

**UNCLASSIFIED**

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

|   |  |
|---|--|
| <b>Appropriation/Budget Activity</b><br>0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i> | <b>R-1 Program Element (Number/Name)</b><br>PE 0604672C / <i>Homeland Defense Radar-Hawaii</i> |
|---|--|

| 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                              | 378.491     | 75.000  | 0.000   | 0.000        | -           | 0.000         | 0.000   | 0.000   | 0.000   | 0.000   | 0.000            | 453.491    |
| MD41: <i>Homeland Defense Radar-Hawaii (HDR-H)</i> | 378.491     | 75.000  | 0.000   | 0.000        | -           | 0.000         | 0.000   | 0.000   | 0.000   | 0.000   | 0.000            | 453.491    |

**Program MDAP/MAIS Code:** 362

**Note**

No funding is requested for this program.

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

The defense of Hawaii remains a high priority mission for the Department of Defense. However, various factors have changed since the early planning stages of Homeland Defense Radar-Hawaii (HDR-H), including an evolution of the threat landscape and the enhanced capabilities planned for the Next Generation Interceptor. In light of these changes, no funding is requested for HDR-H.

**B. Program Change Summary (\$ in Millions)**

|                                     | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024 Base</u> | <u>FY 2024 OCO</u> | <u>FY 2024 Total</u> |
|-------------------------------------|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget         | 75.000         | 0.000          | 0.000               | -                  | 0.000                |
| Current President's Budget          | 75.000         | 0.000          | 0.000               | -                  | 0.000                |
| Total Adjustments                   | 0.000          | 0.000          | 0.000               | -                  | 0.000                |
| • 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 Adjustment                  | 0.000          | 0.000          | 0.000               | -                  | 0.000                |

**Change Summary Explanation**

N/A

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

|  |   |  |
|--|---|--|
| <b>Appropriation/Budget Activity</b><br>0400 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0604672C / Homeland Defense Radar-Hawaii | <b>Project (Number/Name)</b><br>MD41 / Homeland Defense Radar-Hawaii (HDR-H) |
|--|---|--|

| 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 |
|---|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|------------------|------------|
| MD41: Homeland Defense Radar-Hawaii (HDR-H) | 378.491     | 75.000  | 0.000   | 0.000        | -           | 0.000         | 0.000   | 0.000   | 0.000   | 0.000   | 0.000            | 453.491    |
| Quantity of RDT&E Articles                  | -           | -       | -       | -            | -           | -             | -       | -       | -       | -       |                  |            |

**Note**

No funding is requested for this program.

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

The defense of Hawaii remains a high priority mission for the Department of Defense. However, various factors have changed since the early planning stages of Homeland Defense Radar-Hawaii (HDR-H), including an evolution of the threat landscape and the enhanced capabilities planned for the Next Generation Interceptor. In light of these changes, no funding is requested for HDR-H.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

|   | FY 2022 | FY 2023 | FY 2024 |
|---|---------|---------|---------|
| <b>Title:</b> Homeland Defense Radar - Hawaii (HDR-H)   | 75.000  | 0.000   | 0.000   |
| <b>Articles:</b>  | -       | -       | -       |
| <b>Description:</b> Congressional Plus Up for procurement of radar components and sub-assemblies. |         |         |         |
| <b>FY 2023 Plans:</b><br>-No funding requested for this effort in FY 2023                         |         |         |         |
| <b>FY 2024 Plans:</b><br>-No funding requested for this effort in FY 2024                         |         |         |         |
| <b>FY 2023 to FY 2024 Increase/Decrease Statement:</b><br>N/A                                     |         |         |         |
| <b>Accomplishments/Planned Programs Subtotals</b>   | 75.000  | 0.000   | 0.000   |

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

| <u>Line Item</u>  | <u>FY 2022</u> | <u>FY 2023</u> | <u>FY 2024 Base</u> | <u>FY 2024 OCO</u> | <u>FY 2024 Total</u> | <u>FY 2025</u> | <u>FY 2026</u> | <u>FY 2027</u> | <u>FY 2028</u> | <u>Cost To Complete</u> | <u>Total Cost</u> |
|---|----------------|----------------|---------------------|--------------------|----------------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| • 0603882C: Ballistic Missile Defense Midcourse Defense Segment | 707.632        | 689.018        | 903.633             | -                  | 903.633              | 852.567        | 906.634        | 930.538        | 875.198        | Continuing              | Continuing        |

