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

Appropriation/Budget Activity 3620F: <i>Research, Development, Test & Evaluation, Space Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 1206421SF / <i>Counterspace Systems</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	-	32.683	36.537	37.078	0.000	37.078	37.385	38.155	39.532	40.313	Continuing	Continuing
65A001: <i>Counter Satellite Communications System</i>	-	20.666	34.382	34.877	0.000	34.877	35.132	35.855	37.149	37.882	Continuing	Continuing
65A013: <i>BOUNTY HUNTER</i>	-	12.017	2.155	2.201	0.000	2.201	2.253	2.300	2.383	2.431	Continuing	Continuing

A. Mission Description and Budget Item Justification

Acquisition Decision Memorandum (ADM), April 24th 2009, directed all capabilities identified in the October 4th 2006, Counter Communications System (CCS) Block 20, Joint Requirements Oversight Council (JROC) approved Capability Development Document (CDD) shall be accomplished as Pre-planned Product Improvement Program (P3I) upgrades to the CCS Block 10. On April 11th 2016, Air Force Space Command (AFSPC) updated the ADM adding additional responsibility for CCS Block 10.3 Meadowlands.

CCS provides expeditionary, deployable, reversible offensive space control (OCS) effects applicable across the full spectrum of conflict. It prevents adversary Satellite Communications (SATCOM) in Area of Responsibility (AOR) including Command & Control (C2), Early Warning, and Propaganda; and hosts Rapid Reaction Capabilities in response to Urgent Needs. This program effort includes architecture engineering and studies, system hardware design and development, software design and integration, and testing and demonstration of capabilities to provide disruption of satellite communications signals.

As previously reported, in FY 2024, Counter Communications System (CCS) Emerging Threat Integration Program (CETIP) is a new start. This project defines, tests, and integrates new software capabilities and minor hardware solutions to ensure the Counter Communications System is able to maintain effectiveness against emerging threats and adversary capabilities.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver CCS weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 1206392SF and 1206398SF.

Bounty Hunter (BH) is a ground-based, deployable, tactical space Electronic Warfare Support system (ES) that provides SATCOM geolocation and interference detection capabilities to support the Defensive Space Control of US systems in a specific AOR. BH provides the capability to monitor, detect, characterize and geolocate friendly and unfriendly electro-magnetic interference (EMI) across multiple radio frequency bands in support of Command, Control, Communications, Computers, and Intelligence (C4I) systems by US Joint Forces. Continuing annual agile development is needed to meet new user needs in an ever-changing threat environment.

This program element may include civilian pay expenses required to manage, execute, and deliver Bounty Hunter capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605829S.

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Appropriation/Budget Activity 3620F: <i>Research, Development, Test & Evaluation, Space Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 1206421SF / <i>Counterspace Systems</i>
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This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	31.544	36.537	37.014	0.000	37.014
Current President's Budget	32.683	36.537	37.078	0.000	37.078
Total Adjustments	1.139	0.000	0.064	0.000	0.064
• 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	1.840	0.000			
• SBIR/STTR Transfer	-0.701	0.000			
• Other Adjustments	0.000	0.000	0.064	0.000	0.064

Change Summary Explanation

FY 2023: +\$1.840 million increase for CCS Meadowlands integration and test.

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force										Date: March 2024		
Appropriation/Budget Activity 3620F / 5					R-1 Program Element (Number/Name) PE 1206421SF / <i>Counterspace Systems</i>				Project (Number/Name) 65A001 / <i>Counter Satellite Communications System</i>			
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
65A001: <i>Counter Satellite Communications System</i>	-	20.666	34.382	34.877	0.000	34.877	35.132	35.855	37.149	37.882	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Acquisition Decision Memorandum (ADM), April 24th 2009, directed all capabilities identified in the Oct 4th 2006 CCS Block 20, Joint Requirements Oversight Council (JROC) approved Capability Development Document (CDD) shall be accomplished as Pre-planned Product Improvement Program (P3I) upgrades to the Counter Communications System (CCS) Block 10. On April 11th 2016, Air Force Space Command (AFSPC) signed and updated the ADM adding additional responsibility for CCS Block 10.3 Meadowlands.

