Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

3600: Research, Development, Test & Evaluation, Air Force

PE 0305208F: Distributed Common Ground/Surface Systems

BA 7: Operational Systems Development

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete Cost
Total Program Element	-	82.348	63.514	7.498	-	7.498	27.606	24.988	23.410	23.831	Continuing Continuin
674826: Common Imagery Ground / Surface Systems	-	57.215	26.854	7.471	-	7.471	20.001	20.097	21.918	22.312	Continuing Continuin
675265: Common Imagery Processor (CIP)	-	10.709	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing Continuin
676025: Data Compression	-	14.424	29.699	0.027	-	0.027	7.605	4.891	1.492	1.519	Continuing Continuin
676028: Dynamic Time Critical Warfighting Capability	-	0.000	6.961	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing Continuin

^{*}FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

AF Distributed Common Ground Systems (DCGS) is a network-centric weapon system capable of tasking Intelligence, Surveillance and Reconnaissance (ISR) sensors and receiving, processing, exploiting, and disseminating (PED) data, information and intelligence from airborne, national, and commercial platforms and sensors. The weapon system consists of numerous active duty, Air National Guard, and mission partner sites interconnected by a robust communications infrastructure that allows collaborative reach-back operations. Operators correlate collected Geospatial Intelligence (GEOINT), Signals Intelligence (SIGINT), and Measurement and Signature Intelligence (MASINT) data to provide decision-quality information to the Joint Task Force (JTF) and below, including significant support to time-critical targeting. AF DCGS is the primary PED capability for the U-2, Global Hawk, Predator, Reaper and Project Liberty.

AF DCGS is modernizing through sustainment by integrating the necessary technologies and tools to provide increased capabilities and meet emerging and urgent operational needs. These efforts will also integrate commercial and government fact-of-life version upgrades to provide current technologies and achieve necessary application services. The next series of upgrades will meet the operational need to integrate new and/or improved sensor capabilities and enhance interoperability by migrating to service oriented architectures and improving data sharing ability compliance with DoD direction.

DCGS Data Compression provides the warfighter a capability to efficiently compress and decompress airborne ISR sensor data and transmit real/near-real time to tactical users through current and future band-width limited commercial SATCOM or military SATCOM. The effort will develop, test and implement new sensor data compression/decompression algorithms for current and emerging airborne ISR sensors. Correspondingly, the program develops compression/decompression capabilities for manned and unmanned airborne platforms, associated ground stations, and DCGS. Outputs will meet standard certification for use within the DoD Imagery Intelligence (IMINT)/Measurement and Signatures (MASINT) architecture.

Activities include studies and analysis to support both current program planning and execution and future program planning.

PE 0305208F: Distributed Common Ground/Surface Systems

Air Force

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^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

3600: Research, Development, Test & Evaluation, Air Force

PE 0305208F: Distributed Common Ground/Surface Systems

BA 7: Operational Systems Development

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 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	82.348	63.514	36.222	-	36.222
Current President's Budget	82.348	63.514	7.498	-	7.498
Total Adjustments	0.000	0.000	-28.724	-	-28.724
 Congressional General Reductions 	-	0.000			
 Congressional Directed Reductions 	-	0.000			
 Congressional Rescissions 	0.000	0.000			
Congressional Adds	-	0.000			
 Congressional Directed Transfers 	-	0.000			
Reprogrammings	0.000	0.000			
SBIR/STTR Transfer	0.000	0.000			
Other Adjustments	0.000	0.000	-28.724	-	-28.724

Change Summary Explanation

FY14 total decrease of \$28.724: \$7.059M for termination of Dynamic Time Critical Warfighter Capability; \$21.665M for higher Department of Defense priorities.

PE 0305208F: Distributed Common Ground/Surface Systems Air Force

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Exhibit R-2A, RDT&E Project	Justification	: PB 2014 <i>A</i>	ir Force							DATE: Apr	il 2013	
APPROPRIATION/BUDGET A 3600: Research, Development, BA 7: Operational Systems Dev				PROJECT 674826: Common Imagery Ground / Surface Systems								
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
674826: Common Imagery Ground / Surface Systems	-	57.215	26.854	7.471	-	7.471	20.001	20.097	21.918	22.312	Continuing	Continuing
Quantity of RDT&F Articles		0	0	0		0	0	0	0	0		

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Note

In FY 2013 Project Number 674826, Common Imagery Ground / Surface Systems, three efforts were transferred to PE 0305240F, Support to Distributed Common Ground System (DCGS) Enterprise, 674826, Common Imagery Ground / Surface Systems, in order to improve visibility into this effort. AF is lead service under the auspices of USD(I). The three efforts transferred are: Distributed Common Ground System (DCGS) Integrated Backbone (DIB); DCGS-Imagery (DCGS-I), and DCGS Enterprise. The amount transferred to PE 0305240F was \$24.5M.

