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

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 7:

PE 0708611F / Support Systems Development

Date: February 2019

Operational Systems Development

Appropriation/Budget Activity

COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To	Total Cost
	I cai s	1 1 2010	1 1 2013	Dase	000	IOtai	1 1 2021	1 1 2022	1 1 2023	1 1 2027	Complete	OUSL
Total Program Element	-	11.362	4.497	0.539	0.000	0.539	11.860	13.746	12.707	10.448	Continuing	Continuing
675042: Log Application Logisitics Integration (LALI)	-	11.362	4.497	0.539	0.000	0.539	9.875	13.746	12.707	10.448	Continuing	Continuing
675044: Logistics Systems Development (LSD)*	-	0.000	0.000	0.000	0.000	0.000	1.985	0.000	0.000	0.000	0.000	1.985

^{*}This project's R-2a exhibit has been suppressed due to funding not beginning until after FY 2020

A. Mission Description and Budget Item Justification

Logistics, Installations and Mission Support - Enterprise View (LIMS-EV) capability provides a Business Intelligence (BI) and Decision Support (DS) solution for the A4 community. USAF decision-makers, maintainers and planners require increased access to comprehensive data related to platform mission, operational status, support equipment availability and parts. This data is required to be accessible in a number different configurations ranging from preformatted executive dashboards to highly customizable ad-hoc reporting to enable improved decision making based on accurate, near-real-time data available in a simple self-service environment that provides detailed supply chain data from lowest levels all the way up to operational planners and senior leadership. By aggregating and exposing data from over 130 data sources, LIMS-EV provides warfighters with timely, authoritative information to make informed decisions.

The LIMS-EV capability is migrating, along with the rest of AF Data Services, from GCSS-AF heritage to a commercial government cloud-configured environment. That move will result in improved performance, greater scalability and reliability, enhanced ability to leverage Software as a Service (SAAS), and reduced operational costs from utilization of common infrastructure. This move will also result in implementation of new system engineering processes based on agile software development/rapid prototyping via the CCE 2.0 dev/test/production environments and Data Services development laboratories and will leverage cloud best practices including streamlined promotion and deployment processes, automating previously manual code reviews, security testing, and deployment.

LIMS-EV funding supports the ability to more effectively work in the cloud environment and to exploit emerging technology to enhance existing capabilities, extend access to mobile users, expand the amount of data accessible, and incorporate more predictive capabilities into the current reporting capability. This will extend existing BI capabilities to provide configurable alerting, predictive/what-if analysis, mobile applications and better integrate functionality based on priority requirements as defined/approved by the A4 governance bodies.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver our integrated logistics capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, 0605833F.

The FY 2019 funding request was reduced by \$5.034 million to account for the availability of prior year execution balances.

PE 0708611F: Support Systems Development

Air Force

Page 1 of 8

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

Date: February 2019

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development

PE 0708611F / Support Systems Development

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	9.362	4.497	12.648	0.000	12.648
Current President's Budget	11.362	4.497	0.539	0.000	0.539
Total Adjustments	2.000	0.000	-12.109	0.000	-12.109
 Congressional General Reductions 	0.000	0.000			
 Congressional Directed Reductions 	0.000	0.000			
 Congressional Rescissions 	0.000	0.000			
 Congressional Adds 	2.000	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	-12.109	0.000	-12.109

Change Summary Explanation

FY18 MRK-Investment Mark for Vehicle View lower-carbon solutions effort \$2.000M

PE 0708611F: Support Systems Development Air Force

Page 2 of 8

Exhibit R-2A, RDT&E Project J	Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force											February 2019			
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0708611F I Support Systems Development Project (Number/Name) 675042 I Log Application Logisitics Integration (LALI)							s			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost			
675042: Log Application Logisitics Integration (LALI)	-	11.362	4.497	0.539	0.000	0.539	9.875	13.746	12.707	10.448	Continuing	Continuing			
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-					

A. Mission Description and Budget Item Justification

Logistics, Installations and Mission Support - Enterprise View (LIMS-EV) capability provides a Business Intelligence (BI) and Decision Support (DS) solution for the A4 community. USAF decision-makers, maintainers and planners require increased access to comprehensive data related to platform mission, operational status, support equipment availability and parts. This data is required to be accessible in a number different configurations ranging from preformatted executive dashboards to highly customizable ad-hoc reporting to enable improved decision making based on accurate, near-real-time data available in a simple self-service environment that provides detailed supply chain data from lowest levels all the way up to operational planners and senior leadership. By aggregating and exposing data from over 130 data sources, LIMS-EV provides warfighters with timely, authoritative information to make informed decisions.

