for the initial and continuing development of weapons, munitions, and munitions equipment for aircraft integration, support, and operational use. This program develops, characterizes, and improves current, future, and legacy munitions, ammunitions, and subsystems.

653133: The Bombs & Fuzes project improves conventional weapons/munitions (kinetic and non-kinetic), fuzes, and height-of-burst sensors (HOBS), and develops and integrates complementary common weapon components, data links, position, navigation, and timing (PNT) capabilities (i.e. GPS, non-GPS, optical, passive, active, etc.) using modern acquisition best practices, to include digital acquisition practices (e.g. government-owned open system architectures, Model Based Systems Engineering (MBSE) and agile software development). It also provides for the development and testing necessary for a suitable manufacturing base of conventional warheads, fuzes, HOBS, and munitions material handling equipment (MMHE). Bombs & Fuzes also provides research, development, testing, and guidance of conventional warheads, fuzing, HOBS modifications, and anti-personnel anti-materiel (APAM) weapons to improve lethality and survivability against area, mobile, hard and deeply buried, and fixed targets. Finally, this project provides an opportunity to quickly insert emerging technologies into existing and developing aircraft munitions and fuzes and supports strategic planning to achieve compliance of AF munitions with Department of Defense insensitive munitions (IM) standards.

Leverages common component development, in collaboration with other weapon systems, to reduce redundant costs between systems with similar subsystems requirements. Invests in analytical, information management, data management, digital environments, networks, facilities, and security infrastructure upgrades directly supporting development and sustainment of this program's capabilities, while leveraging DoD and DAF enterprise IT solutions.

The FY2024 funding request was reduced by \$1.070M to account for the availability of prior year execution balances.

655361: The Stores-Aircraft Interface project is home to the Universal Armament Interface (UAI). UAI is the Air Force's common standard aircraft/weapon interface and is an acquisition requirement, to be used by all weapons and combat aircraft as practicable. The UAI program continues development and maintenance of the standardized interface including mission planning components. Users include Air Force, Army, and Navy customers. The UAI program office is also responsible for development, enhancement, and maintenance of the standard to support coalition, allied, and joint interoperability efforts for weapons-platform interface. These responsibilities include acquisition, upgrade, repair, and provision of UAI certification tools, and implementation support to US Air Force, Army, Navy, and allied aircraft and weapons systems. UAI provides cost/schedule savings over traditional integration efforts. This is accomplished by enabling integration of weapons independent of aircraft Operational Flight Programs (OFP) cycles. UAI incorporates complex info such as: power management, target info, waypoints, flight/trajectory profile, fusing, launch parameters, verification of data sent/received, sensor info, and propulsion profiles.

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604602F / <i>Armament/Ordnance Development</i>
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This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605831F. In FY22 0.363M was expended for civilian pay expenses in this program element, and in FY23 0.255M is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	9.047	5.279	6.973	0.000	6.973
Current President's Budget	8.821	5.279	5.918	0.000	5.918
Total Adjustments	-0.226	0.000	-1.055	0.000	-1.055
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.226	0.000			
• Other Adjustments	0.000	0.000	-1.055	0.000	-1.055

Change Summary Explanation

The FY 2024 funding request was reduced to account for the availability of prior year execution balances.

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

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604602F / <i>Armament/Ordnance Development</i>	Project (Number/Name) 653133 / <i>Bombs & Fuzes</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
653133: <i>Bombs & Fuzes</i>	-	3.851	1.134	0.966	0.000	0.966	1.534	1.573	1.605	1.663	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Bombs & Fuzes project improves conventional weapons/munitions (kinetic and non-kinetic), fuzes, and height-of-burst sensors (HOBS), and develops and integrates complementary common weapon components, data links, position, navigation, and timing (PNT) capabilities (i.e. GPS, non-GPS, optical, passive, active, etc.) using modern acquisition best practices, to include digital acquisition practices (e.g. government-owned open system architectures, Model Based Systems Engineering (MBSE) and agile software development). It also provides for the development and testing necessary for a suitable manufacturing base of conventional warheads, fuzes, HOBS, and munitions materiel handling equipment (MMHE). Bombs & Fuzes also provides research, development, testing, and guidance of conventional warheads, fuzing, HOBS modifications, and anti-personnel anti-materiel (APAM) weapons to improve lethality and survivability against area, mobile, hard and deeply buried, and fixed targets. Finally, this project provides an opportunity to quickly insert emerging technologies into existing and developing aircraft munitions and fuzes and supports strategic planning to achieve compliance of AF munitions with Department of Defense insensitive munitions (IM) standards.