A. Mission Description and Budget Item Justification

AF Distributed Common Ground Systems (DCGS) is a network-centric weapon system capable of tasking Intelligence, Surveillance and Reconnaissance (ISR) sensors and receiving, processing, exploiting, and disseminating (PED) data, information and intelligence from airborne, national, and commercial platforms and sensors. The weapon system consists of numerous active duty, Air National Guard, and mission partner sites interconnected by a robust communications infrastructure that allows collaborative reach-back operations. Operators correlate collected Geospatial Intelligence (GEOINT), Signals Intelligence (SIGINT), and Measurement and Signature Intelligence (MASINT) data to provide decision-quality information to the Joint Task Force (JTF) and below, including significant support to time-critical targeting. AF DCGS is the primary PED capability for the U-2, Global Hawk, Predator, Reaper and Project Liberty.

AF DCGS is modernizing through sustainment by integrating the necessary technologies and tools to provide increased capabilities and meet emerging and urgent operational needs. These efforts will also integrate commercial and government fact-of-life version upgrades to provide current technologies and achieve necessary application services. The next series of upgrades will meet the operational need to integrate new and/or improved sensor capabilities and enhance interoperability by migrating to service oriented architectures and improving data sharing ability compliance with DoD direction.

Program actions are categorized by four distinct efforts. The GEOINT effort provides the capability for planning, collecting, processing, analysis and dissemination (PCPAD) of imagery intelligence. The Systems Release effort provides the capability for PCPAD of SIGINT. The Data Links effort provides Line-of-Site (LOS) and Satellite Communications (SATCOM) capabilities that allow AF DCGS to send and receive information between airborne Intelligence, Surveillance, and Reconnaissance (ISR) assets and the AF DCGS weapon system. The Network Communications effort involves modernizing AF DCGS infrastructure to improve data ingest, transfer, and storage capabilities while migrating the network toward a cloud architecture.

PE 0305208F: Distributed Common Ground/Surface Systems

Air Force

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^{##} The FY 2014 OCO Request will be submitted at a later date

nibit R-2A, RDT&E Project Justification: PB 2014 Air Force								
R-1 ITEM NOMENCLATURE	PROJECT							
		674826: Common Imagery Ground / Surfa						
mentation of international standards (to include NATO s	standardization agre	ements) to ens	ure joint,					
		systems that ha	ave been					
	FY 2012	FY 2013	FY 2014					
	25.92	7 9.014	1.47					
nd analysis of imagery and geospatial information.								
mproved sensors, increase capacity and imagery and re interoperability through migration to a service oriente	ed							
	2.00	3.670	0.00					
	PE 0305208F: Distributed Common Groun Surface Systems mentation of international standards (to include NATO standards of international standards (to include NATO standards) and the current or subsequent fissend analysis of imagery and geospatial information. Droved sensors, increase capacity and imagery and georability through migration to a service oriented architect proved sensors, increase capacity and imagery and georability through migration to a service oriented architect proved sensors, increase capacity and imagery and georability through migration to a service oriented architect proved sensors, increase capacity and imagery and the interoperability through migration to a service oriented architect proved sensors, increase capacity and imagery and the interoperability through migration to a service oriented architect proved sensors, increase capacity and signals intelligent proved sensors.	R-1 ITEM NOMENCLATURE PE 0305208F: Distributed Common Ground/ Surface Systems mentation of international standards (to include NATO standardization agree ment because this budget activity includes development efforts to upgrade spate production funding in the current or subsequent fiscal year. FY 2012 25.92 and analysis of imagery and geospatial information. proved sensors, increase capacity and imagery and geospatial rability through migration to a service oriented architecture proved sensors, increase capacity and imagery and geospatial rability through migration to a service oriented architecture mproved sensors, increase capacity and imagery and geospatial rability through migration to a service oriented architecture	PE 0305208F: Distributed Common Ground/ Systems mentation of international standards (to include NATO standardization agreements) to ensemble the cause this budget activity includes development efforts to upgrade systems that has pate production funding in the current or subsequent fiscal year. FY 2012					

