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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2025 Air Force **Date:** March 2024

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0207590F / <i>Seek Eagle</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	32.794	33.478	34.985	0.000	34.985	35.861	36.596	37.921	38.670	Continuing	Continuing
674037: <i>SEEK EAGLE Certifications</i>	-	32.794	33.478	34.985	0.000	34.985	35.861	36.596	37.921	38.670	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The Air Force SEEK EAGLE Office (AFSEO) is designated by the Assistant Secretary of the Air Force (Acquisition, Technology, and Logistics) as the center of expertise for aircraft-store compatibility activities and as the primary source of technical analysis and test support, as well as the central data repository, for the SEEK EAGLE process. The SEEK EAGLE process is a rigorous analysis of many factors to assure the safe and acceptable carriage and release (employment and jettison), safe escape, and ballistics accuracy of all stores on Air Force and foreign military sales aircraft. Thus, the AFSEO's mission as an accelerator is to ensure that every aircraft type is capable of employing the weapons and stores needed to meet Combatant Commander requirements, directly supporting the Secretary of the Air Force's (SECAF) Operational Imperatives (OI), and Cross-cutting Operational Enablers (COE).

The Air Force operates a variety of combat and other aircraft that carry numerous and varied stores: bombs, missiles, rockets, fuel tanks, cargo pods, targeting pods, electronic countermeasures pods, etc. Stores are carried in many different loading combinations determined by operational and training scenarios, missions, tactics, and weapon development programs. Additionally, aircraft-store configuration (carriage and employment) requirements change as operational plans and tactics are updated and/or as new stores are developed and fielded. Aircraft program managers must provide SEEK EAGLE certifications for all aircraft-store configurations within their user-established carriage and employment parameters before they may be used for operations, test, or training. The AFSEO completes flight clearance and certification recommendations through any combination of engineering analysis, wind tunnel testing, modeling and simulation, and ground/flight test and evaluation. The SEEK EAGLE process encompasses eight engineering disciplines: Fit and Function, Flutter, Aircraft and Store Structural Integrity, Stability and Control, Electromagnetic Compatibility/Interference (EMC/EMI), Separations, Ballistics, and Safe Escape.

In support of certification, the AFSEO recommends approximately 1000 aircraft-store combinations for flight each year through engineering analysis and testing. The AFSEO certification portfolio includes the Next Generation Air Dominance (NGAD) Family of Systems and B-21, as well as the following Mission Design Series aircraft: A-10, B-1, B-2, B-52, F-15C/D/E/EX, F-16, QF-16, F-22, F-35, KC-135, WC-130, MC-130H, HH-60W, MH-139A, MQ-9, T-7A, AT-6, and more. Integrated solutions for combat delivery mission planning problems are developed and provided to combat forces via Combat Weapons Delivery Software (CWDS) and Joint Safe Escape Analysis Solution (JSEAS) software. The SEEK EAGLE Office also works in coordination with the Air Force Safety Center to provide Hazards of Electromagnetic Radiation to Ordnance (HERO) analysis and certification recommendations for ordnance systems containing electro-explosive devices. Additionally, the AFSEO is responsible for incorporating new and emerging technologies into the SEEK EAGLE process to make certification more efficient in support of rapid acquisition timelines, as well as resourcing for the sustainment of a viable Air Force aircraft-store certification capability.

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SEEK EAGLE funds are budgeted to support certification testing and analysis for new and inventory stores including, but not limited to: Small Diameter Bomb (SDB) I and II, Laser Joint Direct Attack Munitions (LJDAM), Joint Air-to-Surface Standoff Missile (JASSM), Long-Range Anti-Ship Missile (LRASM), Advanced Medium Range Air-to-Air Missile (AMRAAM), Miniature Air-Launched Decoy (MALD), BRU-57 (Smart Bomb Rack), BRU-61 (SDB Bomb Rack), Advanced Precision Kill Weapon System (APKWS), Sniper Targeting Pod with video data link, LITENING Targeting Pod with video data link, B61-12 nuclear free-fall weapon, penetrator warhead upgrades, practice bombs, electronic warfare pods, reconnaissance pods, and aircraft instrumentation pods. SEEK EAGLE funds also support certification of other inventory stores on Combat Air Forces (CAF) and Special Operations Command (SOCOM) aircraft. In addition, these funds further support capability development and weapons certification efforts required by Air Combat Command (ACC) to achieve Full Operational Capability (FOC) for the F-35A. Many of these weapons certification efforts are directly involved in SECAF OI-3, Moving Target Engagement, and all of them contribute to COE-1, Munitions. Additionally, many of the pods and other stores these funds support contribute directly to COE-2, Electromagnetic Spectrum.

