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

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| <b>Appropriation/Budget Activity</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i> | <b>R-1 Program Element (Number/Name)</b><br>PE 0305220F / RQ-4 UAV |
|--|--|

| 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                       | 0.000       | 36.791  | 1.242   | 9.516        | 0.000       | 9.516         | 0.000   | 0.000   | 0.000   | 0.000   | 0.000            | 47.549     |
| 675149: <i>RQ-4 Capability Enhancements</i> | 0.000       | 36.791  | 1.242   | 9.516        | 0.000       | 9.516         | 0.000   | 0.000   | 0.000   | 0.000   | 0.000            | 47.549     |

**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 Intelligence, Surveillance and Reconnaissance (ISR) platform delivering Synthetic Aperture Radar (SAR)-based Ground Moving Target Indicator (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 FY25 the USAF will focus its investment efforts on maximizing the Block 40's value to the DoD until divestiture. The RQ-4 will divest when space-based capabilities and Concept of Operations (CONOPS) become available and in place to meet Combatant Commanders' (CCMD) needs in accordance with the National Defense Strategy (NDS).

When judged feasible and affordable, this program will participate in operational 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).

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 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY2023 4.200M was expended for civilian pay expenses in this program element. In FY2024, 0.100M is forecasted for civilian pay expenses in this program element.

This program element may include necessary emergent or unanticipated civilian pay expenses required to manage, execute, and deliver RQ-4 program for emergent or unanticipated weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F.

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>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2025 Air Force | <b>Date:</b> March 2024 |
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| <b>Appropriation/Budget Activity</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i> | <b>R-1 Program Element (Number/Name)</b><br>PE 0305220F / RQ-4 UAV |
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| <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                       | 68.801         | 1.242          | 12.570              | 0.000              | 12.570               |
| Current President's Budget                        | 36.791         | 1.242          | 9.516               | 0.000              | 9.516                |
| Total Adjustments                                 | -32.010        | 0.000          | -3.054              | 0.000              | -3.054               |
| • 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                                  | -32.010        | 0.000          |                     |                    |                      |
| • SBIR/STTR Transfer                              | 0.000          | 0.000          |                     |                    |                      |
| • Other Adjustments                               | 0.000          | 0.000          | -3.054              | 0.000              | -3.054               |

**Change Summary Explanation**

FY23 \$32.010M excess due to Ground Segment Modernization Program (GSMP) termination, amount reprogrammed to support AF priorities.  
 FY25 \$3.054M decrease due to maturing divestment profile and to support higher AF priorities.

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

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

| 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 |
|--------------------------------------|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|------------------|------------|
| 675149: RQ-4 Capability Enhancements | 0.000       | 36.791  | 1.242   | 9.516        | 0.000       | 9.516         | 0.000   | 0.000   | 0.000   | 0.000   | 0.000            | 47.549     |
| 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 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 program's funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY2023 4.200M was expended for civilian pay expenses in this program element. In FY2024, 0.100M is forecasted for civilian pay expenses in this program element.

This program element may include necessary emergent or unanticipated civilian pay expenses required to manage, execute, and deliver RQ-4 program for emergent or unanticipated weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605827F.

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

|  | FY 2023 | FY 2024 | FY 2025 |
|--|---------|---------|---------|
| <b>Title:</b> RQ-4 Ground Segment Modernization Program (GSMP) | 2.524   | 0.000   | 0.000   |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Air Force |  | <b>Date:</b> March 2024   |
| <b>Appropriation/Budget Activity</b><br>3600 / 7                        | <b>R-1 Program Element (Number/Name)</b><br>PE 0305220F / RQ-4 UAV | <b>Project (Number/Name)</b><br>675149 / RQ-4 Capability Enhancements |

| <b>B. Accomplishments/Planned Programs (\$ in Millions)</b>   | <b>FY 2023</b> | <b>FY 2024</b> | <b>FY 2025</b> |
|---|----------------|----------------|----------------|
| <p><b>Description:</b> 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. Program was terminated in FY23, no funding in FY24 or FY25</p> <p><b>FY 2024 Plans:</b><br/>N/A</p> <p><b>FY 2025 Plans:</b><br/>N/A</p>  |                |                |                |
| <p><b>Title:</b> RQ-4 Infrastructure</p> <p><b>Description:</b> 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><b>FY 2024 Plans:</b><br/>-Supporting engineering efforts required to maintain RQ-4 operations.</p> <p><b>FY 2025 Plans:</b><br/>-Will continue to support engineering efforts required to maintain RQ-4 operations.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b><br/>Funding increase due to engineering support baselining, FY2024 was partially funded with FY2023 GSMP cancellation carryover. FY2025 returns to baseline funding needs.</p> | 34.267         | 1.242          | 9.516          |
| <b>Accomplishments/Planned Programs Subtotals</b>   | 36.791         | 1.242          | 9.516          |

| <b>C. Other Program Funding Summary (\$ in Millions)</b>    |                |                |                     |                    |                      |                |                |                |                |                         |                   |
|---|----------------|----------------|---------------------|--------------------|----------------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| <b>Line Item</b>  | <b>FY 2023</b> | <b>FY 2024</b> | <b>FY 2025 Base</b> | <b>FY 2025 OCO</b> | <b>FY 2025 Total</b> | <b>FY 2026</b> | <b>FY 2027</b> | <b>FY 2028</b> | <b>FY 2029</b> | <b>Cost To Complete</b> | <b>Total Cost</b> |
| • APAF 05 Line Item<br>HAWK00: RQ-4 Mods                    | 1.286          | 0.000          | 0.000               | -                  | 0.000                | 0.000          | 0.000          | -              | -              | 0.000                   | 1.286             |
| • APAF 07 Line Item RQ4DIS:<br>RQ-4 Post Production Support | 40.845         | 0.000          | 0.000               | -                  | 0.000                | -              | -              | -              | -              | 0.000                   | 40.845            |
| <b>Remarks</b>  |                |                |                     |                    |                      |                |                |                |                |                         |                   |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Air Force |  | <b>Date:</b> March 2024   |
| <b>Appropriation/Budget Activity</b><br>3600 / 7                        | <b>R-1 Program Element (Number/Name)</b><br>PE 0305220F / RQ-4 UAV | <b>Project (Number/Name)</b><br>675149 / RQ-4 Capability Enhancements |

**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 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 including contract closeout actions.