- Munitions Materiel Handling Equipment (MMHE): MMHE is a continuing project to develop and improve the standardization and commonality of munitions handling and armament equipment to preclude duplication. Efforts are primarily the study, design, and development of MMHE and armament control systems; however, support may be provided to other functional areas as requested. Procurement will be performed and funded by the applicable weapons system project.

- Medium Caliber Ammunition project assesses, refines, and develops medium caliber ammunition, to include, but not limited to, conducting 25mm (F-35) qualification testing, comparative testing, and mitigating ammunition inventory health issues.

- Insensitive Munitions (IM) and Emerging Technologies: IM projects support AF IM strategic planning to achieve IM compliance IAW U.S. Code, Title 10, Subtitle A, Part N, Chapter 141, Section 2389, ensuring safety regarding insensitive munitions. IM models and validates current munition performance, integrates less sensitive explosive fills, addresses IM explosive fill deficiencies, and develops bomb case modifications to improve the response of conventional weapons to unplanned stimuli. This project also explores and develops IM and Energetics technology, assessing, analyzing, and evaluating emerging and developed technologies for future and existing weapon and fuze capabilities to improve lethality, accuracy, and reliability in accordance with the National Defense Strategy roadmap.

- DSU-43/B Cockpit-selectable Height-Of-Burst Sensor (C-HOBS): The C-HOBS will be a replacement for the current DSU-33D/B proximity sensor. C-HOBS will replace the single factory height-of-burst setting with the addition of multiple height-of-burst options selectable via both manual switches and a cockpit interface. These selection options allow flexibility during flight to address a wide array of targets. The C-HOBS is intended to interface with Combat Air Forces (CAF) aircraft and provide proximity height-of-burst functionality to general and special purpose weapons (to include NGAAWs).

Implements Digital Acquisition tenants of Open, Agile, and Digital; builds and establishes industrial base innovation around the program's enterprise for modularity and adaptability for the life cycle of the weapons system. Leverages common component development, in collaboration with other weapon systems, to reduce redundant

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costs between systems with similar subsystems requirements. Invests in analytical, information management, data management, digital environments, networks, facilities, and security infrastructure upgrades directly supporting development and sustainment of this program's capabilities, while leveraging DoD and DAF enterprise IT solutions. Expands program office staff, facilities, and security infrastructure to support the required classification levels for this program's activities. Engages with DoD, DAF, and industry stakeholders to refine threat analysis, refine inventory requirements, and plan upgrade requirements. Capitalizes on and incorporates successful laboratory research and development efforts applicable to this program's capability.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605831F. In FY22 0.168M was expended for civilian pay expenses in this program element, and in FY23 0.096M is forecasted for civilian pay expenses in this program element.

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

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<p>Title: Munitions Materiel Handling Equipment (MMHE)</p> <p>Description: Armament Standardization/Control/Munitions Materiel Handling Equipment (MMHE) is a continuing project to develop and improve the standardization and commonality of munitions handling and armament equipment to preclude duplication. Efforts are primarily the study, design, and development of MMHE and armament control systems; however, support may be provided to other functional areas as requested. Procurement will be performed and funded by the applicable weapons system project.</p> <p>FY 2023 Plans: Continuation of MMHE support projects to include engineering, drafting, proof load, technical data, and safety authorizations. Fabricate prototypes for test and evaluation purposes. Continue first article equipment fabrications for drafting verification and delivery to Air Force units for additional test and evaluation. Provide support to all system program offices with new weapons and aircraft configurations, as needed. Continue support to the F-35 with designs and manufacturing of equipment to aid safe munitions loading and handling of various pylons and adapters. Continue to support the B-21 program office with evaluations and recommendations for equipment to aid safe munitions loading and handling of various pylons and adapters. Continue support to DARPA with designs and manufacturing of equipment to aid safe munitions loading and handling of hypersonic weapons. Continue support for Air Force Research Laboratory on future munition concept demonstrators.</p> <p>FY 2024 Base Plans: Continuation of MMHE support projects to include engineering, drafting, proof load, technical data, and safety authorizations. Fabricate prototypes for test and evaluation purposes. Continue first article equipment fabrications for drafting verification and delivery to Air Force units for additional test and evaluation. Provide support to all system program offices with new weapons and aircraft configurations, as needed. Continue</p>	0.576	0.700	0.777	0.000	0.777