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

|  |  |   |
|--|--|---|
| <b>Appropriation/Budget Activity</b><br>0400 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0604672C / <i>Homeland Defense Radar-Hawaii</i> | <b>Project (Number/Name)</b><br>MD41 / <i>Homeland Defense Radar-Hawaii (HDR-H)</i> |
|--|--|---|

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

| <b>Line Item</b>  | <b>FY 2022</b> | <b>FY 2023</b> | <b>FY 2024</b><br><b>Base</b> | <b>FY 2024</b><br><b>OCO</b> | <b>FY 2024</b><br><b>Total</b> | <b>FY 2025</b> | <b>FY 2026</b> | <b>FY 2027</b> | <b>FY 2028</b> | <b>Cost To Complete</b> | <b>Total Cost</b> |
|---|----------------|----------------|-------------------------------|------------------------------|--------------------------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| • 0603884C: <i>Ballistic Missile Defense Sensors</i>  | 250.123        | 230.502        | 239.159                       | -                            | 239.159                        | 212.191        | 233.877        | 242.623        | 251.226        | Continuing              | Continuing        |
| • 0603896C: <i>Ballistic Missile Defense Command and Control, Battle Management &amp; Communication</i> | 556.914        | 589.374        | 554.201                       | -                            | 554.201                        | 574.275        | 585.966        | 598.896        | 582.156        | Continuing              | Continuing        |
| • 0604873C: <i>Long Range Discrimination Radar (LRDR)</i>   | 129.552        | 75.120         | 103.517                       | -                            | 103.517                        | 100.114        | 68.815         | 69.219         | 65.521         | Continuing              | Continuing        |
| • 0604879C: <i>Ballistic Missile Defense Sensor Test</i>  | 77.428         | 88.326         | 111.049                       | -                            | 111.049                        | 90.697         | 103.885        | 154.905        | 127.807        | Continuing              | Continuing        |

**Remarks**

**D. Acquisition Strategy**

An acquisition strategy was approved in December 2017 for the procurement of a single Homeland Defense Radar (HDR) for Hawaii. In May of 2018, this acquisition strategy was updated to include the procurement of up to three Homeland Defense Radars. A competitively awarded multiple-award indefinite delivery, indefinite quantity (IDIQ) contract was awarded in July 2018 to three contractors. The first IDIQ delivery order was competitively awarded on December 18, 2018 for the development, construction, integration and testing, and delivery of one HDR to be sited in Hawaii. The HDR-H delivery order contract includes fixed price and cost-reimbursable line items that properly balance acquisition costs and risks. Performance and cost incentives were included to motivate contractor performance. The HDR-H delivery order contract includes the requirement for the radar prime to deliver a full technical data package (TDP) that will enable the Government to effectively and affordably sustain the system. As a result of delays in site selection, MDA issued a Partial Stop-Work Order on January 30, 2020 in accordance with Federal Acquisition Regulations (FAR) Clause 52.242-15, Stop-Work Order, and directed Lockheed Martin to stop work against the HDR-H Radar Prime contract except for efforts associated with the manufacturing of sub-array suites (SAS), antenna panels, two processing cabinets, and software development.

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

|  |   |  |
|--|---|--|
| <b>Appropriation/Budget Activity</b><br>0400 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0604672C / Homeland Defense Radar-Hawaii | <b>Project (Number/Name)</b><br>MD41 / Homeland Defense Radar-Hawaii (HDR-H) |
|--|---|--|

