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<b>Exhibit R-2, RDT&amp;E Budget Item Justification: PB 2023 Air Force</b>											<b>Date: April 2022</b>	
<b>Appropriation/Budget Activity</b> 3620F: <i>Research, Development, Test &amp; Evaluation, Space Force I BA 7: Operational Systems Development</i>					<b>R-1 Program Element (Number/Name)</b> PE 1203620SF / <i>National Space Defense Center</i>							
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	-	2.590	1.280	2.856	0.000	2.856	0.000	0.000	0.000	0.000	0.000	6.726
670004: <i>OTHER STRATCOM ACTIVITIES</i>	-	2.590	1.280	2.856	0.000	2.856	0.000	0.000	0.000	0.000	0.000	6.726
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This program develops and integrates Battle Management and Command and Control (BMC2) applications for the Joint Task Force - Space Defense (JTF-SD). JTF-SD is one of two subordinate commands to USSPACECOM and has the responsibility to protect and defend space assets from both terrestrial and space-based threats. The JTF-SD executes its mission through its operations center, the National Space Defense Center (NSDC) which was previously referred to as the Joint Interagency Combined Space Operations Center. NSDC efforts include integrating hardware and software prototypes to support various networks developed by mission partners and integrating applications developed by the Space C2 program to ensure relevant and accurate situational awareness to mission partners. NSDC also conducts early prototyping efforts to inform JTF-SD's ability to generate informed BMC2 and space superiority requirements for the acquisition community. The JTF-SD (and NSDC) allows the national security space community to effectively respond to space threat events and will have the capability to develop, test, and integrate new space system tactics, techniques and procedures (TTPs) in support of both DoD and Intelligence Community operations.

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>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Previous President's Budget	2.687	1.280	0.000	0.000	0.000
Current President's Budget	2.590	1.280	2.856	0.000	2.856
Total Adjustments	-0.097	0.000	2.856	0.000	2.856
• 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	-0.097	0.000			
• Other Adjustments	0.000	0.000	2.856	0.000	2.856

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<b>Appropriation/Budget Activity</b> 3620F: <i>Research, Development, Test &amp; Evaluation, Space Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1203620SF / <i>National Space Defense Center</i>
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**Change Summary Explanation**

The FY 2022 President's Budget submittal did not reflect FY 2023 through FY 2026 funding. Therefore, an explanation of the change between the two budget positions for FY 2023 cannot be made in a relevant manner.

**C. Accomplishments/Planned Programs (\$ in Millions)**

	FY 2021	FY 2022	FY 2023
<b>Title:</b> Application Development	2.590	1.280	2.856
<b>Description:</b> Develop and field Space Battle Management Command and Control capabilities.			
<b>FY 2022 Plans:</b> FY 2022 Plans: Continue to analyze, assess, and provide operations center support for mission partner and Intelligence Community networks and achieve authorization to connect to JTF-SD infrastructure. Partner with test agency to perform developmental and operational test activities and shadow operations for agile DevOps environment. Increase integration efforts for Space C2 applications. Implement system resiliency and situational awareness capability necessary to operate in the contested space domain. Activities may include, but are not limited to program office support, studies, technical analysis, experimentation, and prototyping.			
<b>FY 2023 Plans:</b> FY 2023 Plans: Continue to analyze, assess, and provide operations center support for mission partner and Intelligence Community networks. Partner with test agency to perform developmental and operational test activities and shadow operations for agile DevOps environment. Increase integration efforts for Space C2 applications. Implement system resiliency and situational awareness capability necessary to operate in the contested space domain. Activities may include, but are not limited to program office support, studies, technical analysis, experimentation, and prototyping.			
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> +\$1.491M increase compared to FY22. FY22 funding was reduced by the Department to account for prior year balances; FY23 funding level is necessary to continue required development, integration and testing efforts.			
<b>Accomplishments/Planned Programs Subtotals</b>	2.590	1.280	2.856

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

N/A

**Remarks**

**E. Acquisition Strategy**

NSDC provides funds to Department of the Air Force, DoD, and other partner organizations to execute on their contracts in support of NSDC requirements. Additionally, NSDC funding secures contract support to develop and document the technical baseline and support major test and transition activities during each fiscal year.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Air Force** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 3620F / 7	<b>R-1 Program Element (Number/Name)</b> PE 1203620SF / National Space Defense Center	<b>Project (Number/Name)</b> 670004 / OTHER STRATCOM ACTIVITIES
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<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
SHADOW OPERATIONS CENTER DEVELOPMENT	Various	Various : Colorado Springs, CO	-	0.180	Jan 2021	-		-		-		-	0.000	0.180	-
BMC2 APPLICATION DEVELOPMENT AND INTEGRATION	Various	Various: : Colorado Springs, CO	-	1.006	Jan 2021	0.600	Mar 2022	1.356	Jan 2023	-		1.356	Continuing	Continuing	-
SYSTEM ENGINEERING	Various	Various: : Colorado Springs, CO	-	-		0.330	May 2022	0.500	Dec 2022	-		0.500	0.000	0.830	-
<b>Subtotal</b>			-	1.186		0.930		1.856		-		1.856	Continuing	Continuing	N/A

<b>Management Services (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
A&AS	Various	Various: : Colorado Springs, CO	-	0.502	Jan 2021	0.250	Apr 2022	0.600	Jan 2023	-		0.600	Continuing	Continuing	-
FFRDC	Various	Various: : Colorado Springs, CO	-	0.902	Dec 2020	0.100	Mar 2022	0.400	Jan 2023	-		0.400	Continuing	Continuing	-
<b>Subtotal</b>			-	1.404		0.350		1.000		-		1.000	Continuing	Continuing	N/A

	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract	
<b>Project Cost Totals</b>		-	2.590	1.280	2.856	-	2.856	Continuing	Continuing	N/A

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2023 Air Force		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 3620F / 7	<b>R-1 Program Element (Number/Name)</b> PE 1203620SF / <i>National Space Defense Center</i>	<b>Project (Number/Name)</b> 670004 / <i>OTHER STRATCOM ACTIVITIES</i>

FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
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>NSDC INFRASTRUCTURE</b>	
SUSTAINMENT/SUPPORT	[REDACTED]
<b>BMC2 APPLICATION DEVELOPMENT AND INTEGRATION</b>	
APPLICATION DEVELOPMENT	[REDACTED]
<b>SHADOW OPS CENTER</b>	
DEVELOPMENT	[REDACTED]

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Air Force		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 3620F / 7	<b>R-1 Program Element (Number/Name)</b> PE 1203620SF / <i>National Space Defense Center</i>	<b>Project (Number/Name)</b> 670004 / <i>OTHER STRATCOM ACTIVITIES</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>NSDC INFRASTRUCTURE</i></b>				
SUSTAINMENT/SUPPORT	1	2021	4	2023
<b><i>BMC2 APPLICATION DEVELOPMENT AND INTEGRATION</i></b>				
APPLICATION DEVELOPMENT	1	2021	4	2023
<b><i>SHADOW OPS CENTER</i></b>				
DEVELOPMENT	1	2021	4	2021