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

	FY 2023	FY 2024	FY 2025
Title: Counter Communications System (CCS) Pre-planned Product Improvement (P3I) Program	20.666	33.605	7.000
Description: Develop, integrate, test and field the CCS P3I program. This is an incremental approach to deliver Block 20 CCS capabilities.			
FY 2024 Plans: Complete P3I testing and system delivery of the Block 10 P3I Meadowlands program. Integrate CCS Block 10.3 Meadowlands into architecture, including forward garrison systems, mission-specific emulators, training environment and multi-range integration. Funding will allow the program to rapidly respond and implement system resiliency and situational awareness necessary to operate in the contested space domain. RDT&E funding is required to support this transformation and enable Space Superiority end-to-end integration activities such as, but not limited to, program office support, studies, technical analysis, experimentation, prototyping, architectural development, systems engineering demonstrations, testing, command and control integration, and mission partner integration.			
FY 2025 Plans: Complete P3I testing and system delivery of the Block 10 P3I Meadowlands program. Prepare to integrate CCS Block 10.3 Meadowlands into architecture, including forward garrison systems, mission specific emulators, training environment and multi-range integration. Prepare to support integrated testing and transition to operations. Funding will allow the program to rapidly respond and implement system resiliency and situational awareness necessary to operate in the contested space domain. RDT&E funding is required to support this transformation and enable Space Superiority end-to-end integration activities such as, but not limited to, program office support, studies, technical analysis, experimentation, prototyping, architectural development, systems engineering demonstrations, testing, command and control integration and mission partner integration.			
FY 2024 to FY 2025 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3620F / 5	R-1 Program Element (Number/Name) PE 1206421SF / <i>Counterspace Systems</i>	Project (Number/Name) 65A001 / <i>Counter Satellite Communications System</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
FY 2025 decreased due to FY 2024 increase in deferred mandatory testing and integration efforts to sell off system level performance requirements.			
<p>Title: Counter Communications System (CCS) Emerging Threat Integration Program (CETIP)</p> <p>Description: Provides time relevant and intelligence informed software capabilities and minor hardware solutions against new and emerging threats. Updates and transitions existing mission techniques and establishes new mission techniques to ensure CCS maintains effectiveness against evolving adversary capabilities.</p> <p>FY 2024 Plans: FY 2024 reduced by -28.382M in order to complete deferred mandatory testing and integration efforts for CCS P3I program. Award risk reduction study for future mission techniques entailing modern iterative development of new software applications and algorithms to meet emergent threats. Activities may include, but are not limited to, risk reduction, studies, technical analysis, etc.</p> <p>FY 2025 Plans: Begin studies for up to three mission techniques with options for development. Start concentrated stand-alone testing of CCS capabilities to refine space warfighting techniques and prepare for transition into EW architecture. Begin new antenna band development. Activities may include, but are not limited to, risk reduction studies, technical analysis, experimentation, prototyping, etc.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: FY 2025 increased due to start of CETIP development, test, and transition activities.</p>	0.000	0.777	27.877
Accomplishments/Planned Programs Subtotals	20.666	34.382	34.877

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• SPAF 01 CTRSPC: <i>Counterspace Systems</i>	51.352	50.565	4.277	-	4.277	2.059	2.111	2.156	2.199	0.000	114.719

Remarks

D. Acquisition Strategy

The CETIP acquisition will be awarded using competitive procedures and existing contracts when applicable to upgrade existing capabilities, as well as, to acquire next-generation capabilities through incremental acquisitions.

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

Appropriation/Budget Activity 3620F / 5	R-1 Program Element (Number/Name) PE 1206421SF / <i>Counterspace Systems</i>	Project (Number/Name) 65A001 / <i>Counter Satellite Communications System</i>
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Product Development (\$ in Millions)				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			
Block 10 P3I Development	Various	Various : El Segundo, CA	-	15.192	Feb 2023	22.819	Feb 2024	7.000	Feb 2025	-		7.000	Continuing	Continuing	-
CETIP Development	Various	TBD : TBD	-	-		0.777	Sep 2024	16.162	Oct 2024	-		16.162	Continuing	Continuing	-
Technical Mission Analysis	RO	Aerospace Corp : El Segundo, CA	-	0.200	Oct 2022	1.227	Oct 2023	1.296	Oct 2024	-		1.296	Continuing	Continuing	-
Enterprise Systems Engineering and Integration	C/FFP	Various : Various, CA	-	0.000	May 2023	1.022	May 2024	1.042	May 2025	-		1.042	Continuing	Continuing	-
Counterspace Architecture Development	C/CPFF	NGMS : Redondo Beach, CA	-	0.427	Jan 2023	0.937	Jan 2024	0.954	Jan 2025	-		0.954	Continuing	Continuing	-
SBIR/STTR	Allot	Not specified. : TBD	-	-		1.238	Oct 2023	1.253	Oct 2024	-		1.253	Continuing	Continuing	-
Subtotal			-	15.819		28.020		27.707		-		27.707	Continuing	Continuing	N/A