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 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY23 0.00 was expended for civilian pay expenses in this program element, and in FY24 0.00 is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Previous President's Budget	32.853	33.478	34.924	0.000	34.924
Current President's Budget	32.794	33.478	34.985	0.000	34.985
Total Adjustments	-0.059	0.000	0.061	0.000	0.061
• 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	0.000	0.000			
• Other Adjustments	-0.059	0.000	0.061	0.000	0.061

**Change Summary Explanation**

No significant changes

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<b>Title:</b> Aircraft-Store Certification	0.838	2.423	3.894

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<p><b>Description:</b> Evaluates aircraft-store compatibility through analysis of ground and flight test data. Supports procurement of test assets, such as instrumented weapons, and includes end-to-end tracking of MAJCOM requirements from user request to tech data fielding and operational flight program (OFF) updates. Provides certification recommendations to airworthiness authorities.</p> <p><b>FY 2024 Plans:</b> Provide for USAF Air-to-Air and Air-to-Ground Munitions certification efforts, including towed decoys, ECM pods, chaff/flare countermeasures certification efforts, Airborne Instrumentation Systems pods, fuel tanks, and travel pods certification efforts. Provide CWDS upgrade support.</p> <p><b>FY 2025 Plans:</b> Continue to provide for USAF Air-to-Air and Air-to-Ground Munitions certification efforts, including towed decoys, ECM pods, chaff/flare countermeasures certification efforts, Airborne Instrumentation Systems pods, fuel tanks, and travel pods certification efforts. Continue CWDS upgrade support.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Funding increase due to increase in F-35 requirements and associated prime contractor support and materials.</p>				
<p><b>Title:</b> Operations Baseline and Mission Support</p> <p><b>Description:</b> Supports the ability to rapidly meet emerging warfighter needs for global operations and other ongoing world-wide operations through sustainment of a viable Air Force aircraft-store certification capability.</p> <p><b>FY 2024 Plans:</b> Support increased Air Force munition and aircraft capability requirements that drive infrastructure and resource capacity needs within the SEEK EAGLE enterprise.</p> <p><b>FY 2025 Plans:</b> Continue to support increased Air Force munition and aircraft capability requirements that drive infrastructure and resource capacity needs within the SEEK EAGLE enterprise.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Funding increase due to inflation adjustments.</p>		19.743	22.063	22.843
<p><b>Title:</b> Advanced Capability Development</p> <p><b>Description:</b> Provides resources to increase the Air Force SEEK EAGLE OFFICE (AFSEO) organic capabilities, to support advanced weapons such as hypersonic weapons and other classified weapons programs, as well as investing in the development of advanced modeling and analytical tools to make the SEEK EAGLE certification process more efficient in support of</p>		8.656	2.986	3.458

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2025 Air Force		<b>Date:</b> March 2024		
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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<p>rapid acquisition timelines. These resources include, but are not limited to: artificial intelligence, modeling and simulation enhancements, wind tunnel model development, automated tool enhancements, information technology enhancements, and facility improvements.</p> <p><b>FY 2024 Plans:</b> Continue development of the F-35 wind tunnel model, and support investments in other advanced modeling and simulation, automated tool and information technology enhancements. Initiate planning and coordination of Israeli Air Force Project Arrangement for F-35 weapons certification.</p> <p><b>FY 2025 Plans:</b> Complete development of the F-35 wind tunnel model, commence F-35 weapon certification partnership with Israeli Air Force, and support investments in other advanced modeling and simulation, automated tool and information technology enhancements.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Funding increase due to execution of a new Project Arrangement with the Israeli Air Force to accelerate F-35 weapons certifications.</p>				
<p><b>Title:</b> Tools, Equipment, and Capability Sustainment</p> <p><b>Description:</b> Supports development and sustainment of state-of-the-art engineering and business tools to support the SEEK EAGLE enterprise. Funding resources are required for operational management of existing information and technology infrastructure, hardware, software, and equipment.</p> <p><b>FY 2024 Plans:</b> Develop and sustain of state-of-the-art engineering and business tools to advance the SEEK EAGLE enterprise.</p> <p><b>FY 2025 Plans:</b> Continue to develop and sustain state-of-the-art engineering and business tools to support the SEEK EAGLE enterprise.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Funding decrease due to re-phasing of tooling requirements</p>		3.557	6.006	4.790
<b>Accomplishments/Planned Programs Subtotals</b>		32.794	33.478	34.985
<b>D. Other Program Funding Summary (\$ in Millions)</b>				
N/A				
<b>Remarks</b>				

