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

<b>Appropriation/Budget Activity</b> 3620F: <i>Research, Development, Test &amp; Evaluation, Space Force I BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 1206730SF / <i>Space Security and Defense Program</i>
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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	-	69.169	59.784	53.199	0.000	53.199	54.448	55.570	57.539	58.675	Continuing	Continuing
64A025: <i>Space Protection Program</i>	-	69.169	59.784	53.199	0.000	53.199	54.448	55.570	57.539	58.675	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This Program Element (PE) 1206730SF, Space Security and Defense Program (SSDP) funds activities executed by the Joint Department of Defense (DoD) and Office of the Director of National Intelligence (ODNI) organization Space Security and Defense Program. The Program and organization were established to function as the center of excellence for options and strategies (materiel, non-materiel, cross-Title, cross-domain) leading to a more resilient National Security Space (NSS) Enterprise. The organization and its activities operate under the authority of the Deputy Secretary of Defense (DEPSECDEF) and Principal Deputy Director of National Intelligence (PDDNI). SSDP's unique position with both the DoD and ODNI, authorities from both the DEPSECDEF and PDDNI, and broad NSS-scoped mission-set provides a crucial and objective protection competency to advance the highest priority efforts to deliver economical, programmatically-executable, and operationally-relevant space protection solutions for the Nation.

SSDP-funded activities support NSS stakeholders including the DoD, Intelligence Community (IC), civil, commercial, and international space entities/missions supporting current and future national security operations in both peacetime and throughout all phases of conflict. In this capacity, SSDP employs these funds to lead and collaborate on NSS susceptibility and vulnerability assessments, and threat mitigation processes. Its breadth of activities span the capability to conduct rigorous foundational analyses in order to understand red counterspace threat and blue operations environments, and to plan and execute projects to discover, analyze, and validate near-term and far-term options to detect, track, and mitigate and/or render these threats (including emerging space and transmedium threats) ineffective. SSDP analytic products to mitigate/defeat adversary counterspace threats either manifest themselves in validated materiel solution recommendations to corporate decision processes (including system and/or architectural requirements and potential investment opportunities), or as non-materiel recommendations such as Tactics, Techniques, and Procedures (TTP), Concepts of Operations (CONOPS), and/or space policy, or a combination of both. Regardless, SSDP threat analyses and models of all sorts are shared across the NSS enterprise to ensure efficiency and speed of analysis, and ultimately produce results in more resilient space effects for national security missions.

This program element may include necessary emergent or unanticipated civilian pay expenses required to manage and execute SSDP and/or deliver products for emergent or unanticipated weapon system capabilities.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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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	69.169	59.784	51.360	0.000	51.360
Current President's Budget	69.169	59.784	53.199	0.000	53.199
Total Adjustments	0.000	0.000	1.839	0.000	1.839
• 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	1.839	0.000	1.839

**Change Summary Explanation**

FY 2025: Increase due to wargaming and model-based systems engineering project delivery.

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
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<b>Title:</b> Space Protection and Survivability	69.169	59.784	53.199
<b>Description:</b> SSDP applies a holistic analytical approach to improve the resilience of NSS space effects for national security missions.			
<b>FY 2024 Plans:</b> In FY 2024 SSDP activities remain focused on identifying and answering NSS stakeholder priorities across three still-relevant objective areas; Survivability and Defense, Offensive Space Control, and Preparing for the Future Fight. As with prior years, the program's holistic approach to these analyses and resulting recommendations demanded threat knowledge, Space Domain Awareness and Fire Control, costing, policy, and wargaming analyses to the appropriate extent and practicality.			
NSS stakeholders will continue to benefit from SSDP-benchmarked digital engineering products (including MBSE) for both space protection analyses and threat definition documentation. Recognizing the demand for SSDP analyses, the program will continue to invest in knowledge management infrastructure to make analyses more readily available and will continue to invest in developing and sustaining analytic capabilities to support its NSS Enterprise stakeholders.			
In addition to ongoing and new Space Control, EW, and Future Technology investment recommendations, FY 2024 will deliver initial digital engineering capabilities to the United States Space Force (USSF) including a Model Library with available blue systems and red threat models with complementary designs for the Analysis Environment and Government-Owned MBSE-			

