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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 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0305220F / RQ-4 UAV
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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	0.000	82.355	68.801	1.242	0.000	1.242	12.570	0.000	0.000	0.000	0.000	164.968
675149: <i>RQ-4 Capability Enhancements</i>	0.000	82.355	68.801	1.242	0.000	1.242	12.570	0.000	0.000	0.000	0.000	164.968

Program MDAP/MAIS Code: 252

A. Mission Description and Budget Item Justification

The RQ-4B Global Hawk is a high-altitude, long-endurance, all-weather, day/night ISR platform delivering SAR-based GMTI capabilities to the warfighter.

To win high-end conflict, the future force design must deliver ISR capabilities and concepts of operation that can survive against peer/near-peer threats in highly contested environments. To accomplish this, in FY24 the USAF will focus its investment efforts on maximizing the Block 40's value to the DoD until its planned divestiture in FY27. By FY27, space-based capabilities and CONOPS will be in place to meet Combatant Commanders' needs in accordance with the National Defense Strategy.

When judged feasible and affordable, this program will participate in the development, testing, and implementation of international standards to enhance joint, allied, and coalition interoperability. Studies and activities may be initiated to further explore the utility of incorporating the emerging architectural standards such as the USAF Unmanned Aerial Systems (UAS) Command and Control Initiative (UCI) or the DoD's Unmanned Control Segment standards (UCS) and Open Mission Systems (OMS).

RQ-4 UAV 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 programs funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY22 5.991M was expended for civilian pay expenses in this program element, and in FY23 5.8M is forecasted for civilian pay expenses in this program element. FY24 5.8M is forecasted for civilian pay expenses in this program element.

The FY24 funding request was reduced by 12.678M to account for the availability of prior year execution balances.

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.

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B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	83.124	68.801	68.208	0.000	68.208
Current President's Budget	82.355	68.801	1.242	0.000	1.242
Total Adjustments	-0.769	0.000	-66.966	0.000	-66.966
• 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	-0.769	0.000	-66.966	0.000	-66.966

Change Summary Explanation

FY22 0.769M change due to upward adjustment.

FY24 funding request reduced by 12.678M to account for the availability of prior year execution balances. These funds were available due to the termination of Ground Segment Modernization Program.

FY24 54.288M decrease due to maturing divestment profile and to support higher AF priorities.

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

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0305220F / RQ-4 UAV	Project (Number/Name) 675149 / RQ-4 Capability Enhancements
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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
675149: RQ-4 Capability Enhancements	0.000	82.355	68.801	1.242	0.000	1.242	12.570	0.000	0.000	0.000	0.000	164.968
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

Funding in this project supports design, development, integration, and testing of capabilities needed to maintain Block 40 capabilities and maximize system performance until divestment, including reliability and maintainability improvements. Funding also supports continuing aircraft airframe updates, aircraft operations surety, cybersecurity, information assurance, and mission critical repair of Government Furnished Equipment (GFE).

This project will include systems engineering/program management, configuration and data management, test and evaluation, management services, Deficiency Report (DR)/Military Intelligence Program (MIP) Investigations, studies and analysis and fielding support for RQ-4 aircraft and Ground Segment/Communication Systems while remaining compliant with DoD cybersecurity network requirements to operate in the DoD Information Network (DoDIN). This reflects contracting/acquisition strategy for these common elements within the Global Hawk program to provide efficiencies.

Activities include required airspace, interoperability and communication updates, periodic Operational Flight Program releases, airframe and software upgrades, sensor enhancements including data distribution and storage, enhancements to support multi-domain contested environment operations, Authority to Operate surety enhancements, and studies and analysis supporting system maintenance and divestment.

The RQ-4 program will maintain interoperability for RQ-4 aircraft with system of systems partners and continue to incorporate applicable synergies with other platforms, other RPA weapon systems, and Processing, Exploitation & Dissemination (PED) elements. The networking capability for intelligence dissemination is required to provide the data transport interface between the Weapons System, Operations Centers, and external Intelligence Community customers.

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 FY22 5.991M was expended for civilian pay expenses in this program element, and in FY23 5.8M is forecasted for civilian pay expenses in this program element. FY24 5.8M is forecasted for civilian pay expenses in this program element.

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

	FY 2022	FY 2023	FY 2024
Title: RQ-4 Ground Segment Modernization Program (GSMP)	42.500	0.000	0.000
Description: GSMP resolves fleet grounding DMS and obsolescence issues associated with ground segment equipment and provides critical warfighter capabilities such as building-based multi-aircraft control. It will also enhance interoperability data dissemination as well as provide training capability.			