PE 0305208F: Distributed Common Ground/Surface Systems Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE	:: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0305208F: Distributed Common Ground/ Surface Systems	PROJECT 674826: Commo Systems			
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014	
Continuing efforts to meet operational need to integrate new and improdata availability, and comply with DoD direction to improve interoperab construct.					
Title: Data Links		4.50	0 3.500	0.000	
Description: Upgrade the AF DCGS capability to transmit and receive	information via data link architecture.				
FY 2012 Accomplishments: Continued the upgrade of AF DCGS capability to transmit and receive it.	information via data link architecture.				
FY 2013 Plans: Continuing the upgrade of AF DCGS capability to transmit and receive	information via data link architecture.				
Title: Network Communications		4.73	5.200	4.247	
Description: Upgrade and evolve the AF DCGS communications network	ork across the various architectures.				
FY 2012 Accomplishments: Upgraded and evolved the AF DCGS communications network across	the various architectures.				
FY 2013 Plans: Continuing to upgrade and evolve the AF DCGS communications netw	ork across the various architectures.				
FY 2014 Plans: Will continue to upgrade and evolve the AF DCGS communications need	twork across the various architectures.				
Title: DCGS Integration Backbone		7.17	0.000	0.000	
Description: Upgrade, improve and manage the DCGS Integration Ba	ckbone (DIB).				
FY 2012 Accomplishments: Upgraded, improved and managed the DCGS Integration Backbone (D	IB).				
FY 2013 Plans: Starting in FY13, effort transferred to PE 0305240F, Support to DCGS	Enterprise.				
Title: DCGS-Imagery Testbed		4.11	1 0.000	0.000	
Description: Continues DCGS-I Testbed development and upgrades.					
FY 2012 Accomplishments:					

PE 0305208F: *Distributed Common Ground/Surface Systems* Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE:	April 2013				
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development	PE 0305208F: Distributed Common Ground/ 6	PROJECT nd/ 674826: Common Imagery Ground / Surface Systems					
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014			
Continued DCGS-I Testbed development and upgrades.							
FY 2013 Plans: Starting in FY13, effort transferred to PE 0305240F, Support to DCGS	S Enterprise.						
Title: DCGS Enterprise		2.552	0.000	0.000			
Description: Evolve DCGS architectures and standards and manage	DCGS IPT efforts for USD(I).						
FY 2012 Accomplishments: Evolved DCGS architectures and standards for commonality and interinteroperability and management of DCGS IPT effort for USD(I).	roperability across intelligence disciplines to include NAT)					
FY 2013 Plans: Starting in FY13, effort transferred to PE 0305240F, Support to DCGS	S Enterprise.						
Title: Geospatial Product Library (GPL)		2.970	2.970	0.000			
Description: Develop and integrate a greater variety of Imagery Intell the GPL.	ligence sources and geospatial visualization capabilities i	١					
FY 2012 Accomplishments: Continued to develop and integrate a greater variety of Imagery Intelligence GPL.	gence sources and geospatial visualization capabilities in						
FY 2013 Plans: Continuting to develop and integrate a greater variety of Imagery Intel the GPL.	ligence sources and geospatial visualization capabilities	n					
Title: PMA		3.250	2.500	1.750			
Description: Maintain a program management office, including engine	eering, finance, and acquisition strategy execution						
FY 2012 Accomplishments: Maintained a program management office, including engineering, final	nce, and acquisition strategy execution						
FY 2013 Plans: Maintaining a program management office, including engineering, final	ance, and acquisition strategy execution						
FY 2014 Plans:							

PE 0305208F: *Distributed Common Ground/Surface Systems* Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force	DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE P	ROJECT
3600: Research, Development, Test & Evaluation, Air Force	PE 0305208F: Distributed Common Ground/ 67	74826: Common Imagery Ground / Surface
BA 7: Operational Systems Development	Surface Systems S	ystems

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Will maintain a program management office, including engineering, finance, and acquisition strategy execution			
Accomplishments/Planned Programs Subtotals	57.215	26.854	7.471