Support (\$ in Millions)				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			
Security	C/CPAF	Mantech : El Segundo, CA	-	2.292	Nov 2022	2.349	Nov 2023	2.391	Nov 2024	-		2.391	Continuing	Continuing	-
Subtotal			-	2.292		2.349		2.391		-		2.391	Continuing	Continuing	N/A

Management Services (\$ in Millions)				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			
FFRDC	RO	Aerospace Corp : El Segundo, CA	-	0.068	Oct 2022	0.558	Oct 2023	1.271	Oct 2024	-		1.271	Continuing	Continuing	-
A&AS	Various	Various : El Segundo, CA	-	2.351	May 2023	3.354	May 2024	3.405	May 2025	-		3.405	Continuing	Continuing	-
Other Support	Various	Various : El Segundo, CA	-	0.136	Oct 2022	0.101	Oct 2023	0.103	Oct 2024	-		0.103	Continuing	Continuing	-

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3620F / 5	R-1 Program Element (Number/Name) PE 1206421SF / <i>Counterspace Systems</i>	Project (Number/Name) 65A001 / <i>Counter Satellite Communications System</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

CCS B10.3	
10.3 Development	
Technique Development (2x per year)	
10.3 Development Test/Operational Test	
10.3 System Deliveries #1-4	
CETIP	
Risk Reduction Study	
Mission Technique #1	
Mission Technique #2	
New Antenna Band Development	
Mission Technique #3	
Alternative SATCOM Antenna Development	
Mission Technique #4	
Mission Technique #5	

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3620F / 5	R-1 Program Element (Number/Name) PE 1206421SF / <i>Counterspace Systems</i>	Project (Number/Name) 65A001 / <i>Counter Satellite Communications System</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
CCS B10.3				
10.3 Development	1	2023	1	2026
Technique Development (2x per year)	1	2023	4	2024
10.3 Development Test/Operational Test	1	2026	2	2026
10.3 System Deliveries #1-4	2	2026	3	2026
CETIP				
Risk Reduction Study	4	2024	1	2025
Mission Technique #1	1	2025	2	2026
Mission Technique #2	1	2025	2	2027
New Antenna Band Development	2	2025	2	2028
Mission Technique #3	3	2025	3	2027
Alternative SATCOM Antenna Development	4	2026	4	2028
Mission Technique #4	1	2026	3	2028
Mission Technique #5	4	2026	2	2029

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force										Date: March 2024		
Appropriation/Budget Activity 3620F / 5					R-1 Program Element (Number/Name) PE 1206421SF / <i>Counterspace Systems</i>				Project (Number/Name) 65A013 / <i>BOUNTY HUNTER</i>			
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
65A013: <i>BOUNTY HUNTER</i>	-	12.017	2.155	2.201	0.000	2.201	2.253	2.300	2.383	2.431	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Bounty Hunter (BH) is a ground-based, deployable, tactical space Electronic Warfare System (EWS) that provides SATCOM geolocation and interference detection capabilities to support the Defensive Space Control of US systems in a specific AOR. BH provides the capability to monitor, detect, characterize and geolocate friendly and unfriendly electro-magnetic interference (EMI) across multiple radio frequency bands in support of Command, Control, Communications, Computers, and Intelligence (C4I) systems by US Joint Forces. Continuing annual agile development is needed to meet new user needs in an ever-changing threat environment.

This program element may include necessary emergent or unanticipated civilian pay expenses required to manage, execute, and deliver Bounty Hunter 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 0605829F. In PY 2023 \$0.144M was expended for civilian pay expenses in this program element, and in CY 2024 \$0.149M forecasted for civilian pay expenses in this program element.

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

	FY 2023	FY 2024	FY 2025
Title: Bounty Hunter (BH)	12.017	2.155	2.201
Description: Develop new capabilities for the BH program to meet and maintain pace with the operational threat environment. Specific accomplishments are classified.			
FY 2024 Plans: Continue with execution of the program RDT&E plan for system upgrades to allow for system component consolidation and refinement of a remote operations capability. Machine learning is being continuously improved to allow faster characterization of signals of interest. Development activities/efforts may include, but are not limited to, program office support, studies, technical analysis, experimentation, and prototyping. FY 2024 development will also focus on further automation of BH capabilities in an effort to reduce the operational manning of the deployed systems as well as exploring an operational concept to expand over the horizon capacities.			
FY 2025 Plans: Continued execution of the program RDT&E plan for system upgrades and smaller form factor systems that can be forward deployed to develop a mesh network by means of remote operations across all BH systems within the fleet. Development activities/efforts may include, but are not limited to, program office support, studies, technical analysis, experimentation, and prototyping. Further, FY 2025 development will focus on automation of BH capabilities through machine learning to reduce the operational manning of the deployed systems as well as exploring an operational concept to expand over the horizon capacities.			
FY 2024 to FY 2025 Increase/Decrease Statement:			