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

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

| <b>Product Development (\$ 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> | <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>          |                         |                   |                                 |
| RQ-4 Ground Segment Modernization Program (GSMP) | SS/CPIF                           | Northrop Grumman Integrated Systems : San Diego, CA | 0.000              | 2.524          | Aug 2023          | -              |                   | -                   |                   | -                  |                   | -                    | 0.000                   | 2.524             | 414.785                         |
| RQ-4 Infrastructure                              | Various                           | Various : Various                                   | 0.000              | 22.827         | Oct 2022          | 0.250          | Dec 2023          | 0.250               | Dec 2024          | -                  |                   | 0.250                | 0.000                   | 23.327            | 203.878                         |
| <b>Subtotal</b>                                  |                                   |   | 0.000              | 25.351         |                   | 0.250          |                   | 0.250               |                   | -                  |                   | 0.250                | 0.000                   | 25.851            | N/A                             |

**Remarks**  
Target Value of the RQ-4 EMD, IDIQ, Infrastructure and EPIC Contracts are not segregated by Budget Project Number.  
GSMP terminated 28 Sept 2022. No additional requirements in Budget Project Number 675147, RQ-4 Grnd Segment/Comm System

| <b>Support (\$ 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> | <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>          |                         |                   |                                 |
| Non Prime Technical Support        | Various                           | Various : Dayton, OH                      | 0.000              | 0.500          | Jan 2023          | 0.100          | Jan 2024          | 0.200               | Jan 2025          | -                  |                   | 0.200                | 0.000                   | 0.800             | -                               |
| Direct Cite Authority Civilian Pay | TBD                               | Not specified. : TBD                      | 0.000              | 4.205          | Jan 2023          | 0.100          | Jan 2024          | 1.200               | Jan 2025          | -                  |                   | 1.200                | 0.000                   | 5.505             | -                               |
| <b>Subtotal</b>                    |                                   |   | 0.000              | 4.705          |                   | 0.200          |                   | 1.400               |                   | -                  |                   | 1.400                | 0.000                   | 6.305             | N/A                             |

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

| <b>Test and Evaluation (\$ 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> | <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>          |                         |                   |                                 |
| Flight Test & Evaluation                    | MIPR                              | 412 TW : Edwards AFB, CA                  | 0.000              | 3.139          | Feb 2023          | -              |                   | -                   |                   | -                  |                   | -                    | 0.000                   | 3.139             | -                               |
| <b>Subtotal</b>                             |                                   |   | 0.000              | 3.139          |                   | -              |                   | -                   |                   | -                  |                   | -                    | 0.000                   | 3.139             | N/A                             |

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

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

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

| <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          |                  |            |                          |
| PSC: A&AS                                   | Various                | Various : Dayton, OH           | 0.000       | 1.475   | Apr 2023   | 0.100   | Oct 2023   | 5.517        | Oct 2024   | -           |            | 5.517         | 0.000            | 7.092      | -                        |
| PSC: Other Government Costs                 | Various                | Various : Dayton, OH           | 0.000       | 2.121   | Oct 2022   | 0.692   | Oct 2023   | 2.349        | Oct 2024   | -           |            | 2.349         | 0.000            | 5.162      | -                        |
| <b>Subtotal</b>                             |                        |                                | 0.000       | 3.596   |            | 0.792   |            | 7.866        |            | -           |            | 7.866         | 0.000            | 12.254     | N/A                      |

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

|                            | Prior Years | FY 2023 | FY 2024 | FY 2025 Base | FY 2025 OCO | FY 2025 Total | Cost To Complete | Total Cost | Target Value of Contract |
|----------------------------|-------------|---------|---------|--------------|-------------|---------------|------------------|------------|--------------------------|
| <b>Project Cost Totals</b> | 0.000       | 36.791  | 1.242   | 9.516        | -           | 9.516         | 0.000            | 47.549     | N/A                      |

**Remarks**

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| <b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2025 Air Force</b> |  | <b>Date:</b> March 2024   |
| <b>Appropriation/Budget Activity</b><br>3600 / 7                  | <b>R-1 Program Element (Number/Name)</b><br>PE 0305220F / RQ-4 UAV | <b>Project (Number/Name)</b><br>675149 / RQ-4 Capability Enhancements |

| 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 |

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| <b><i>RQ-4 Capability Enhancement</i></b> |  |
| RQ-4 Infrastructure                       |  |
| GSMP Development and Test                 |  |

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| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Air Force |  | <b>Date:</b> March 2024   |
| <b>Appropriation/Budget Activity</b><br>3600 / 7                   | <b>R-1 Program Element (Number/Name)</b><br>PE 0305220F / RQ-4 UAV | <b>Project (Number/Name)</b><br>675149 / RQ-4 Capability Enhancements |

Schedule Details

| Events by Sub Project                     | Start   |      | End     |      |
|---|---------|------|---------|------|
|   | Quarter | Year | Quarter | Year |
| <b><i>RQ-4 Capability Enhancement</i></b> |         |      |         |      |
| RQ-4 Infrastructure                       | 1       | 2023 | 4       | 2025 |
| GSMP Development and Test                 | 1       | 2023 | 4       | 2023 |