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<p>support to the F-35 with designs and manufacturing of equipment to aid safe munitions loading and handling of various pylons and adapters. Continue to support the B-21 program office with evaluations and recommendations for equipment to aid safe munitions loading and handling of various pylons and adapters. Continue support to DARPA with designs and manufacturing of equipment to aid safe munitions loading and handling of hypersonic weapons. Continue support for Air Force Research Laboratory on future munition concept demonstrators.</p> <p>FY 2024 OCO Plans: N/A</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Funding increased because of increased demand for MMHE work to support the warfighter.</p>					
<p>Title: Medium Caliber Ammunition</p> <p>Description: The Medium Caliber Ammunition efforts support the warfighter's medium caliber ammunition research, development, test, and evaluation (RDT&E) requirements, DoN/USAF collaboration for the medium caliber family of ammunition, foreign comparative testing, inventory health challenges, procurement of ammunition, and other emerging technologies.</p> <p>FY 2023 Plans: Continue to provide engineering and technical support for PGU-48/B rounds as well as further comparative testing/EMD of alternative products/sources. Assess and mitigate Medium Caliber ammunition inventory health challenges.</p> <p>FY 2024 Base Plans: Continue to provide engineering and technical support for PGU-48/B rounds as well as further comparative testing/EMD of alternative products/sources. Assess and mitigate Medium Caliber ammunition inventory health challenges.</p> <p>FY 2024 OCO Plans: N/A</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: N/A</p>	0.100	0.100	0.100	0.000	0.100
<p>Title: Insensitive Munitions (IM) and Emerging Technology</p>	0.250	0.334	0.089	0.000	0.089

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<p>Description: Model and validate current munition performance; explore and develop IM and Energetics technology; assess, analyze, and evaluate emerging and developed technologies for future and existing weapon and fuze capabilities to improve lethality, accuracy, and reliability in accordance with the National Defense Strategy roadmap.</p> <p>FY 2023 Plans: Continue to provide guidance to ensure munitions are as safe as practical to include; assessing, analyzing, and evaluating emerging and future development of technologies in our weapons. Enhance and evolve direct attack weapon capabilities by identifying new technology through collaboration with industry, academia, and other government stakeholders and uniting specialized expertise.</p> <p>FY 2024 Base Plans: Continue to provide guidance to ensure munitions are as safe as practical to include; assessing, analyzing, and evaluating emerging and future development of technologies in our weapons. Enhance and evolve direct attack weapon capabilities by identifying new technology through collaboration with industry, academia, and other government stakeholders and uniting specialized expertise.</p> <p>FY 2024 OCO Plans: N/A</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Funding decrease because the FY2024 Bombs and Fuzes funding request was reduced by \$0.535 million to account for the availability of prior year execution balances.</p>					
<p>Title: Cockpit-Selectable Height-Of-Burst Sensor (C-HOBS)</p> <p>Description: DSU-43/B Cockpit-selectable Height-Of-Burst Sensor (C-HOBS). The C-HOBS will be a replacement for the legacy DSU-33D/B proximity sensor. C-HOBS will replace the single factory height-of-burst setting with the addition of multiple height-of-burst options selectable via both manual switches and a cockpit interface. These selection options allow flexibility during flight to address a wide array of targets. The C-HOBS is intended to interface with the weapon via the cockpit and provide a cockpit-selectable proximity function for general and special purpose weapons (to include Next Generation Area Attack Weapons, NGAAs).</p> <p>FY 2023 Plans:</p>	2.925	0.000	0.000	0.000	0.000

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
N/A					
FY 2024 Base Plans: N/A					
FY 2024 OCO Plans: N/A					
FY 2023 to FY 2024 Increase/Decrease Statement: N/A					
Accomplishments/Planned Programs Subtotals	3.851	1.134	0.966	0.000	0.966

C. Other Program Funding Summary (\$ in Millions)			FY 2024 Base	FY 2024 OCO	FY 2024 Total					FY 2028	Cost To Complete	Total Cost
Line Item	FY 2022	FY 2023				FY 2025	FY 2026	FY 2027				
• PAAF 01 Line Item 356120: <i>Fuzes</i>	20.795	102.918	109.562	-	109.562	131.919	136.838	134.160	157.675	Continuing	Continuing	
• PAAF 01 Line Item 352010: <i>Cartridges</i>	161.917	117.064	101.104	-	101.104	122.823	127.099	124.745	122.226	Continuing	Continuing	

Remarks

D. Acquisition Strategy

- Fuzes (including C-HOBS) is a continuing effort with most activities performed through contracted services.
- Munitions Materiel Handling Equipment (MMHE) project activities are performed in-house with limited technical and analysis contract support.
- Medium Caliber Ammunition project activities are performed in-house with technical and analysis contract support, organic government test support, and possible contracted services (small contracts).
- Insensitive Munitions project activities are performed in-house with limited technical and analysis contract support
- Emerging Technologies are innovative efforts with most activities performed through various contracted services such as OTA's and DOTC; a limited number of activities such as technical analysis and test are performed by organic resources and support contractors.

