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

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs</i>	R-1 Program Element (Number/Name) PE 0608920F / <i>Defense Enterprise Accounting and Management System (DEAMS) - Software Pilot Pro</i>
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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	-	0.000	0.000	135.263	0.000	135.263	-	-	-	-	-	-
685178: <i>DEAMS Continuous Capability Development</i>	-	0.000	0.000	135.263	0.000	135.263	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

Note
 In FY2022, DEAMS Continuous Capability Development (CCD) budget controls have been realigned from Research, Development, Test & Evaluation (RDT&E) Program Element (PE) 0901554F Project 675178, Operations & Maintenance (O&M) AG/SAG 042A, and Other Procurement Line Item 834470 and consolidated into Budget Activity 8 in PE 0608920F in order to participate in the DoD's Software & Digital Technology Pilot Program.

A. Mission Description and Budget Item Justification

This effort is not a new start. The FY 2018 NDAA Sections 873/874 directed OSD to streamline software development. The Defense Enterprise Accounting and Management System (DEAMS) has been included in an OSD pilot initiative in which all lifecycle funding will be tracked under BA08, Software and Digital Technology Pilot Programs. Pilot programs will test the ability to execute modern software development practices encompassing development, procurement, modification and maintenance activities. The DEAMS pilot program in PE 0608920F, RDT&E, Air Force, BA08 includes Air Force RDT&E, Other Procurement, and Operations & Maintenance funds transferred from PE 0901554F.

DEAMS is a commercial-off-the-shelf (COTS), Oracle-based software implementation which provides an auditable, modern accounting and finance management capability. It is the Department of the Air Force's (DAF) core accounting and financial management solution and is a key component of the DAF's long-term business process improvements needed to sustain auditability and correct financial system weaknesses. DEAMS supports 17,000 users at 170 installations world-wide supporting all Air Force Major Commands, the U.S. Space Force, and Unified Commands where the DAF is the executive agent.

DEAMS is a joint DAF and United States Transportation Command (USTRANSCOM) Enterprise Resource Planning (ERP) Program that replaces numerous inefficient and/or obsolete legacy accounting and finance systems and provides core funds execution management functions consistent with financial management laws, regulations and policy, general ledger, funds management, payments, receivables, cost and revenues, and fiduciary reporting.

The DAF has transitioned DEAMS to the Capability Support Phase, in which enhancements are managed through the Agile software development backlog by the Program Management Office (PMO) and Function Management Office (FMO). Enhancement activities will be implemented via a process of development cycles, in which usable capability is produced after every iteration. The PMO construct, along with the application of Agile principles allows the program to properly plan system requirements, deliver early capability to the end users, achieve early return on investment of taxpayer dollars, mitigate risk, reduce waste, effectively respond to change, and continuously improve processes.

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The DAF is planning to increase DEAMS usage within the acquisition community to include acquisition program executive offices, laboratories, test centers, and air logistics complexes. These deployments will add an additional 4,500 users for a total of 21,500 users.

DEAMS is compliant with the Clinger-Cohen Act and the DoD's Business Enterprise Architecture (BEA). DEAMS is key to DAF compliance with the Financial Improvement and Audit Readiness (FIAR) requirement. This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

This program element may include necessary emergent or unanticipated civilian pay expenses required to manage, execute, and deliver DEAMS 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 0605831F. In FY20 0.000M was expended for civilian pay expenses in this program element, and in FY21 0.000M is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 8, Software and Digital Technology Pilot Program because this budget activity includes funding provided for expenses necessary for agile development, test and evaluation, procurement, production and modification, and the operation and maintenance of these programs.

B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	135.263	0.000	135.263
Total Adjustments	0.000	0.000	135.263	0.000	135.263
• 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	135.263	0.000	135.263

Change Summary Explanation

Current PB: Funding increased due to transfer of RDT&E, AF; OPAF; and O&M funds from PE 0901554F to PE 0608920F. Respective FY21 funding totaled \$121.5M. FY22 request increased to \$135M to enable an increase in the number of development teams to deliver maximum capability sooner and sunset legacy systems.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
Title: DEAMS Continuous Capability Development (CCD) Product Development	0.000	0.000	54.400