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

			FY 2014	FY 2014	FY 2014					Cost To	
<u>Line Item</u>	FY 2012	FY 2013	Base	000	<u>Total</u>	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total Cost
• RDT&E: BA07: PE 0305240F:	0.000	24.500	23.016		23.016	25.350	26.026	26.497	26.974	Continuing	Continuing
Support to DCSG Enterprise											
OPAF: BA07: Line Item #:	215.146	99.466	115.801		115.801	159.988	116.904	121.748	123.939	Continuing	Continuing
040000 0000 45										_	-

846080: DCGS-AF

Remarks

D. Acquisition Strategy

The Air Force has changed the AF DCGS acquisition strategy from a single block upgrade to programs that will deliver the following families of capabilities to the fielded baseline while meeting emerging operational requirements and continuing to develop and integrate new/upgraded sensors: GEOINT, Systems Release Upgrades, Data Links, and NetComms.

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 0305208F: Distributed Common Ground/Surface Systems Air Force

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

Surface Systems

PROJECT

PE 0305208F: Distributed Common Ground/ 674826: Common Imagery Ground / Surface

DATE: April 2013

Systems

				, -, -, -, -, -, -, -, -, -, -, -, -,				- J - C - C - C - C - C - C - C - C - C						
ıt (\$ in Mi	illions)		FY 2	2012	FY:	2013					FY 2014 Total			
Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
C/Various	Various:Various,	-	1.135	Feb 2012	0.509	Feb 2013	0.000		-		0.000	Continuing	Continuing	TBE
C/Various	Various:Various,	-	25.927	Apr 2012	14.114	Apr 2013	1.474	Jan 2014	-		1.474	Continuing	Continuing	TBE
C/Various	Various:Various	-	2.000	Jun 2012	1.428	Jun 2013	0.000		-		0.000	Continuing	Continuing	TBE
C/Various	Various:Various	-	4.500	Mar 2012	3.213	Mar 2013	0.000		-		0.000	Continuing	Continuing	TBD
C/Various	Various:Various,	-	3.600	May 2012	2.570	May 2013	4.247	Dec 2013	-		4.247	Continuing	Continuing	TBD
C/Various	Science Applications Int'l:Mclean, VA	-	2.552	Mar 2012	0.000		0.000		-		0.000	Continuing	Continuing	TBD
C/Various	Various:Various,	-	4.111	Mar 2012	0.000		0.000		-		0.000	Continuing	Continuing	TBD
C/Various	Various:Various,	-	7.170	Apr 2012	0.000		0.000		-		0.000	Continuing	Continuing	TBD
C/Various	AR Gov't Systems Group:Thousand Oaks, CA	-	2.970	Mar 2012	2.970	Mar 2013	0.000		-		0.000	Continuing	Continuing	TBC
	Subtotal	0.000	53.965		24.804		5.721		0.000		5.721			
c)							FY 2	2014	FY 2	2014	FY 2014]		
<i>>)</i>			FY 2	2012	FY 2	2013	Ва	se	00	co	Total			
Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
	Subtotal	0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test and Evaluation (\$ in Millions)			FY?	2012	FY:	2013					FY 2014 Total			
Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
	Subtotal	0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
	Contract Method & Type C/Various	Method & Type Activity & Location C/Various Various:Various, C/Various Various:Various, C/Various Various:Various C/Various Various:Various C/Various Various:Various, C/Various Various:Various, C/Various Science Applications Int'l:Mclean, VA C/Various Various:Various, C/Various Various:Various, C/Various Various:Various, C/Various Various:Various, C/Various Various:Various, C/Various Various:Various, C/Various Performing Activity & Location Subtotal (\$ in Millions) Contract Method & Type Activity & Location Performing Activity & Location Performing Activity & Location	Contract Method & Type Activity & Location Years C/Various Various:Various, - C/Various Various:Various, - C/Various Various:Various - C/Various Various:Various - C/Various Various:Various, - C/Various Various:Various, - C/Various Science Applications Int'l:Mclean, VA C/Various Various:Various, - C/Various Various:Various, -	Contract Method & Type Activity & Location Years Cost C/Various Various:Various, - 1.135 C/Various Various:Various, - 25.927 C/Various Various:Various - 2.000 C/Various Various:Various - 2.000 C/Various Various:Various - 3.600 C/Various Various:Various, - 3.600 C/Various Science Applications Int'l:Mclean, VA - 2.552 C/Various Various:Various, - 4.111 C/Various Various:Various, - 7.170 C/Various Various:Various, - 7.170 C/Various AR Gov't Systems Group:Thousand Oaks, CA Subtotal 0.000 53.965 S) Contract Method & Performing All Prior Years Cost Subtotal 0.000 (\$ in Millions) Contract Method & Type Activity & Location Years Cost Method & Type Activity & Location Years Cost Method & Type Activity & Location Years Cost Contract Method & Type Activity & Location Years Cost Cost Method & Type Activity & Location Years Cost Cost Method & Type Activity & Location Years Cost Cost Method & Type Activity & Location Years Cost Cost Cost Cost Cost Cost Cost Cos	Contract Method Performing At Type Activity & Location All Prior Years Cost Date	Contract Method & Type Activity & Location All Prior Years Cost Date Cost	Contract Method & Type	Contract Method Refroming Activity & Location Years Cost Date Cost Date	Contract Method & Type	Contract Method Performing Activity & Location All Prior Years Cost Date C	Contract Method Performing & Type Activity & Location Performing & All Prior Years Cost Date Cost	Contract Performing All Prior Cost May Cost Date Cost	Contract Performing All Prior Vears Cost Date Cost Date	Contract Performing All Prior Cost Date Cost