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0207590F / <i>Seek Eagle</i>	

**E. Acquisition Strategy**

The SEEK EAGLE program is not an acquisition program in itself; instead it supports other acquisition programs, for both aircraft and weapons or other stores. For initial aircraft-weapons integration, the aircraft or weapon program office is responsible for budgeting and providing the test assets to the Air Force SEEK EAGLE Office (AFSEO) for the store certification requirements. For post-integration certification requirements, AFSEO funds are used to obtain the non-inventory test assets. In addition to the above highlights, budgeting responsibilities for AFSEO are delineated in Air Force Instruction 63-101/20-101, paragraph 5.4.22.1.3, dated 30 June 2020.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207590F / <i>Seek Eagle</i>	<b>Project (Number/Name)</b> 674037 / <i>SEEK EAGLE Certifications</i>
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<b>Product Development (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Advanced Data Analytics - Artificial Intelligence (AI)	SS/FP	TAMR : Cambridge, MA	-	2.415	Feb 2023	-		-		-		-	Continuing	Continuing	-
AFSEO Mission and Planning Support (SEMATS)	C/CPFF	ERC : Ft. Walton Beach, FL	-	13.426	Oct 2022	13.999	Nov 2023	13.012	Oct 2024	-		13.012	Continuing	Continuing	-
F-35 Capabilities	C/CPFF	Lockheed Martin : Marietta, GA	-	0.288	Feb 2023	0.195	Jan 2024	0.318	Jan 2025	-		0.318	Continuing	Continuing	-
Multiple Fighter and Weapon Capability Support	C/CPFF	Multiple : Multiple	-	0.036	Mar 2023	0.031	Mar 2024	0.075	Mar 2025	-		0.075	Continuing	Continuing	-
F-16 Aero Sustainment	C/CPFF	Lockheed Martin : Fort Worth, TX	-	0.000	Dec 2022	0.167	Oct 2023	0.176	Dec 2024	-		0.176	Continuing	Continuing	-
<b>Subtotal</b>			-	16.165		14.392		13.581		-		13.581	Continuing	Continuing	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
Flight Tests and Aircraft/Store Compatibility Analysis	PO	96th Test Wing : Eglin AFB, FL	-	14.130	Oct 2022	15.984	Oct 2023	19.612	Oct 2024	-		19.612	Continuing	Continuing	-
Wind Tunnel Model/Design and Testing	PO	Arnold Engineering Dev Complex : Arnold AFB, TN	-	1.450	Mar 2023	1.742	Jan 2024	1.107	Jan 2025	-		1.107	Continuing	Continuing	-
<b>Subtotal</b>			-	15.580		17.726		20.719		-		20.719	Continuing	Continuing	N/A

<b>Management Services (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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 Support (TMAS)	C/CPFF	AFTC : Eglin AFB, FL	-	0.267	Oct 2022	0.111	Oct 2023	0.156	Oct 2024	-		0.156	Continuing	Continuing	-
Management Support	Various	Various : Various, FL	-	0.782	Oct 2022	1.249	Oct 2023	0.529	Oct 2024	-		0.529	Continuing	Continuing	-



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**Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207590F / <i>Seek Eagle</i>	<b>Project (Number/Name)</b> 674037 / <i>SEEK EAGLE Certifications</i>
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FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
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

<b>SEEK EAGLE</b>	
Aircraft-Store Certification	
Operations Baseline and Mission Support	
Advanced Capability Development	
Tools, Equipment, and Capability Sustainment	

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2025 Air Force **Date:** March 2024

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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>SEEK EAGLE</b>				
Aircraft-Store Certification	1	2023	4	2029
Operations Baseline and Mission Support	1	2023	4	2029
Advanced Capability Development	1	2023	4	2029
Tools, Equipment, and Capability Sustainment	1	2023	4	2029

**Note**

Note: The SEEK EAGLE program supports both production stores on production aircraft and the planning for future acquisition program milestones without an anticipated end date. Current warfighter requirements trigger the SEEK EAGLE process for requested aircraft-store configurations, and work is completed in accordance with designated user priorities established through the SEEK EAGLE Prioritization List process.