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Air Force	Date: March 2024
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Appropriation/Budget Activity 3620F / 5	R-1 Program Element (Number/Name) PE 1206421SF / <i>Counterspace Systems</i>	Project (Number/Name) 65A013 / <i>BOUNTY HUNTER</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
FY 2025 increased due to anticipated inflationary adjustments of costs for developmental efforts.			
Accomplishments/Planned Programs Subtotals	12.017	2.155	2.201

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2023	FY 2024	FY 2025	FY 2025	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	Cost To	Total Cost
• SPAF 01 CTRSPC: <i>Counterspace Systems</i>	5.287	2.100	-	-	-	-	-	-	-	0.000	7.387
			Base	OCO	Total					Complete	

Remarks
 BH was established in FY 2016 as a Joint Capability Technology Demonstration (JCTD) project in response to a Joint Urgent Operational Need (JUON) in 2010. BH was established as a Program of Record (PoR) in March 2019.

D. Acquisition Strategy
 Contracts funded for development efforts supporting the BH Program Management Office (PMO) shall be awarded to the COLSA Corporation through FY 2025. The PMO will re-compete the contract every five years to ensure continued alignment with program goals and objectives.

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

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Product Development (\$ in Millions)				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			
Bounty Hunter Equipment	MIPR	Navy Research Laboratory : TBD	-	0.924	Nov 2022	-		-		-		-	Continuing	Continuing	-
Bounty Hunter Developmental Test Support	PO	AFLCMC/HNCP : TBD	-	0.298		0.416		0.309		-		0.309	Continuing	Continuing	-
Bounty Hunter Development	SS/CPFF	COLSA : Huntsville, AL	-	0.651	Mar 2023	1.590	Mar 2024	1.738	Mar 2025	-		1.738	Continuing	Continuing	-
Bounty Hunter Machine Learning (ML)	C/CPFF	COLSA : Huntsville, AL	-	10.000	Jun 2023	-		-		-		-	Continuing	Continuing	-
Subtotal			-	11.873		2.006		2.047		-		2.047	Continuing	Continuing	N/A

Support (\$ in Millions)				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			
Bounty Hunter Civilian Pay DCA	TBD	USAF : Hanscom AFB, MA	-	0.144	Oct 2022	0.149	Oct 2023	0.154	Oct 2024	-		0.154	Continuing	Continuing	-
Subtotal			-	0.144		0.149		0.154		-		0.154	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	
Project Cost Totals		-	12.017	2.155	2.201	-	2.201	Continuing	Continuing	N/A

Remarks

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

Appropriation/Budget Activity 3620F / 5	R-1 Program Element (Number/Name) PE 1206421SF / <i>Counterspace Systems</i>	Project (Number/Name) 65A013 / <i>BOUNTY HUNTER</i>
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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

Bounty Hunter	
Bounty Hunter Incremental Development	
Bounty Hunter Ops System #1 Operations	
Bounty Hunter Ops System #2 Operations	
Bounty Hunter Ops System #3 Operations	
Bounty Hunter Ops System #4 Operations	
Bounty Hunter Ops System #5 Production	
Bounty Hunter Ops System #5 Operations	
Bounty Hunter Trainer #1 Operations	
Bounty Hunter Trainer #2 Operations	
Bounty Hunter Trainer #3 Production	
Bounty Hunter Trainer #3 Operations	

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

Appropriation/Budget Activity 3620F / 5	R-1 Program Element (Number/Name) PE 1206421SF / <i>Counterspace Systems</i>	Project (Number/Name) 65A013 / <i>BOUNTY HUNTER</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Bounty Hunter</i>				
Bounty Hunter Incremental Development	1	2023	4	2029
Bounty Hunter Ops System #1 Operations	1	2023	4	2029
Bounty Hunter Ops System #2 Operations	1	2023	4	2029
Bounty Hunter Ops System #3 Operations	4	2023	4	2029
Bounty Hunter Ops System #4 Operations	4	2023	4	2029
Bounty Hunter Ops System #5 Production	1	2023	3	2023
Bounty Hunter Ops System #5 Operations	4	2023	4	2029
Bounty Hunter Trainer #1 Operations	1	2023	4	2029
Bounty Hunter Trainer #2 Operations	1	2023	4	2029
Bounty Hunter Trainer #3 Production	1	2023	3	2024
Bounty Hunter Trainer #3 Operations	4	2024	4	2029