PE 0305208F: Distributed Common Ground/Surface Systems Air Force

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DATE: April 2013 Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE **PROJECT**

3600: Research, Development, Test & Evaluation, Air Force

PE 0305208F: Distributed Common Ground/ 674826: Common Imagery Ground / Surface

BA 7: Operational Systems Development

Surface Systems

Systems

Management Servic	Management Services (\$ in Millions)			FY 2	2012	FY 2	2013	FY 2 Ba	2014 se	FY 2		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
PMA	Various	Various:Various,	-	3.250	Sep 2012	2.050	Sep 2013	1.750	Sep 2014	-		1.750	Continuing	Continuing	TBD
		Subtotal	0.000	3.250		2.050		1.750		0.000		1.750			

	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	57.215	26.854	7.471	0.000	7.471			

Remarks

PE 0305208F: Distributed Common Ground/Surface Systems Air Force

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Exhibit R-4. RDT&E Schedule Profile: PB 2014 Air Force DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE PROJECT

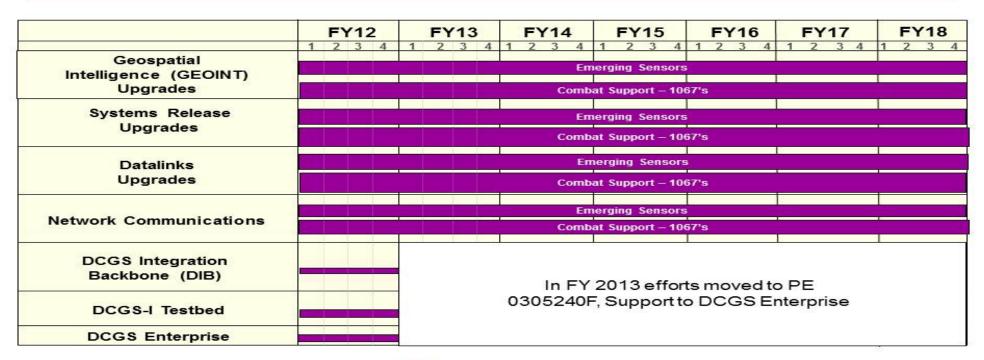
Surface Systems

PE 0305208F: Distributed Common Ground/ 674826: Common Imagery Ground / Surface

Systems



AF DCGS Schedule



Design / development

PE 0305208F: Distributed Common Ground/Surface Systems Air Force

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air ForceDATE: April 2013APPROPRIATION/BUDGET ACTIVITYR-1 ITEM NOMENCLATUREPROJECT3600: Research, Development, Test & Evaluation, Air ForcePE 0305208F: Distributed Common Ground/
Surface Systems674826: Common Imagery Ground / Surface
Systems

Schedule Details

	Start		E	nd
Events	Quarter	Year	Quarter	Year
Geospatial Intelligence (GEOINT) Upgrades	1	2012	4	2018
Systems Release Upgrades	1	2012	4	2018
Datalink Upgrades	1	2012	4	2018
Network Communications upgrades	1	2012	4	2018
DCGS Integration Backbone (DIB)	1	2012	4	2012
DCGS-I Testbed	1	2012	4	2012
DCGS Enterprise	1	2012	4	2012