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This program element may include necessary civilian pay expenses required to manage, execute, and deliver our integrated logistics capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, 0605833F.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
Title: LIMS-EV Version 2.0	11.362	0.000	0.000
Description: Minor change requests for the Vehicle Management, Supply, Maintenance, Avionics, Propulsion, Repair Network, Support Equipment and Communication Security (COMSEC) communities while refactoring LIMS-EV to native cloud services.			
FY 2019 Plans:			

PE 0708611F: Support Systems Development

Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force			Date: F	ebruary 2019	1		
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0708611F / Support Systems Development	675042	roject (Number/Name) 75042 I Log Application Logisition ntegration (LALI)				
B. Accomplishments/Planned Programs (\$ in Millions)		I	FY 2018	FY 2019	FY 2020		
N/A							
FY 2020 Plans: N/A							
Title: LIMS-EV Version 3.0 Business Capability Acquisition Cycle (BCAC) Phase 3		-	4.497	0.53		
Description: Expanded, Scalable, Portable, Enterprise Logistics D	ata Accessibility						
FY 2019 Plans: Four Major Enhancements and 11 Minor change requests for the V Propulsion, Repair Network, Support Equipment and Communication support targeted initial offerings of the following capabilities: - Enable secure, elastic capability that automatically scales to on-descale and time of outages - Provide tiers of data storage efficiently tailoring data accessibility - Provide greater control to functional representatives to transform developer intervention - Provide greater functional self service provisioning capability - Implement Mobile Capability to support initiatives (i.e. Flight line of Expand ADHOC reporting capability without needing special data - Modernize expanded visualization capability, with greater consisted Expand access to new data feeds as well as unstructured and self expand access to new data feeds as well as unstructured and self expand access to new data feeds as well as unstructured and self expand access to new data feeds as well as unstructured and self expand access to new data feeds as well as unstructured and self expand access to new data feeds as well as unstructured and self expand access to new data feeds as well as unstructured and self expand access to new data feeds as well as unstructured and self expand access to new data feeds as well as unstructured and self expand access to new data feeds as well as unstructured and self expand access to new data feeds as well as unstructured and self expand access to new data feeds as well as unstructured and self expand access to new data feeds as well as unstructured and self expand access to new data feeds as well as unstructured and self expand access to new data feeds as well as unstructured and self expand access to new data feeds as well as unstructured and self expand access to new data feeds as well as unstructured and self expand access to new data feeds as well as unstructured for expand access to new data feeds as well as unstructured for expand access to new data feeds as well as unstructured for expand acces	con Security (COMSEC) communities to build the foundate emand peak needs, provides reliable response and reduct based on needs and costs data by revising reference tables and business rules with of the Future) comains. universes ency across application views. mi-structured data constraint analysis tion Vehicle Management, Supply, Maintenance, Avionics, on Security (COMSEC) communities that build on prior	ces					

PE 0708611F: Support Systems Development Air Force

UNCLASSIFIED Page 4 of 8

Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force			Date: F	ebruary 2019)
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0708611F / Support Systems Development	67504	ct (Number / 12 I Log Appl ration (LALI)	Name) ication Logisi	tics
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2018	FY 2019	FY 2020
- Implement a modeling & simulation Capability					
- Big Data analytics					
- Actuarial capability and reliability analysis					
- Incorporation of operational data such as flight profile data to su	upport deep performance analysis of weapon system comp	onents			
and supporting predictive modeling					
- Ability to configure and simulate different logistics outcomes bar	sed on known factors				
FY 2019 to FY 2020 Increase/Decrease Statement:					
Funding decreased from FY19 to FY20 due to late obligations an	nd expenditures in FY18.				