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

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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Emerging Technology/IM	Various	Various : Eglin AFB, FL	-	0.000	Mar 2022	0.173	Mar 2023	0.021	Mar 2024	-		0.021	Continuing	Continuing	-
MMHE - Prototypes	Various	Prototype Fabrication Shop : Eglin AFB, FL	-	0.368	Jan 2022	0.328	Jan 2023	0.370	Jan 2024	-		0.370	Continuing	Continuing	-
CHOBS - HW/SW	C/Various	Various : Eglin AFB, FL	-	0.000	Oct 2021	-		-		-		-	Continuing	Continuing	-
Subtotal			-	0.368		0.501		0.391		-		0.391	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
MMHE - Shipping/Supplies	Various	MMHE Program Office : Eglin AFB, FL	-	0.026	Nov 2021	0.042	Nov 2022	0.050	Nov 2023	-		0.050	Continuing	Continuing	-
DCA Civ Pay (653133)	Allot	AFLCMC/EBD : Eglin AFB, FL	-	0.168	Oct 2021	0.096	Oct 2022	-		-		-	Continuing	Continuing	-
Subtotal			-	0.194		0.138		0.050		-		0.050	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
CHOBS - Test and Evaluation	C/Various	Various : Various	-	2.925	Oct 2021	-		-		-		-	Continuing	Continuing	-
MMHE - Test Support	PO	96 TW : Eglin AFB, FL	-	0.000	Nov 2021	0.025	Nov 2022	0.025	Nov 2023	-		0.025	Continuing	Continuing	-
Emerging Technology - Test Wing	PO	96 TW : Eglin AFB, FL	-	0.022	Nov 2022	-		-		-		-	Continuing	Continuing	-
NGAAW- Test and Evaluation	PO	96 TW : Eglin AFB, FL	-	-		-		-		-		-	Continuing	Continuing	-

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

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604602F / Armament/Ordnance Development	Project (Number/Name) 653133 / Bombs & Fuzes
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Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			-	2.947		0.025		0.025		-		0.025	Continuing	Continuing	N/A

Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
IM and Emerging Technology- PMA	Various	Various : Eglin AFB, FL	-	0.060	Dec 2021	0.065	Dec 2022	0.068	Dec 2023	-		0.068	Continuing	Continuing	-
Medium Caliber - PMA	Various	Various : Eglin AFB, FL	-	0.100	Jun 2022	0.100	Jun 2023	0.100	Jun 2024	-		0.100	Continuing	Continuing	-
MMHE - PMA	Various	Various : Eglin AFB, FL	-	0.182	Mar 2022	0.305	Mar 2023	0.332	Jan 2024	-		0.332	Continuing	Continuing	-
CHOBS - PMA	Various	Various : Eglin AFB, FL	-	0.000	Oct 2021	-		-		-		-	Continuing	Continuing	-
Subtotal			-	0.342		0.470		0.500		-		0.500	Continuing	Continuing	N/A

	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals		-	3.851	1.134	0.966	-	0.966	Continuing	Continuing	N/A

Remarks
 Program Support Costs (PSC) Other Government Costs: Travel, Government Purchase Card (GPC), Program Support Personnel.

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

<i>Bombs and Fuzes</i>	
MMHE: design, prototype, test priority efforts	
IM and Emerging Technologies	
Medium Caliber Ammunition: Assess, refine, and develop	

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604602F / <i>Armament/Ordnance Development</i>	Project (Number/Name) 653133 / <i>Bombs & Fuzes</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Bombs and Fuzes</i>				
MMHE: design, prototype, test priority efforts	1	2022	4	2028
IM and Emerging Technologies	1	2022	4	2028
Medium Caliber Ammunition: Assess, refine, and develop	1	2022	4	2028

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Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604602F / <i>Armament/Ordnance Development</i>	Project (Number/Name) 655361 / <i>Stores-Aircraft Interface</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
655361: <i>Stores-Aircraft Interface</i>	-	4.970	4.145	4.952	0.000	4.952	5.610	5.751	5.869	6.082	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