PE 0305208F: Distributed Common Ground/Surface Systems Air Force

Exhibit N-2A, No rate i roject dustincation. I b 2014 Air roice										DAIL. Api	11 2010	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development R-1 ITEM NOMENCLATU PE 0305208F: Distributed Surface Systems						on Ground/	PROJECT 675265: <i>C</i>	ommon Ima	gery Proce	ssor (CIP)		
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
675265: Common Imagery Processor (CIP)	-	10.709	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		

^{*}FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Fyhihit R-24 RDT&F Project Justification: PR 2014 Air Force

Note

In FY 2013, Project Number 675265, Common Imagery Processor (CIP), efforts transferred to PE 0305240F, Support to Distributed Common Ground System (DCGS) Enterprise, 675265, Common Imagery Processor (CIP) in order to improve visibility into this effort. AF is lead service under the auspices of USD(I).

A. Mission Description and Budget Item Justification

The Common Imagery Processor (CIP) is a major interoperability initiative to develop a common sensor processing element within the DCGS Imagery architecture. The function of the CIP is to accept imagery data, process it into an exploitable image, and output the image to other elements within DCGS. Efforts are underway to augment the CIP baseline to process data from upgraded/new sensors.

Activities also include studies and analysis to support both current program planning and execution and future program planning.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Common Imagery Processor	10.397	0.000	0.000
Description: Continued development of the imagery processor to keep pace with growing sensor baseline.			
FY 2012 Accomplishments: Continued development of the imagery processor to keep pace with growing sensor baseline.			
FY 2013 Plans: Starting in FY13 effort transferred to PE 0305240F, Support to DCGS Enterprise.			
Title: PMA	0.312	0.000	0.000
Description: Maintained a program management office, including engineering, finance, and acquisition strategy execution.			
FY 2012 Accomplishments: Maintained a program management office, including engineering, finance, and acquisition strategy execution.			
FY 2013 Plans:			

PE 0305208F: Distributed Common Ground/Surface Systems

Air Force

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R-1 Line #215

DATE: April 2013

^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
3600: Research, Development, Test & Evaluation, Air Force	PE 0305208F: Distributed Common Ground/	675265: Common Imagery Processor (CIP)
BA 7: Operational Systems Development	Surface Systems	
		1

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Starting in FY13 effort transferred to PE 0305240F, Support to DCGS Enterprise.			
Accomplishments/Planned Programs Subtotals	10.709	0.000	0.000

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

			FY 2014	FY 2014	FY 2014					Cost To	
<u>Line Item</u>	FY 2012	FY 2013	Base	000	<u>Total</u>	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total Cost
• OPAF: BA07: Line Item #: 846080: <i>DCGS-AF</i>	215.146	99.466	115.801		115.801	159.988	116.904	121.748	123.939	Continuing	Continuing
• RDT&E: BA07: PE 0305240F: Support to DCGS Enterprise	0.000	24.500	23.016		23.016	25.350	26.026	26.497	26.974	Continuing	Continuing

Remarks

D. Acquisition Strategy

For imagery processing the Air force uses an evolutionary acquisition approach with blocks (increments) and spirals to develop, field, and upgrade the system and structure contracts for the improved capabilities through full and open competition to the maximum extent possible.

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 0305208F: Distributed Common Ground/Surface Systems Air Force

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB	2014 Air F	orce								DATE	: April 20	13	
APPROPRIATION/BU 3600: <i>Research, Dev</i> BA 7: <i>Operational Sy</i>	elopment,	Test & Evaluation,	Air Force			PE 030	_			Ground/	PROJE 675265	CT : Commoi	n Imagery	/ Process	or (CIP)
Product Developme	nt (\$ in M	illions)		FY 2	2012	FY 2	013	FY 2 Ba			2014 CO	FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
CIP Software Developmen	t C/CPFF	Northrop Grumman:Baltimore, MD	-	10.160	Apr 2012	0.000		0.000		-		0.000	Continuing	Continuing	ТВЕ
		Subtotal	0.000	10.160		0.000		0.000		0.000		0.000			
Support (\$ in Million	ıs)			FY 2	2012	FY 2	013	FY 2 Ba	-		2014 CO	FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
		Subtotal	0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Test and Evaluation	(\$ in Milli	ions)		FY 2	2012	FY 2	013	FY 2 Ba			2014 CO	FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
		Subtotal	0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.000
Management Servic	es (\$ in M	lillions)		FY 2	2012	FY 2	013	FY 2 Ba	-		2014 CO	FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
ISR&SOF Directorate	C/Various	ASC/WI:Wright- Patterson AFB, OH	-	0.154	Mar 2012	0.000		0.000		-		0.000	Continuing	Continuing	TBD
PMA	Various	Various:Various,	-	0.395	Nov 2011	0.000		0.000		-		0.000	Continuing	Continuing	TBD
		Subtotal	0.000	0.549		0.000		0.000		0.000		0.000			
								EV.	2014	EV	2014	FY 2014	Coat To	Total	Target Value of
			All Prior Years	FY 2	2012	FY 2	013	FY 2 Ba			2014	Total	Cost To Complete	Cost	Contract