| <b>Product Development (\$ in Millions)</b>                                  |                        |                                   |             | FY 2022 |            | FY 2023 |            | FY 2024 Base |            | FY 2024 OCO |            | FY 2024 Total | Cost To Complete | Total Cost | Target Value of Contract |
|--|------------------------|-----------------------------------|-------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item   | Contract Method & Type | Performing Activity & Location    | Prior Years | Cost    | Award Date | Cost    | Award Date | Cost         | Award Date | Cost        | Award Date | Cost          |                  |            |                          |
| Homeland Defense Radar - Hawaii (HDR-H) - Civilians/Travel                   | Allot                  | MDA : Various                     | 7.989       | 0.865   | May 2022   | 0.000   |            | 0.000        |            | -           |            | 0.000         | 0.000            | 8.854      | 0.000                    |
| Homeland Defense Radar - Hawaii (HDR-H) - Communications Integration         | SS/CPIF                | Lockheed Martin : AL              | 9.022       | 0.000   |            | 0.000   |            | 0.000        |            | -           |            | 0.000         | 0.000            | 9.022      | 0.000                    |
| Homeland Defense Radar - Hawaii (HDR-H) - Contractor Support Services        | C/CPFF                 | MDA Various : AL                  | 13.612      | 2.735   | Jul 2022   | 0.000   |            | 0.000        |            | -           |            | 0.000         | 0.000            | 16.347     | 0.000                    |
| Homeland Defense Radar - Hawaii (HDR-H) - FFRDC/UARC                         | MIPR                   | GTRI, JHU/APL, MITRE : GA, VA, AL | 7.043       | 0.000   |            | 0.000   |            | 0.000        |            | -           |            | 0.000         | 0.000            | 7.043      | 0.000                    |
| Homeland Defense Radar - Hawaii (HDR-H) - Lead Service Cell & Radar Material | Various                | MDA Various : AL, CO              | 0.483       | 0.000   |            | 0.000   |            | 0.000        |            | -           |            | 0.000         | 0.000            | 0.483      | 0.000                    |
| Homeland Defense Radar - Hawaii (HDR-H) - Prime Contractor                   | C/FPIF                 | Lockheed Martin : NJ              | 326.415     | 70.400  | Apr 2022   | 0.000   |            | 0.000        |            | -           |            | 0.000         | 0.000            | 396.815    | 0.000                    |
| Homeland Defense Radar - Hawaii (HDR-H) - Site Activation & Studies          | MIPR                   | Various : AL, HI                  | 13.927      | 1.000   | Aug 2022   | 0.000   |            | 0.000        |            | -           |            | 0.000         | 0.000            | 14.927     | 0.000                    |
| <b>Subtotal</b>  |                        |                                   | 378.491     | 75.000  |            | 0.000   |            | 0.000        |            | -           |            | 0.000         | 0.000            | 453.491    | N/A                      |

**Remarks**  
N/A

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

|  |   |  |
|--|---|--|
| <b>Appropriation/Budget Activity</b><br>0400 / 4 | <b>R-1 Program Element (Number/Name)</b><br>PE 0604672C / Homeland Defense Radar-Hawaii | <b>Project (Number/Name)</b><br>MD41 / Homeland Defense Radar-Hawaii (HDR-H) |
|--|---|--|

| 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          |                  |            |                          |
| <b>Subtotal</b>          |                        |                                | -           | -       |            | -       |            | -            |            | -           |            | -             | -                | -          | N/A                      |

**Remarks**  
N/A

|                            | Prior Years | FY 2022 | FY 2023 | FY 2024 Base | FY 2024 OCO | FY 2024 Total | Cost To Complete | Total Cost | Target Value of Contract |
|----------------------------|-------------|---------|---------|--------------|-------------|---------------|------------------|------------|--------------------------|
| <b>Project Cost Totals</b> | 378.491     | 75.000  | 0.000   | 0.000        | -           | 0.000         | 0.000            | 453.491    | N/A                      |

**Remarks**  
Award Dates reflect date of first obligation. Additional obligations may incrementally occur throughout the year.



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|   |  |   |
|---|--|---|
| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 Missile Defense Agency |  | <b>Date:</b> March 2023   |
| <b>Appropriation/Budget Activity</b><br>0400 / 4                                | <b>R-1 Program Element (Number/Name)</b><br>PE 0604672C / <i>Homeland Defense Radar-Hawaii</i> | <b>Project (Number/Name)</b><br>MD41 / <i>Homeland Defense Radar-Hawaii (HDR-H)</i> |

Schedule Details

| Events                                  | Start   |      | End     |      |
|---|---------|------|---------|------|
|   | Quarter | Year | Quarter | Year |
| Homeland Defense Radar - Hawaii (HDR-H) | 1       | 2022 | 4       | 2022 |