655361: The Stores-Aircraft Interface conducts stores-aircraft interface upgrades and standards development to include the Universal Armament Interface (UAI). UAI is the Air Force's standardized interface for aircraft weapons and mission planning, and its use is mandated by SAF/AQ. The savings realized from this effort is on average 6 years of schedule and \$22M per aircraft/weapon combination. This is accomplished by enabling integration of weapons independent of aircraft Operational Flight Programs (OFP) cycles. UAI is currently implemented on the F-15E, F-16 Block 40/50 and European Participating Air Forces (EPAF) F-16 aircraft, F/A-18, Small Diameter Bomb (SDB) I and II, Joint Direct Attack Munition (JDAM)(all variants), Laser JDAM, Joint Air-to-Surface Stand-off Missile (JASSM), Enhanced Paveway II, Joint Mission Planning System (JMPS) and Precision Guided Munitions Planning Software (PGMPS). Planned implementations include Joint Strike Fighter (JSF/F-35), B-21, B-52, AC-130J, F-15EX, MQ-9, JASSM-Extended Range (JASSM-ER), Advanced Anti-Radiation Guided Missile - Extended Range (AARGM-ER), Stand-in Attack Weapon (SiAW), Long Range Anti-Ship Missile (LRASM), Grey Wolf, Combat Weapons Delivery Software (CWDS), Select Precision Effects At Range Capability 3 (SPEAR3), Joint Strike Missile (JSM), Next-Generation Open Mission Services (NOMS) for mission planning. The UAI program office is responsible for development and enhancement of the UAI standard to maintain technical currency, support to coalition/allied/joint interoperability efforts for weapons-platform interface, provision of certification tools, and implementation support to aircraft and weapons. The Stores-Aircraft Interface funding also supports innovation activities to include studies, analyses, requirements definition, and quick-reaction capability prototypes/demonstrations to accelerate planning for technology transition, technology insertion and future acquisition programs.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program's funds would be in addition to the civilian pay expenses budgeted in program element 0605831F. In FY22 0.195M was expended for civilian pay expenses in this program element, and in FY23 0.159M is forecasted for civilian pay expenses in this program element.

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

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Universal Armament Interface (UAI) Development	4.970	4.145	4.952	0.000	4.952
Description: Continue development and maintenance of the Air Force's mandated aircraft/weapon interface, to include UAI Mission Planning and Launch Acceptability Region (LAR) components.					
FY 2023 Plans: Continue development and fielding of UAI software improvements including updates to enhance and standardize geospatial zones implementation, Common Flexible Weapon (CFW) ICD incorporation, GPS and M-code improvements, and smart carriage system interactions. In addition, the program will continue to develop the					

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604602F / <i>Armament/Ordnance Development</i>	Project (Number/Name) 655361 / <i>Stores-Aircraft Interface</i>

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

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<p>Mission Planning UAI Common Component with the transition from the Joint Mission Planning System (JMPS) compatibility to the Navy Open Mission Systems (NOMS) operating environment. UAI updates will include continued development of the Launch Acceptability Region (LAR) tool-set required by weapon systems and mission planning developers standardized for generation of weapon performance truth data, engagement envelopes, training tools, and support way-point flying munitions into Platform-Store/Mission Planning. FY23 includes funding for ongoing air-to-ground integration support across USAF, USN, and Army customers, including development support for advanced carriage systems as store quantities and new management capabilities increase, hypersonic weapons, and certification tool software updates. Support working groups, technical meetings and workshops, risk reduction assessments, common mission planning, and system-specific implementations of UAI. Maintain and logistically support existing certification tools to meet current and future user system integration lab test certification needs. These tools are shared among aircraft and weapon programs to reduce time and cost for UAI integration efforts. Support international efforts including but not limited to Joint Strike Missile (JSM) and Select Precision Effects At Range - Capability 3 (SPEAR3), both of which are integrating on the F-35 using UAI Platform Store Interface Control Document Rev 05, and implementing the multinational Memorandum of Understanding.</p> <p><i>FY 2024 Base Plans:</i> Continue development and fielding of UAI software improvements including updates to enhance and standardize geospatial zones implementation, GPS and M-code improvements, smart carriage system interactions, and incorporation of the Common Flexible Weapon (CFW) Interface. In addition, the program will continue to develop and field the Mission Planning UAI Common Component legacy and new capabilities for implementation in the Next-Generation Open Mission Services (NOMS) mission planning operating environment. Backward compatibility with the Joint Mission Planning System (JMPS) will be maintained. UAI updates will include continued development of the Launch Acceptability Region (LAR) tool-set required by weapon systems and mission planning developers as a common and standardized method for generating weapon performance truth data, engagement envelopes, training tools, and support of way-point flying munitions. These tools and their products will be incorporated in the Platform Store and Mission Planning ICDs and associated products. FY24 includes funding for ongoing air-to-ground integration support across USAF, USN, and Army customers, including development support for advanced carriage systems as store quantities and management capabilities increase, hypersonic weapons, network enabled weapons, and certification tool software updates. Support will continue for working groups, technical meetings and workshops, risk reduction assessments, common mission planning, and system-specific implementations of UAI. Maintenance and logistic support for existing certification tools to meet current and future user system integration lab test certification needs will continue.</p>					