Accomplishments/Planned Programs Subtotals

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

N/A

Remarks

D. Acquisition Strategy

LIMS-EV will utilize services provided by the Air Force Common Computing Environment (CCE) Government Cloud Framework, migrating from the End-of-Life GCSS-AF Integration Framework. AFLCMC/HNII Data Services Program Management Office (PMO), as LIMS-EV Program Manager, is responsible to competitively acquire additional LIMS-EV capabilities using a variety of fixed price, labor hour, time and material, and cost plus contracts through the environment migration and within the CCE Framework.

LIMS-EV capabilities utilize services provided by the GCSS-AF Integration/CCE Framework. AFLCMC/HNII Data Services PMO, as LIMS-EV Program Manager, manages LIMS-EV development projects following the Agile/Rapid Prototyping software development release process.

LIMS-EV development projects will be implemented via the CCE development contract under oversight by AFLCMC/HNII Data Services Program Management Office, Wright-Patterson Air Force Base, Ohio.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

PE 0708611F: Support Systems Development

Air Force

UNCLASSIFIED
Page 5 of 8

R-1 Line #280

11.362

4.497

0.539

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

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

Project (Number/Name)

3600 / 7 PE 0708611F / Support Systems

Development

675042 I Log Application Logisitics
Integration (LALI)

Product Developme	nt (\$ in Mi	illions)		FY 2	018	FY 2	019	FY 2 Ba			2020 CO	FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
LALI LIMS-EV Systems Engineering Contractor Support (Product Development) LIMS-EV Version 2.0	C/CPFF	Leidos : Dayton, OH	-	11.362		-		-		-		-	Continuing	Continuing	-
LALI LIMS-EV Systems Engineering Contractor Support (Product Development) LIMS-EV Version 3.0 - Business Capability Acquisition Cycle	C/CPAF	Leidos : Dayton, OH	-	-		4.497		0.539		-		0.539	Continuing	Continuing	-
		Subtotal	-	11.362		4.497		0.539		-		0.539	Continuing	Continuing	N/A
			Prior					FY 2	020	FY:	2020	FY 2020	Cost To	Total	Target Value of

	Prior Years	FY 2018	FY 2	019	FY 2 Ba	 FY 2 OC	 FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	11.362	4.497		0.539	-	0.539	Continuing	Continuing	N/A

Remarks

PE 0708611F: Support Systems Development Air Force

UNCLASSIFIED
Page 6 of 8

Exhibit R-4, RDT&E Schedule Profile: PB 2020	Air F	orce																		Dat	e: Fe	ebru	ary 2	2019		
Appropriation/Budget Activity 3600 / 7	on/Budget Activity R-1 Program Element PE 0708611F / Suppos Development								port Systems 675042					5042	et (Number/Name) 2 I Log Application Logisitic ation (LALI)					cs						
		FY 2	018		FY	201	9		FY 2	2020			FY 2	2021		F	Y 202	2		FY	2023	 }	FY 20		2024	
	1	2	3	4	1 2	2 3	4	1	2	3	4	1	2	3	4	1	2 3	4	1	2	3	4	1	2	3	
Support Systems Developments PE 0708611F					,						·			·	'	·				'						
LIMS-EV Version 2.0																										
LIMS-EV Version 3.0 - Business Capability Acquisition Cycle (BCAC) 3																										

Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force			Date: February 2019
Appropriation/Budget Activity 3600 / 7	,	,	umber/Name) og Application Logisitics
	Development Systems	Integration	

Schedule Details

	St	art	Eı	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Support Systems Developments PE 0708611F				
LIMS-EV Version 2.0	4	2018	4	2019
LIMS-EV Version 3.0 - Business Capability Acquisition Cycle (BCAC) 3	2	2019	4	2024

Note

LIMS-EV Version 3.0 - Business Capability Acquisition Cycle (BCAC) 3 period of performance end date is 2Q 2025. IDECS limits schedule to 4Q 2024.

PE 0708611F: Support Systems Development Air Force

Page 8 of 8