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
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<p>Description: DEAMS CCD system capabilities will be developed and enhanced through completion of iterative development cycles in accordance with an Agile software development strategy. The DAF is implementing a steady-state incremental development tempo that is more complimentary to the Agile software development process. Development activities include requirements analysis, design, build, test, data conversion, migration from legacy system as required, implementation into the DEAMS baseline, and the resolution of deficiency reports and defects. Activities also include various Advisory and Assistance Services (A&AS) and Program Management Administration (PMA) activities to support the aforementioned development efforts.</p> <p>FY 2021 Plans: See PE 0901554F, Defense Accounting and Management System (DEAMS), Project Number 675178, DEAMS Continuous Capability Development.</p> <p>FY 2022 Plans:</p> <ul style="list-style-type: none"> - Will continue incremental planning and support initiatives to organize Continuous Capability Development (CCD) backlog requirements into capability-delivering epics. Planned capabilities include, but are not limited to the following: - Will develop additional Business Intelligence (BI) functionality to enhance reporting capability - Will implement governance capabilities to effectively shape system behavior to DAF finance business rules and workflow - Will continue implementing additional Treasury Direct Dispersing capability to bring DEAMS into compliance with OUSD Treasury Disbursing and Collections Initiatives including, but not limited to implementing Military Cost Pay Accounting, implementing acquisition data standards for contract writing systems, and developing accounting capability for base supply purchases - Will continue to implement Oracle's Splunk platform as an OSD Cybersecurity pilot program to more effectively manage data and enhance decision-space and system performance - Will continue Operational Test and Evaluation as required by supporting the Adaptive, Relevant Testing concept; expanding automated test activities to decrease time in test and increase product quality; and test, validate, and coordinate capability deployments to the user community - Will leverage Agile methods and cadence to resolve existing/new defects and add enhancements in the production environment - Will research, design, and build a secure and continuous process for development and delivery of capabilities (Dev/Sec/Ops) - Will restructure the system architecture to improve performance of the End of Day/End of Month processing - Will continue migration/development/transition activities to implement Cloud solution - Will refine near-term technical requirements/tools to ensure smooth operation of DEAMS and mature development capabilities <p>FY 2021 to FY 2022 Increase/Decrease Statement:</p>			
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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs</i>		R-1 Program Element (Number/Name) PE 0608920F / <i>Defense Enterprise Accounting and Management System (DEAMS) - Software Pilot Pro</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
Increase aligns budget profile with the estimated funding required to increase the number of development teams to deliver maximum capability sooner and sunset legacy systems.				
<p>Title: Deployment</p> <p>Description: DEAMS will ultimately deploy to approximately 4,500 additional financial managers assigned to major acquisition programs, sustainment centers, reimbursable laboratories, and launch facilities at 15 Air and Space Force locations. The system is currently deployed to all DAF locations, in full or partial capacity; all future deployments will complete the functionality at these locations.</p> <p>FY 2021 Plans: See PE 0901554F, Defense Accounting and Management System (DEAMS), Line Item 834470, DEAMS.</p> <p>FY 2022 Plans: - Will purchase software licenses for scheduled FY23 deployments (exact qty and user base will vary based on backlog priority)</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Funding for this effort remains relatively unchanged with respect to FY21 request (PE 0901554F, Defense Accounting and Management System (DEAMS), Line Item 834470, DEAMS).</p>		-	0.000	3.103
<p>Title: DEAMS Continuous Capability Development (CCD) Support and Sustainment</p> <p>Description: DEAMS capabilities will be sustained through numerous Operations & Support activities designed to execute an iterative steady-state software sustainment process. Sustainment activities include day-to-day operations and support, production environment management, system performance, monitoring and tuning, technical debt reduction, refreshes/updates to databases, and information processing capabilities. Activities also include various Advisory and assistance Services (A&AS) and Program Management Administration (PMA) activities to support the aforementioned sustainment operations as well as operational support at multiple Data Centers (DISA/Oracle).</p> <p>FY 2021 Plans: See OMAF Operating Forces, Activity Group, Servicewide Activities, Sub-Activity Group 42A, Administration.</p> <p>FY 2022 Plans: - Will continue to release new capability into production using Agile methodology and established cadence - Will continue to optimize performance by conducting tuning activities and removing unused code and interfaces - Will continue to deploy fixes to address defects and user-identified problems - Will continue to ensure system security and support the Risk Management Framework (RMF) through continuous monitoring activities</p>		-	0.000	77.760

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
- Will continue to support 24/7 operations for current (17,000) and expanding global user community through activities such as Help Desk operations, functional expertise, technical support, and maintaining licenses - Will continue to improve system efficiency by supporting continuous processes for secure development and delivery of capabilities (Dev/Sec/Ops) and posturing the production system architecture for cloud migration - Will continue program support activities and obtain Authority to Proceed (ATP) for the BCAC Capability Support phase FY 2021 to FY 2022 Increase/Decrease Statement: Funding for this effort remains unchanged with respect to FY21 request (Operating Forces, Activity Group, Servicewide Activities, Sub-Activity Group 42A, Administration.			
Accomplishments/Planned Programs Subtotals	0.000	0.000	135.263

D. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• OPAF 03 834470: <i>Defense Enterprise Accounting & Mgt Sys</i>	2.285	0.899	-	-	-	-	-	-	-	-	-
• RDTE 07 0901554F: <i>Defense Enterprise Acntng and Mgt Sys (DEAMS)</i>	40.239	40.564	-	-	-	-	-	-	-	-	-

Remarks

E. Acquisition Strategy
 The DAF concluded Increment I deployment and has transitioned DEAMS to the Business Capability Acquisition Cycle's (BCAC) Capability Support Phase. Implementation is accomplished via the Continuous Capability Development program in which requirements are prioritized by the associated Program and Functional Management Offices and organized in the requirements backlog. DEAMS capabilities are developed and sustained in accordance with the selected Agile software implementation strategy. Development activities include requirements analysis, design, build, test, data conversion, migration from legacy system as required, implementation into the DEAMS baseline, and the resolution of deficiency reports and defects. Sustainment activities include day-to-day operations and support, production environment management, and numerous system performance improvement initiatives. This strategy has been refined to enable continual enhancements and process improvements for the life of the system.

The DEAMS program will develop functionality on cadence and release on demand. User experience and mission impact will be considered when determining release dates during the execution cycle.

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

Appropriation/Budget Activity 3600 / 8	R-1 Program Element (Number/Name) PE 0608920F / Defense Enterprise Accounting and Management System (DEAMS) - Software Pilot Pro	Project (Number/Name) 685178 / DEAMS Continuous Capability Development
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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			
DEAMS: Rapid Acquisition System Integrator	C/Variou	TBD : TBD	-	-		-		10.200	Dec 2021	-		10.200	-	-	-
DEAMS: Direct mission Support (DBA Support, Architecture Services, FMO SME Support, HW/SW)	Variou	Various : Various	-	-		-		34.832	Jan 2022	-		34.832	-	-	-
Subtotal			-	-		-		45.032		-		45.032	-	-	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			
DEAMS: Rapid Acquisition System Integrator O&S	C/Variou	TBD : TBD	-	-		-		26.700	Dec 2021	-		26.700	-	-	-
DEAMS: Direct Mission Support (Help Desk, DBA Support, FMO SME Support, Environments)	Variou	Various : Various	-	-		-		40.302	Jan 2022	-		40.302	-	-	-
DEAMS: Production Licenses	C/FFP	Not specified. : TBD	-	-		-		3.103	Nov 2021	-		3.103	-	-	-
DEAMS: License Maintenance	C/FFP	Not specified. : TBD	-	-		-		8.217	Jan 2022	-		8.217	-	-	-
Subtotal			-	-		-		78.322		-		78.322	-	-	N/A

Test and Evaluation (\$ 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			
DEAMS: Test Services from AFOTEC, JITC,	Variou	Various : TBD	-	-		-		0.867	Jan 2022	-		0.867	-	-	-

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Air Force		Date: May 2021
Appropriation/Budget Activity 3600 / 8	R-1 Program Element (Number/Name) PE 0608920F / Defense Enterprise Accounting and Management System (DEAMS) - Software Pilot Pro	Project (Number/Name) 685178 / DEAMS Continuous Capability Development

	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
DEAMS Inc 1																												
R12 Software Baseline Development	■																											
Reporting	■	■	■	■																								
Disbursing	■	■	■	■																								
Auditing	■	■	■	■																								
Follow-On Operational Test and Evaluation (FOT&E)						■	■	■	■																			
Capability Support Authority to Proceed (CS ATP)											■	■	■	■														
DEAMS CCD Requirements Implementation																												
Acquisition Planning	■	■	■	■																								
Agile Software Development Contract Award											■	■	■	■														
Continuous Capability Development																■	■	■	■	■	■	■	■	■	■	■	■	

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Air Force		Date: May 2021
Appropriation/Budget Activity 3600 / 8	R-1 Program Element (Number/Name) PE 0608920F / <i>Defense Enterprise Accounting and Management System (DEAMS) - Software Pilot Pro</i>	Project (Number/Name) 685178 / <i>DEAMS Continuous Capability Development</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>DEAMS Inc 1</i>				
R12 Software Baseline Development	1	2020	1	2020
Reporting	1	2020	4	2020
Disbursing	1	2020	4	2020
Auditing	1	2020	3	2020
Follow-On Operational Test and Evaluation (FOT&E)	2	2021	3	2021
Capability Support Authority to Proceed (CS ATP)	4	2021	4	2021
<i>DEAMS CCD Requirements Implementation</i>				
Acquisition Planning	1	2020	3	2021
Agile Software Development Contract Award	4	2021	4	2021
Continuous Capability Development	1	2022	4	2022

Note

Remaining Inc 1 Requirements will move to CCD as of 1st Quarter FY22