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604602F / <i>Armament/Ordnance Development</i>	Project (Number/Name) 655361 / <i>Stores-Aircraft Interface</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<p>These tools are shared among aircraft and weapon programs to reduce time and cost for UAI integration efforts. UAI will continue to support international efforts including but not limited to Joint Strike Missile (JSM) and Select Precision Effects At Range - Capability 3 (SPEAR3), both of which are integrating on the F-35 using UAI Platform Store Interface Control Document Rev 05 and implementing the multinational Memorandum of Understanding.</p> <p>FY 2024 OCO Plans: n/a</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Funding increased because of inflation adjustment; also reflects the FY2023 Armament/Ordnance Development request was reduced by \$1.500M based on the availability of prior year funding.</p>					
Accomplishments/Planned Programs Subtotals	4.970	4.145	4.952	0.000	4.952

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

N/A

Remarks

Program Support Costs (PSC) Other Government Costs: Travel, Government Purchase Card (GPC), Program Support Personnel.

D. Acquisition Strategy

In December 2004, under the authority of a class Justification and Approval (J&A), the UAI program office awarded individual Cost Plus Fixed Fee (CPFF) contracts to Boeing, Lockheed Martin, Northrop Grumman, and Raytheon. Each Original Equipment Manufacturer is responsible for a different piece of the total UAI requirement based on its product-specific (platform/weapon) expertise. During FY10, the original contracts expired. Under the authority of a class J&A, Cost Plus Incentive Fee (CPIF) contracts were awarded to the four UAI vendors in August 2010. Follow-on period of performance was awarded in March 2014 for 16 months to better align future contract awards with funding through the Future Years Defense Program. The period of performance was extended to 1 November 2015 to allow immediate start of the effort on F-35/JSF request for changes. A new J&A was approved in January 2015 for the follow-on sole-source contracts to the original equipment manufacturers (OEMs). These new sole-source contracts were awarded in November 2015 and expired in November 2019. A new J&A was signed in December 2018, prior to contract expiration, and four new five-year sole-source contracts (CPFF) were awarded in November 2019. A new Justification and Approval (J&A) will be pursued to support award of follow-on sole-source contracts in November 2024 (1Q FY25).

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

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604602F / Armament/Ordnance Development	Project (Number/Name) 655361 / Stores-Aircraft Interface
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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Interface Control Document (ICD) Development/Updates/Maintenance	SS/ Various	Boeing Northrop Grumman Lockheed Martin Raytheon : Various	-	4.624	Nov 2021	3.804	Nov 2022	4.715	Nov 2023	-		4.715	Continuing	Continuing	-
Subtotal			-	4.624		3.804		4.715		-		4.715	Continuing	Continuing	N/A

Remarks
New 5 year Follow-on contract was awarded in November 2019.

Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
DCA Civ Pay (655361)	Allot	AFLCMC/WAX : Wright-Patterson AFB, OH	-	0.195	Oct 2021	0.159	Oct 2022	-		-		-	Continuing	Continuing	-
Subtotal			-	0.195		0.159		-		-		-	Continuing	Continuing	N/A

Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
A&AS Contractor Support	Various	Various : Various	-	0.140	Jun 2022	0.145	Jun 2023	0.177	Jun 2024	-		0.177	Continuing	Continuing	-
Program Office Travel	C/CPAF	Not specified. : TBD	-	0.011		0.037		0.060		-		0.060	Continuing	Continuing	-
Subtotal			-	0.151		0.182		0.237		-		0.237	Continuing	Continuing	N/A

Remarks
DCS/Sumaria Contractor provides support to the Program Office for financial services.

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Air Force		Date: March 2023
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	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
Stores-Aircraft Interface																												
Governance (Super Joint Interface Control Working Group)																												
SJICWG Meeting - CY 2nd quarter 2023 Update																												
SJICWG Meeting - CY 4th quarter 2023 Update																												
SJICWG Meeting - CY 1st quarter 2024 Update																												
SJICWG Meeting - CY 3rd quarter 2024 Update																												
SJICWG Meeting - CY 3rd quarter 2025 Update																												
SJICWG Meeting - CY 2nd quarter 2026 Update																												
SJICWG Meeting - CY 2nd quarter 2027 Update																												
SJICWG Meeting - CY 4th quarter 2027 Update																												
SJICWG Meeting - CY 3rd quarter 2028 Update																												
Platform-Store Interface Control Document (PS ICD) Change Notices 3rd quarter 2024																												
Platform-Store Interface Control Document (PS ICD) Change Notices 1st quarter 2025																												
Platform-Store Interface Control Document (PS ICD) Change Notices 4th quarter 2025																												