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Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0305220F / RQ-4 UAV	Project (Number/Name) 675149 / RQ-4 Capability Enhancements

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
<p>FY 2023 Plans: Program was terminated in FY22</p> <p>FY 2024 Plans: N/A</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Decrease due to termination in FY22</p>			
<p>Title: RQ-4 Infrastructure</p> <p>Description: RQ-4 Infrastructure includes system engineering, program management, and logistics support for all RQ-4 projects as well as safety of flight-related Operational Flight Program (OFP) updates and releases and Other Government Costs (OGC).</p> <p>FY 2023 Plans: -Supporting termination activities of GSMP. -Supporting Enterprise Services/Flight Test Services and Comm System Upgrades to aircraft and ground stations.</p> <p>FY 2024 Plans: -Will support engineering efforts required to maintain RQ-4 operations.</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Funding decreased to reflect maturing divestment profile and to support higher Air Force priorities.</p>	39.855	68.801	1.242
Accomplishments/Planned Programs Subtotals	82.355	68.801	1.242

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2022	FY 2023	FY 2024	FY 2024	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Cost To	Total Cost
			Base	OCO	Total					Complete	
• APAF 05 Line Item HAWK00: RQ-4 Mods	3.205	1.286	0.000	-	0.000	0.000	0.000	0.000	-	0.000	4.491
• APAF 07 Line Item RQ4DIS: RQ-4 Post Production Support	24.592	40.845	0.000	-	0.000	0.000	-	-	-	0.000	65.437

Remarks

D. Acquisition Strategy

The RQ-4 program uses an evolutionary acquisition strategy to provide the warfighter with a near-term combat capability with increased time-phased capability improvements as technology and risk achieve satisfactory levels. Northrop Grumman Corporation is the prime contractor developing and delivering the system to the

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warfighter. A suite of contract vehicles is used: primarily, Indefinite Delivery, Indefinite Quantity (IDIQ) contracts that cover development, system upgrade, production, retrofit, fielding, and sustainment efforts. The acquisition strategy will focus on supporting the Block 40 fleet until divestiture in FY27, including contract closeout actions.

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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			
RQ-4 Ground Segment Modernization Program (GSMP)	SS/CPIF	Northrop Grumman Integrated Systems : San Diego, CA	0.000	36.500	Oct 2021	-		-		-		-	Continuing	Continuing	414.785
RQ-4 Infrastructure	Various	Various : Various	0.000	24.265	Oct 2021	45.011	Oct 2022	-		-		-	Continuing	Continuing	203.878
Subtotal			0.000	60.765		45.011		-		-		-	Continuing	Continuing	N/A

Remarks
 Target Value of the RQ-4 EMD, IDIQ, Infrastructure and EPIC Contracts are not segregated by Budget Project Number.
 Target Value of GSMP contract includes \$43.414M of funding in Budget Project Number 675147, RQ-4 Grnd Segment/Comm System

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			
Non Prime Technical Support	Various	Various : Dayton, OH	0.000	1.290	Jan 2022	1.290	Jan 2023	-		-		-	Continuing	Continuing	-
Direct Cite Authority Civilian Pay	TBD	Not specified. : TBD	0.000	6.000	Jan 2022	6.000	Jan 2023	-		-		-	0.000	12.000	-
Subtotal			0.000	7.290		7.290		-		-		-	Continuing	Continuing	N/A

Remarks
 Target Value of the RQ-4 effort is not segregated by Budget Project Number.

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			
Flight Test & Evaluation	MIPR	412 TW : Edwards AFB, CA	0.000	10.000	Oct 2021	10.000	Oct 2022	-		-		-	Continuing	Continuing	-
Subtotal			0.000	10.000		10.000		-		-		-	Continuing	Continuing	N/A

Remarks
 Target Value of the RQ-4 effort is not segregated by Budget Project Number.

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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			
PSC: A&AS	Various	Various : Dayton, OH	0.000	2.300	Oct 2021	3.500	Oct 2022	-		-		-	Continuing	Continuing	-
PSC: Other Government Costs	Various	Various : Dayton, OH	0.000	2.000	Oct 2021	3.000	Oct 2022	1.242	Oct 2023	-		1.242	Continuing	Continuing	-
Subtotal			0.000	4.300		6.500		1.242		-		1.242	Continuing	Continuing	N/A

Remarks
Target Value of the RQ-4 effort is not segregated by Budget Project Number.

	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	0.000	82.355	68.801	1.242	-	1.242	Continuing	Continuing	N/A

Remarks

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

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
RQ-4 Capability Enhancements				
Ground Segment Modernization Program Development and Test	1	2022	4	2022
RQ-4 Infrastructure	1	2022	4	2025