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

<b>Appropriation/Budget Activity</b> 3620F: Research, Development, Test & Evaluation, Space Force I BA 7: Operational Systems Development	<b>R-1 Program Element (Number/Name)</b> PE 1203154SF I Long Range Kill Chains
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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	0.000	243.036	0.000	243.036	243.693	249.053	252.065	252.070	Continuing	Continuing
671112: <i>Moving Target Indicator</i>	-	0.000	0.000	0.450	0.000	0.450	0.837	5.958	8.733	8.502	Continuing	Continuing
671113: <i>Auxiliary Payloads</i>	-	0.000	0.000	242.586	0.000	242.586	242.856	243.095	243.332	243.568	Continuing	Continuing

**Note**  
 This program, BA 7, PE 1203154SF, project 671112, Moving Target Indicator, is a new start.  
 This program, BA 7, PE 1203154SF, project , Auxiliary Payloads, is a new start.

**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>B. Program Change Summary (\$ in Millions)</b>	<b><u>FY 2022</u></b>	<b><u>FY 2023</u></b>	<b><u>FY 2024 Base</u></b>	<b><u>FY 2024 OCO</u></b>	<b><u>FY 2024 Total</u></b>
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	243.036	0.000	243.036
Total Adjustments	0.000	0.000	243.036	0.000	243.036
• 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	243.036	0.000	243.036

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Air Force										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 3620F / 7					<b>R-1 Program Element (Number/Name)</b> PE 1203154SF / Long Range Kill Chains				<b>Project (Number/Name)</b> 671112 / Moving Target Indicator			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 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>
671112: <i>Moving Target Indicator</i>	-	0.000	0.000	0.450	0.000	0.450	0.837	5.958	8.733	8.502	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**  
This program, BA 7, PE 1203154SF, project 671112, Moving Target Indicator, is a new start.

**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)**

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
<b>Title:</b> Moving Target Indicator	-	0.000	0.450	0.000	0.450
<b>Description:</b> Moving Target Indicator					
<b>FY 2023 Plans:</b> N/A					
<b>FY 2024 Base Plans:</b> New start for FY24. In FY24, the Moving Target Indicator project will leverage relationship with NRO partner to develop and field GMTI system.					
<b>FY 2024 OCO Plans:</b> N/A					
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> N/A					
<b>Accomplishments/Planned Programs Subtotals</b>	-	0.000	0.450	0.000	0.450

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Air Force	<b>Date:</b> March 2023
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<b>Appropriation/Budget Activity</b> 3620F / 7	<b>R-1 Program Element (Number/Name)</b> PE 1203154SF / <i>Long Range Kill Chains</i>	<b>Project (Number/Name)</b> 671112 / <i>Moving Target Indicator</i>
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**C. Other Program Funding Summary (\$ in Millions)**

N/A

**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.



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

<b>Appropriation/Budget Activity</b> 3620F / 7	<b>R-1 Program Element (Number/Name)</b> PE 1203154SF / <i>Long Range Kill Chains</i>	<b>Project (Number/Name)</b> 671112 / <i>Moving Target Indicator</i>
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FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
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><i>Moving Target Indicator</i></b>	
Dev & Field MTI	[REDACTED]

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 Air Force		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 3620F / 7	<b>R-1 Program Element (Number/Name)</b> PE 1203154SF / <i>Long Range Kill Chains</i>	<b>Project (Number/Name)</b> 671112 / <i>Moving Target Indicator</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Moving Target Indicator</i></b>				
Dev & Field MTI	1	2024	4	2024

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Air Force										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 3620F / 7					<b>R-1 Program Element (Number/Name)</b> PE 1203154SF / Long Range Kill Chains				<b>Project (Number/Name)</b> 671113 / Auxiliary Payloads			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 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>
671113: <i>Auxiliary Payloads</i>	-	0.000	0.000	242.586	0.000	242.586	242.856	243.095	243.332	243.568	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

This program, BA 7, PE 1203154SF, project , Auxiliary Payloads, is a new start.

**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)**

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
<b>Title:</b> Auxiliary Payloads	-	0.000	242.586	0.000	242.586
<b>Description:</b> Auxiliary Payloads					
<b>FY 2023 Plans:</b> N/A					
<b>FY 2024 Base Plans:</b> New start for FY24. In FY24, the Auxiliary Payloads project will leverage relationship with NRO partner to develop and field GMTI system.					
<b>FY 2024 OCO Plans:</b> N/A					
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> N/A					
<b>Accomplishments/Planned Programs Subtotals</b>	-	0.000	242.586	0.000	242.586

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<b>Appropriation/Budget Activity</b> 3620F / 7	<b>R-1 Program Element (Number/Name)</b> PE 1203154SF / <i>Long Range Kill Chains</i>	<b>Project (Number/Name)</b> 671113 / <i>Auxiliary Payloads</i>
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**C. Other Program Funding Summary (\$ in Millions)**

N/A

**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.



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

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FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
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>Auxiliary Payload</b>	
Dev & field Aux PL	[REDACTED]

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 Air Force		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 3620F / 7	<b>R-1 Program Element (Number/Name)</b> PE 1203154SF / <i>Long Range Kill Chains</i>	<b>Project (Number/Name)</b> 671113 / <i>Auxiliary Payloads</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Auxiliary Payload</i></b>				
Dev & field Aux PL	1	2024	4	2024