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

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	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
Platform-Store Interface Control Document (PS ICD) Change Notices 2nd quarter 2026																												
Platform-Store Interface Control Document (PS ICD) Change Notices 4th quarter 2027																												
Platform-Store Interface Control Document (PS-ICD) Change Notices 3rd quarter 2028																												
Platform-Store Interface Control Document (PS ICD) Change Notices - GeoZone Conops 2nd quarter 2023																												
Platform-Store Interface Control Document (PS ICD) Change Notices - GeoZone Conops 1st quarter 2024																												
Platform-Store Interface Control Document (PS ICD) Change Notices - GeoZone Conops 2nd quarter 2025																												
Platform-Store Interface Control Document (PS ICD) Change Notices - Advanced Carriage Systems																												
Platform-Store Interface Control Document (PS ICD) Rev 06																												
Platform-Store Interface Control Document (PS ICD) Change Notices - M-Code Update																												
Common Flexible Weapon (CFW) Interface Control Document (ICD) Incorporation																												
Certification Tools (CTs) Dev/ Update																												
System Integration Lab (SIL) Certification Tool (CT) software 2nd quarter 2023 updates																												
System Integration Lab (SIL) Certification Tool (CT) software 4th quarter 2023 updates																												

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

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604602F / <i>Armament/Ordnance Development</i>	Project (Number/Name) 655361 / <i>Stores-Aircraft Interface</i>
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	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 Integration Lab (SIL) Certification Tool (CT) software 2nd quarter 2024 updates										■																		
System Integration Lab (SIL) Certification Tool (CT) software 1st quarter 2025 updates														■														
System Integration Lab (SIL) Certification Tool (CT) software 4th quarter 2025 updates																■												
System Integration Lab (SIL) Certification Tool (CT) software 2nd quarter 2026 updates																				■								
System Integration Lab (SIL) Certification Tool (CT) software 1st quarter 2027 updates																												■
System Integration Lab (SIL) Certification Tool (CT) software 4th quarter 2027 updates																												■
System Integration Lab (SIL) Certification Tool (CT) software 3rd quarter 2028 updates																												■
Mission Planning CT software 3rd quarter 2023 updates								■																				
Mission Planning CT software 1st quarter 2024 updates												■																
Mission Planning CT software 1st quarter 2025 updates																■												
Mission Planning CT software 2nd quarter 2026 updates																				■								
Mission Planning CT software 2nd quarter 2027 updates																												■
Mission Planning CT software 3rd quarter 2028 updates																												■
UAI (Mission Planning) Common Component (CC)																												
CC software 4th quarter 2023 updates								■																				

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

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604602F / <i>Armament/Ordnance Development</i>	Project (Number/Name) 655361 / <i>Stores-Aircraft Interface</i>
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	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

CC software 3rd quarter 2024 updates	█																											
CC software 2nd quarter 2025 updates	█																											
CC software 2nd quarter 2026 updates	█																											
CC software 1st quarter 2027 updates	█																											
CC software 1st quarter 2028 updates	█																											
Weapon Sustainment/Regression Efforts: JDAM, JASSM-ER, SDB I+II																												
A/C Sustainment/Regression Efforts: F-16 Blk 40/50, F-15E																												
Weapon Dev: SiAW, JSM, SPEAR3, LRASM, AARGM-ER, JAGM-F, hypersonics, advanced carriage systems, CFW, Grey Wolf																												
A/C Dev: F-16 Foreign Military Sales, F-35, B-21, B-1, A-10, F-22, F-18, MQ-9, F-15EX, MQ-IC, AC-130J, B-52																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604602F / <i>Armament/Ordnance Development</i>	Project (Number/Name) 655361 / <i>Stores-Aircraft Interface</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Stores-Aircraft Interface				
Governance (Super Joint Interface Control Working Group)	1	2022	4	2028
SJICWG Meeting - CY 2nd quarter 2023 Update	2	2023	2	2023
SJICWG Meeting - CY 4th quarter 2023 Update	4	2023	4	2023
SJICWG Meeting - CY 1st quarter 2024 Update	1	2024	1	2024
SJICWG Meeting - CY 3rd quarter 2024 Update	3	2024	3	2024
SJICWG Meeting - CY 3rd quarter 2025 Update	3	2025	3	2025
SJICWG Meeting - CY 2nd quarter 2026 Update	2	2026	2	2026
SJICWG Meeting - CY 2nd quarter 2027 Update	2	2027	2	2027
SJICWG Meeting - CY 4th quarter 2027 Update	4	2027	4	2027
SJICWG Meeting - CY 3rd quarter 2028 Update	3	2028	3	2028
Platform-Store Interface Control Document (PS ICD) Change Notices 3rd quarter 2024	3	2024	3	2024
Platform-Store Interface Control Document (PS ICD) Change Notices 1st quarter 2025	1	2025	1	2025
Platform-Store Interface Control Document (PS ICD) Change Notices 4th quarter 2025	4	2025	4	2025
Platform-Store Interface Control Document (PS ICD) Change Notices 2nd quarter 2026	2	2026	2	2026
Platform-Store Interface Control Document (PS ICD) Change Notices 4th quarter 2027	4	2027	4	2027
Platform-Store Interface Control Document (PS-ICD) Change Notices 3rd quarter 2028	3	2028	3	2028
Platform-Store Interface Control Document (PS ICD) Change Notices - GeoZone Conops 2nd quarter 2023	2	2023	2	2023
Platform-Store Interface Control Document (PS ICD) Change Notices - GeoZone Conops 1st quarter 2024	1	2024	1	2024
Platform-Store Interface Control Document (PS ICD) Change Notices - GeoZone Conops 2nd quarter 2025	2	2025	2	2025