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<p>compliant Simulation Engines. These deliverables were intended to be used for not only USSF Force Design and Wargaming activities, but also the test, training, and doctrine communities.</p> <p><b>FY 2025 Plans:</b> Fiscal Year 2025 will see continued organizational change, growth, and challenges within the United States Space Force (USSF) and across the National Security Space (NSS) community. As an integral part of the community, the Space Security and Defense Program (SSDP) will adapt to the inevitable changes and continue to provide our stakeholders with creative, informed, and rigorously evaluated solutions for space superiority.</p> <p>SSDP's analytical priorities for FY25 focus on the following: Ensuring Resilience of Near-term and Future Space and Space-enabled Missions, Offensive Space Control (OSC) Force Design, Enhancing Space Control Weapon Effectiveness, and Space and the Cross Domain Fight. As part of Ensuring Resilience of Near-term and Future Space and Space-enabled Missions, SSDP will continue to focus on the resiliency of next-generation space missions and support to our stakeholders' development of Government Reference Architectures. Keeping pace with and getting ahead of adversary advances is a critical component of our Offensive Space Control Force Design analysis. Specifying Space Force Design (offense and defense) is only the start of our SSDP responsibilities. The program will also be focused on Enhancing Space Control Weapon Effectiveness; requiring SSDP to collaborate with our stakeholders to ensure system readiness and effectivity. Finally, understanding the impact of space to the cross-domain fight for both the US and our adversaries is an increasingly important aspect of SSDP's Space and the Cross-Domain Fight responsibilities.</p> <p>In the spirit of our charter, we will address these priorities through materiel and non-materiel solutions, kinetic and non-kinetic options, cross-domain solutions, and policy, doctrine and strategic messaging analyses to support safe, sustainable, and flexible on-orbit operations, and deter adversaries from engaging in space conflict.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> FY 2025 funding decreased due to completion of wargaming and model-based systems engineering project delivery in FY 2024.</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	69.169	59.784	53.199

<b>D. Other Program Funding Summary (\$ in Millions)</b> N/A	
<b>Remarks</b> N/A	

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**E. Acquisition Strategy**

All contracts funded in this program element will be awarded using competitive procedures to the maximum extent possible. The program consists of numerous efforts/projects.

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

<b>Appropriation/Budget Activity</b> 3620F / 4	<b>R-1 Program Element (Number/Name)</b> PE 1206730SF / <i>Space Security and Defense Program</i>	<b>Project (Number/Name)</b> 64A025 / <i>Space Protection Program</i>
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<b>Product Development (\$ 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			
Space Protection and Survivability	Various	Various : TBD	-	62.524	Jan 2023	52.822	Oct 2023	46.349	Oct 2024	-		46.349	Continuing	Continuing	-
<b>Subtotal</b>			-	62.524		52.822		46.349		-		46.349	Continuing	Continuing	N/A

<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			
Program Support and Infrastructure	Various	Various : TBD	-	2.326	Nov 2022	2.493	Oct 2023	2.503	Oct 2024	-		2.503	Continuing	Continuing	-
Oversight, Advisory and other Technical Support	Various	Various : TBD	-	4.319	Nov 2022	4.469	Oct 2023	4.347	Oct 2024	-		4.347	Continuing	Continuing	-
<b>Subtotal</b>			-	6.645		6.962		6.850		-		6.850	Continuing	Continuing	N/A

			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>			-	69.169	59.784	53.199	-	53.199	Continuing	Continuing	N/A

**Remarks**  
N/A

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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> 3620F / 4	<b>R-1 Program Element (Number/Name)</b> PE 1206730SF / <i>Space Security and Defense Program</i>	<b>Project (Number/Name)</b> 64A025 / <i>Space Protection Program</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
<b><i>Space Security and Defense Program</i></b>																												
Non-Traditional Effects - Multi-Domain Effects																												
Non-Traditional Effects - Electronic Warfare																												
Space Control																												
Space Control - Space Domain Awareness																												
Space Control - Future Technologies																												
Wargaming																												
Intelligence and Policy - Threat Assessment																												
Intelligence and Policy- Policy Assessment																												
Wargaming M&S Sustainment																												

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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> 3620F / 4	<b>R-1 Program Element (Number/Name)</b> PE 1206730SF / <i>Space Security and Defense Program</i>	<b>Project (Number/Name)</b> 64A025 / <i>Space Protection Program</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Space Security and Defense Program</i></b>				
Non-Traditional Effects - Multi-Domain Effects	1	2023	4	2029
Non-Traditional Effects - Electronic Warfare	1	2023	4	2029
Space Control	1	2023	4	2029
Space Control - Space Domain Awareness	1	2023	4	2029
Space Control - Future Technologies	1	2023	4	2029
Wargaming	1	2023	4	2024
Intelligence and Policy - Threat Assessment	1	2023	4	2029
Intelligence and Policy- Policy Assessment	1	2023	4	2029
Wargaming M&S Sustainment	1	2025	4	2029