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

| | |
|---|---|
| Appropriation/Budget Activity 3620F: Research, Development, Test & Evaluation, Space Force I BA 7: Operational Systems Development | R-1 Program Element (Number/Name) PE 1203154SF I Long Range Kill Chains |
|---|---|

| 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 | 243.036 | 244.121 | 0.000 | 244.121 | 249.481 | 252.540 | 252.533 | 257.514 | Continuing | Continuing |
| 671112: <i>Moving Target Indicator</i> | - | 0.000 | 0.450 | 0.839 | 0.000 | 0.839 | 5.969 | 8.750 | 8.518 | 8.686 | Continuing | Continuing |
| 671113: <i>Auxiliary Payloads</i> | - | 0.000 | 242.586 | 243.282 | 0.000 | 243.282 | 243.512 | 243.790 | 244.015 | 248.828 | Continuing | Continuing |

A. Mission Description and Budget Item Justification

Space-based Ground Moving Target Indicator (GMTI) system is a new start in FY24 and is an integral part of the DAF's Operational Imperative 3: Achieving Moving Target Engagement at Scale in a Highly Contested Environment. Space-based GMTI system will provide actionable information on adversary surface targets to the warfighter through the Advanced Battle Management System (ABMS) as an integral part of Joint All-Domain Command and Control (JADC2) concept. The USSF is working with the Air Force and the Intelligence Community (IC) in a complementary way to design, develop, and deploy space-based GMTI systems.

The GMTI Program (1203154SF) consists of the Moving Target Indicator Project 671112 and the Auxiliary Payloads Project 671113.

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. Program Change Summary (\$ in Millions) | <u>FY 2023</u> | <u>FY 2024</u> | <u>FY 2025 Base</u> | <u>FY 2025 OCO</u> | <u>FY 2025 Total</u> |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget | 0.000 | 243.036 | 243.693 | 0.000 | 243.693 |
| Current President's Budget | 0.000 | 243.036 | 244.121 | 0.000 | 244.121 |
| Total Adjustments | 0.000 | 0.000 | 0.428 | 0.000 | 0.428 |
| • 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 | 0.000 | 0.000 | 0.428 | 0.000 | 0.428 |

Change Summary Explanation

FY 2025: \$0.428M increase for inflation.

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| Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force | | | | | | | | | | Date: March 2024 | | |
| Appropriation/Budget Activity 3620F / 7 | | | | | R-1 Program Element (Number/Name) PE 1203154SF / Long Range Kill Chains | | | | Project (Number/Name) 671112 / Moving Target Indicator | | | |
| 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 |
| 671112: <i>Moving Target Indicator</i> | - | 0.000 | 0.450 | 0.839 | 0.000 | 0.839 | 5.969 | 8.750 | 8.518 | 8.686 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

A. Mission Description and Budget Item Justification

The space-based GMTI system will replace a portion of the aging E-8C JSTARS sensing capability, based upon the Space Warfighting Analysis Center's (SWAC's) analysis of alternatives assessment completed in September 2022. Proper funding is critical to ensure this system is in place to support the warfighter before all of the JSTARS aircraft retire. GMTI is not a one-for-one swap for the aging E-8 JSTARS that is about to retire, but rather an evolved weapon system that serves as the next generation moving target indicator for the warfighter. GMTI will be critical to tracking surface targets in Competition, Crisis, and Conflict environments. This will be accomplished from space, instead of from JSTARS aircraft which will not be capable of operating in a contested/non-permissive environment. Space-based GMTI will provide another way to harness data from the space domain and incorporate it into the secure cloud environment underpinning the ABMS to sense, make sense, and act faster than our adversaries. The Department of the Air Force will maximize use of mature commercial technologies in order to accelerate the acquisition timeline and meet the GMTI needs of the warfighter.

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

| | FY 2023 | FY 2024 | FY 2025 |
|---|----------------|----------------|----------------|
| Title: Moving Target Indicator | 0.000 | 0.450 | 0.839 |
| Description: Moving Target Indicator | | | |
| FY 2024 Plans: New start for FY24. In FY24, the Moving Target Indicator project will leverage relationship with NRO partner to develop and field GMTI system. | | | |
| N/A | | | |
| FY 2025 Plans: In FY25, the Moving Target Indicator project will continue to leverage relationship with NRO partner to develop and field GMTI system. | | | |
| FY 2024 to FY 2025 Increase/Decrease Statement: Increase is due to both inflation and full year of contract(s) to be awarded in FY24. | | | |
| Accomplishments/Planned Programs Subtotals | 0.000 | 0.450 | 0.839 |

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

N/A

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

| | | |
|---|--|---|
| Appropriation/Budget Activity 3620F / 7 | R-1 Program Element (Number/Name) PE 1203154SF / <i>Long Range Kill Chains</i> | Project (Number/Name) 671112 / <i>Moving Target Indicator</i> |
|---|--|---|

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

Remarks

D. Acquisition Strategy

USSF, partnered with NRO will define roles and responsibilities within Title 10 and Title 50 constraints. USSF will be working with the other services and IC to understand the Joint tactical-level ISR and warfighting/targeting requirements and the best way to meet those requirements. This funding will help provide Management Services to the Program Office.