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

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604602F / <i>Armament/Ordnance Development</i>	Project (Number/Name) 655361 / <i>Stores-Aircraft Interface</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Platform-Store Interface Control Document (PS ICD) Change Notices - Advanced Carriage Systems	2	2023	2	2023
Platform-Store Interface Control Document (PS ICD) Rev 06	2	2023	2	2023
Platform-Store Interface Control Document (PS ICD) Change Notices - M-Code Update	1	2024	1	2024
Common Flexible Weapon (CFW) Interface Control Document (ICD) Incorporation	1	2023	2	2025
Certification Tools (CTs) Dev/ Update	1	2022	4	2028
System Integration Lab (SIL) Certification Tool (CT) software 2nd quarter 2023 updates	2	2023	2	2023
System Integration Lab (SIL) Certification Tool (CT) software 4th quarter 2023 updates	4	2023	4	2023
System Integration Lab (SIL) Certification Tool (CT) software 2nd quarter 2024 updates	2	2024	2	2024
System Integration Lab (SIL) Certification Tool (CT) software 1st quarter 2025 updates	1	2025	1	2025
System Integration Lab (SIL) Certification Tool (CT) software 4th quarter 2025 updates	4	2025	4	2025
System Integration Lab (SIL) Certification Tool (CT) software 2nd quarter 2026 updates	2	2026	2	2026
System Integration Lab (SIL) Certification Tool (CT) software 1st quarter 2027 updates	1	2027	1	2027
System Integration Lab (SIL) Certification Tool (CT) software 4th quarter 2027 updates	4	2027	4	2027
System Integration Lab (SIL) Certification Tool (CT) software 3rd quarter 2028 updates	3	2028	3	2028
Mission Planning CT software 3rd quarter 2023 updates	3	2023	3	2023
Mission Planning CT software 1st quarter 2024 updates	1	2024	1	2024
Mission Planning CT software 1st quarter 2025 updates	1	2025	1	2025
Mission Planning CT software 2nd quarter 2026 updates	2	2026	2	2026
Mission Planning CT software 2nd quarter 2027 updates	2	2027	2	2027
Mission Planning CT software 3rd quarter 2028 updates	3	2028	3	2028
UAI (Mission Planning) Common Component (CC)	1	2022	4	2028
CC software 4th quarter 2023 updates	4	2023	4	2023

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

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604602F / <i>Armament/Ordnance Development</i>	Project (Number/Name) 655361 / <i>Stores-Aircraft Interface</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
CC software 3rd quarter 2024 updates	3	2024	3	2024
CC software 2nd quarter 2025 updates	2	2025	2	2025
CC software 2nd quarter 2026 updates	2	2026	2	2026
CC software 1st quarter 2027 updates	1	2027	1	2027
CC software 1st quarter 2028 updates	1	2028	1	2028
Weapon Sustainment/Regression Efforts: JDAM, JASSM-ER, SDB I+II	1	2022	4	2028
A/C Sustainment/Regression Efforts: F-16 Blk 40/50, F-15E	1	2022	4	2028
Weapon Dev: SiAW, JSM, SPEAR3, LRASM, AARGM-ER, JAGM-F, hypersonics, advanced carriage systems, CFW, Grey Wolf	1	2022	4	2028
A/C Dev: F-16 Foreign Military Sales, F-35, B-21, B-1, A-10, F-22, F-18, MQ-9, F-15EX, MQ-IC, AC-130J, B-52	1	2022	4	2028