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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Air Force **Date:** May 2021

Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1203873F I Ballistic Missile Defense Radars
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	-	15.335	0.000	0.000	0.000	0.000	-	-	-	-	-	-
674820: Sensor Development	-	15.335	0.000	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

No FY 2022 funding requested.

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 2020</u>	<u>FY 2021</u>	<u>FY 2022 Base</u>	<u>FY 2022 OCO</u>	<u>FY 2022 Total</u>
Previous President's Budget	15.881	0.000	0.000	0.000	0.000
Current President's Budget	15.335	0.000	0.000	0.000	0.000
Total Adjustments	-0.546	0.000	0.000	0.000	0.000
• 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	-0.546	0.000			
• Other Adjustments	0.000	0.000	0.000	0.000	0.000

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

	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>
Title: ADPE Rehost Upgrade, Phase II	15.335	0.000	0.000
Description: The Automated Data Processing Equipment (ADPE) Rehost project Phase II, Part 1 is complete. The ADPE-R project Phase II, Part 2 will transition to a traditional acquisition approach with two distinct capability deliveries. The Mission Computer replacement will be completed first, followed by a modernized Signal Processor, Radar Controller and Receiver. The approach will modernize these systems with an innovative hardware and software-based open architecture solution supported by switching solutions and modernized development environments.			
FY 2021 Plans:			

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
N/A				
FY 2022 Plans: N/A				
Accomplishments/Planned Programs Subtotals		15.335	0.000	0.000
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy See PE 1203873SF, Ballistic Missile Defense Radars, Project 674820, Sensor Development				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Air Force **Date:** May 2021

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 1203873F / <i>Ballistic Missile Defense Radars</i>	Project (Number/Name) 674820 / <i>Sensor Development</i>
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Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
ADPE Phase II, Development; S/W & H/W integration	TBD	Various : TBD	-	11.555	Jan 2020	-		-		-		-	-	-	-
Subtotal			-	11.555		-		-		-		-	-	-	N/A

Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
Support (integration)	C/CPAF	various : TBD	-	1.190	Feb 2020	-		-		-		-	-	-	-
Subtotal			-	1.190		-		-		-		-	-	-	N/A

Management Services (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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 Management Support	TBD	Various : TBD	-	2.590	Mar 2020	-		-		-		-	-	-	-
Subtotal			-	2.590		-		-		-		-	-	-	N/A

			Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	15.335	0.000	-	-	-	-	-	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Air Force		Date: May 2021
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FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
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

ADPE Rehost Phase II	
Prototype Phase I completion MDA Funded RDT&E	█
Prototype Phase 2 Requirements, Infrastructure & Early Development	█
Phase 2 Hardware/Software Development	█

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Air Force		Date: May 2021
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>ADPE Rehost Phase II</i>				
Prototype Phase I completion MDA Funded RDT&E	1	2020	1	2020
Prototype Phase 2 Requirements, Infrastructure & Early Development	3	2020	4	2020
Phase 2 Hardware/Software Development	3	2020	4	2020