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

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|---|--|---|
| Appropriation/Budget Activity 3620F / 7 | R-1 Program Element (Number/Name) PE 1203154SF / <i>Long Range Kill Chains</i> | Project (Number/Name) 671112 / <i>Moving Target Indicator</i> |
|---|--|---|

| 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 |

| | |
|---------------------------------------|--|
| <i>Moving Target Indicator</i> | |
| Dev & Field MTI | |

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| Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force | | Date: March 2024 |
| Appropriation/Budget Activity 3620F / 7 | R-1 Program Element (Number/Name) PE 1203154SF / <i>Long Range Kill Chains</i> | Project (Number/Name) 671112 / <i>Moving Target Indicator</i> |

Schedule Details

| Events by Sub Project | Start | | End | |
|---------------------------------------|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| <i>Moving Target Indicator</i> | | | | |
| Dev & Field MTI | 2 | 2024 | 4 | 2029 |

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|---|--------------------|----------------|----------------|---------------------|---|----------------------|----------------|----------------|---|-------------------------|-------------------------|-------------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force | | | | | | | | | | Date: March 2024 | | |
| Appropriation/Budget Activity 3620F / 7 | | | | | R-1 Program Element (Number/Name) PE 1203154SF / Long Range Kill Chains | | | | Project (Number/Name) 671113 / Auxiliary Payloads | | | |
| 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 |
| 671113: <i>Auxiliary Payloads</i> | - | 0.000 | 242.586 | 243.282 | 0.000 | 243.282 | 243.512 | 243.790 | 244.015 | 248.828 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

A. Mission Description and Budget Item Justification

The space-based GMTI system will replace a portion of the aging E-8C JSTARS sensing capability, based upon the Space Warfighting Analysis Center's (SWAC's) analysis of alternatives assessment completed in September 2022. Proper funding is critical to ensure this system is in place to support the warfighter before all of the JSTARS aircraft retire. GMTI is not a one-for-one swap for the aging E-8 JSTARS that is about to retire, but rather an evolved weapon system that serves as the next generation moving target indicator for the warfighter. GMTI will be critical to tracking surface targets in Competition, Crisis, and Conflict environments. This will be accomplished from space, instead of from JSTARS aircraft which will not be capable of operating in a contested/non-permissive environment. Space-based GMTI will provide another way to harness data from the space domain and incorporate it into the secure cloud environment underpinning the ABMS to sense, make sense, and act faster than our adversaries. The Department of the Air Force will maximize use of mature commercial technologies in order to accelerate the acquisition timeline and meet the GMTI needs of the warfighter.

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

| | FY 2023 | FY 2024 | FY 2025 |
|--|----------------|----------------|----------------|
| Title: Auxiliary Payloads | 0.000 | 242.586 | 243.282 |
| Description: Auxiliary Payloads | | | |
| FY 2024 Plans: New start for FY24. In FY24, the Auxiliary Payloads project will leverage relationship with NRO partner to develop and field GMTI system. | | | |
| N/A | | | |
| FY 2025 Plans: In FY25, the Auxiliary Payloads project will continue to leverage relationship with NRO partner to develop and field GMTI system. | | | |
| FY 2024 to FY 2025 Increase/Decrease Statement: The increase in FY25 is due to inflation. | | | |
| Accomplishments/Planned Programs Subtotals | 0.000 | 242.586 | 243.282 |

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

N/A

Remarks

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| | | |
|---|--|--|
| Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force | | Date: March 2024 |
| Appropriation/Budget Activity 3620F / 7 | R-1 Program Element (Number/Name) PE 1203154SF / <i>Long Range Kill Chains</i> | Project (Number/Name) 671113 / <i>Auxiliary Payloads</i> |

D. Acquisition Strategy

USSF, partnered with NRO will define roles and responsibilities within Title 10 and Title 50 constraints. USSF will be working with the other services and IC to understand the Joint tactical-level ISR and warfighting/targeting requirements and the best way to meet those requirements. Additional details will be provided upon request at a different classification level.

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

| | | |
|---|--|--|
| Appropriation/Budget Activity 3620F / 7 | R-1 Program Element (Number/Name) PE 1203154SF / <i>Long Range Kill Chains</i> | Project (Number/Name) 671113 / <i>Auxiliary Payloads</i> |
|---|--|--|

| 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 |

| | |
|--------------------------|--|
| Auxiliary Payload | |
| Dev & field Aux PL | |

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| Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force | | Date: March 2024 |
| Appropriation/Budget Activity 3620F / 7 | R-1 Program Element (Number/Name) PE 1203154SF / <i>Long Range Kill Chains</i> | Project (Number/Name) 671113 / <i>Auxiliary Payloads</i> |

Schedule Details

| Events by Sub Project | Start | | End | |
|---------------------------------|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| <i>Auxiliary Payload</i> | | | | |
| Dev & field Aux PL | 2 | 2024 | 4 | 2029 |