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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Air Force **Date:** February 2020

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0305984F / <i>Personnel Recovery Command & Ctrl (PRC2)</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	-	2.385	2.133	2.207	0.000	2.207	2.605	2.651	2.699	2.749	Continuing	Continuing
675221: <i>Personnel Recovery Command and Control (PRC2)</i>	-	2.385	2.133	2.207	0.000	2.207	2.605	2.651	2.699	2.749	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project funds operational development necessary to acquire, modify, and sustain a segment of Air Force's C2 capabilities and services associated with Personnel Recovery (PR). The Personnel Recovery Command and Control (PRC2) program develops and delivers tools and services for planning, collaborating and managing search and rescue efforts, as well as disseminating related information to all personnel recovery mission coordinators across the PR network. PRC2 provides an adaptive and networked system, delivering timely situational awareness information supporting personnel accountability and recovery mission management worldwide. PRC2 delivers a globally accessible, collaborative, inter-operable and integrated set of capabilities to prevent, prepare for and respond to joint/coalition military personnel recovery activities, and civilian rescue missions. The Joint Personnel Recovery (JPR) Initial Capability Document (ICD) (2012) articulates capabilities needed for PRC2. Annex A to the Personnel Recovery Mission Version 3.0 is the requirement document for initial and full operational capability (IOC/FOC) criteria.

The system collects, stores and delivers personnel/identity biometric data, emergency locator beacon registrations, Isolated Personnel (IP) reports, evasion plans of action, incident reports and other information management capabilities. The information is used for predictive, preventive and personnel vulnerability analysis and assessment in support of PR across the Department of Defense and other national and international entities. Activities also include studies and analysis to support both current program planning and execution, as well as future program planning.

In FY 2021, Personnel Recover Mission Manager (PRMM) modifications will continue to use an Agile Development Security Operations (DevSecOps) strategy to develop, test and have field-ready PRMM versions in two week increments (sprints) with capability to field by individual story. The modifications will improve/validate IP events/alerts and enable case files for Defense Prisoner of War/Missing Personnel Office (DPMO) and Joint Personnel Recovery Agency (JPRA). PRMM modifications will reflect the requirements and priorities identified by Air Combat Command (ACC) as the personnel recovery environment evolves to meet the needs of the warfighter and personnel recovery efforts.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver PRC2 weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605831F.

The FY 2021 funding request was reduced by \$0.345 million to account for the availability of prior year execution balances.

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.

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B. Program Change Summary (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	2.466	2.133	2.556	0.000	2.556
Current President's Budget	2.385	2.133	2.207	0.000	2.207
Total Adjustments	-0.081	0.000	-0.349	0.000	-0.349
• 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	-0.081	0.000			
• Other Adjustments	0.000	0.000	-0.349	0.000	-0.349

Change Summary Explanation

The FY 2021 funding request was reduced by \$0.345 million to account for the availability of prior year execution balances and \$0.004M for other reprogrammings.

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: PRC2 - PRMM Development	2.185	1.933	2.007	0.000	2.007
Description: PRC2 will use an Agile Development Security Operations (DevSecOps) strategy to test and field tools and services for planning and managing search and rescue efforts, and disseminate the related information for personnel recovery.					
FY 2020 Plans: - Develop, test and have field-ready PRMM versions X.X.X through X.X.X.B in two-week increments with capability to field by individual story; development effort will encompass changes to a more Map Centric and user intuitive design, and an interface with Common Distress Reporting System (CDRS) to provide various user interface upgrades and application improvements for Personnel Recovery Coordination					
FY 2021 Base Plans: - Will develop, test and have field-ready PRMM versions X.X.X through X.X.X.C in two-week increments with capability to field by individual story; development effort will encompass changes to a more Map Centric and					

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
user intuitive design, and an interface with Common Distress Reporting System (CDRS) to provide various user interface upgrades and application improvements for Personnel Recovery Coordination FY 2021 OCO Plans: N/A FY 2020 to FY 2021 Increase/Decrease Statement: Funding increased due to sprints.					
Title: PRC2 - PRMM Test and Evaluation Description: Test and Evaluation FY 2020 Plans: - Test and field PRMM Versions X.X.X through X.X.X.B FY 2021 Base Plans: - Will test and field PRMM Versions X.X.X through X.X.X.C FY 2021 OCO Plans: N/A FY 2020 to FY 2021 Increase/Decrease Statement: N/A	0.200	0.200	0.200	0.000	0.200
Accomplishments/Planned Programs Subtotals					
	2.385	2.133	2.207	0.000	2.207

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
• OPAF 03 834520: <i>Theater Battle Mgt C2 System</i>	1.301	0.323	0.347	-	0.347	0.372	0.396	0.421	0.429	Continuing	Continuing

Remarks

E. Acquisition Strategy

PRC2 product support is provided to the program office by the 517th Software Engineering Squadron (517 SWES), Hill AFB Utah, in accordance with a memorandum of agreement and on a fee for service basis. This strategy to utilize the 517 SWES for agile product development and sustainment was reviewed and approved by

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<p>the Air Force Program Executive Officer for Digital, and implemented in mid-FY 2014. The work done by the 517 SWES includes, but is not limited to, modernization development, sustainment support services, and software maintenance of the PRC2 system.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Air Force **Date:** February 2020

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0305984F / <i>Personnel Recovery Command & Ctrl (PRC2)</i>	Project (Number/Name) 675221 / <i>Personnel Recovery Command and Control (PRC2)</i>
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Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
PRC2 - PRMM Agile Software Development	PO	Ogden ALC : Hill AFB, UT	-	2.175	Dec 2018	1.923	Dec 2019	1.997	Dec 2020	-		1.997	Continuing	Continuing	-
Subtotal			-	2.175		1.923		1.997		-		1.997	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
PRC2 - PRMM Test and Evaluation	PO	45th Test Squadron : Eglin AFB, FL	-	0.200	Dec 2018	0.200	Dec 2019	0.200	Dec 2020	-		0.200	Continuing	Continuing	-
Subtotal			-	0.200		0.200		0.200		-		0.200	Continuing	Continuing	N/A

Management Services (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
PRC2 - PRMM Program Support	TBD	Various : Hill AFB, UT	-	0.010	Mar 2019	0.010	Mar 2020	0.010	Mar 2021	-		0.010	Continuing	Continuing	-
Subtotal			-	0.010		0.010		0.010		-		0.010	Continuing	Continuing	N/A

Project Cost Totals	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
	-	2.385	2.133	2.207	-	2.207	Continuing	Continuing	N/A

Remarks

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Air Force		Date: February 2020
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Personnel Recovery Command & Control (PRC2)</i>				
PRMM Ver X.X.X - X.X.X.A Development, Testing and Fielding	2	2019	1	2020
PRMM Ver X.X.X - X.X.X.B Development, Testing and Fielding	2	2020	1	2021
PRMM Ver X.X.X - X.X.X.C Development, Testing and Fielding	2	2021	1	2022
PRMM Ver X.X.X - X.X.X.D Development, Testing and Fielding	2	2022	1	2023
PRMM Ver X.X.X - X.X.X.E Development, Testing and Fielding	2	2023	1	2024
PRMM Ver X.X.X - X.X.X.F Development, Testing and Fielding	2	2024	1	2025
PRMM Ver X.X.X - X.X.X.G Development, Testing and Fielding	2	2025	4	2025