PE 0305208F: *Distributed Common Ground/Surface Systems* Air Force

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Exhibit R-3, RDT&E Project Cost Analysis: F	PB 2014 Air Fo	orce				D	ATE: April 20	13	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluati BA 7: Operational Systems Development	R-1 ITEM NOME PE 0305208F: L Surface System	PROJECT nd/ 675265: Common Imagery F			Processor (CIP)				
	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2	· · · - ·		Total Cost	Target Value of Contract
<u>Remarks</u>									

PE 0305208F: Distributed Common Ground/Surface Systems Air Force

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

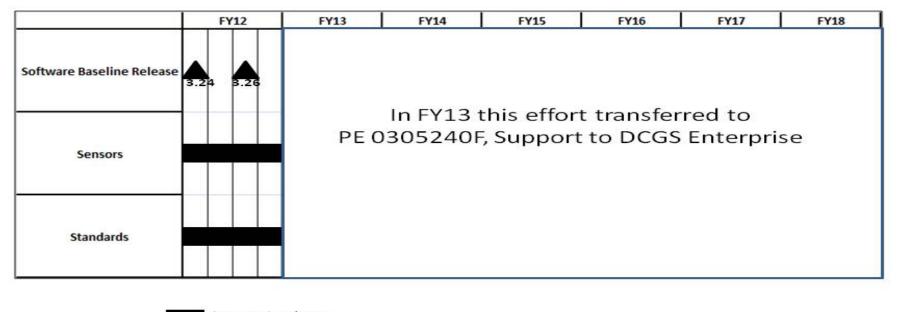
BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE PROJECT

PE 0305208F: Distributed Common Ground/ 675265: Common Imagery Processor (CIP)

Surface Systems

Imagery Processing Schedule



Integration / test Key events

PE 0305208F: Distributed Common Ground/Surface Systems Air Force

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force

APPROPRIATION/BUDGET ACTIVITY

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

BA 7: Operational Systems Development

DATE: April 2013

R-1 ITEM NOMENCLATURE
PE 0305208F: Distributed Common Ground/
Surface Systems

PROJECT
675265: Common Imagery Processor (CIP)

Schedule Details

	St	art	End		
Events	Quarter	Year	Quarter	Year	
Software Baseline Release (3.24)	1	2012	1	2012	
Software Baseline Release (3.26)	3	2012	3	2012	
Sensors - Evolutionary Development	1	2012	4	2012	
Standards - Evolutionary Development	1	2012	4	2012	

PE 0305208F: Distributed Common Ground/Surface Systems Air Force

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Exhibit R-2A, RDT&E Project	Justification	: PB 2014 <i>F</i>	Air Force							DATE: Apr	il 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0305208F: Distributed Common Ground/ Surface Systems PROJEC 676025: L						ession	
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
676025: Data Compression	-	14.424	29.699	0.027	-	0.027	7.605	4.891	1.492	1.519	Continuing (Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		

^{*}FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

Accomplishments/Planned Programs (\$ in Millions)

This initiative will provide the warfighter a capability to efficiently compress and decompress airborne ISR sensor data and transmit real/near-real time to tactical users through current and future band-width limited commercial SATCOM or military SATCOM. The effort will develop, test and implement new sensor data compression/decompression algorithms for current and emerging airborne ISR sensors. Correspondingly, the program develops compression/decompression capabilities for manned and unmanned airborne platforms, associated ground stations, and DCGS. Outputs will meet standard certification for use within the DoD Imagery Intelligence (IMINT)/Measurement and Signatures (MASINT) architecture.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Data Compression	13.855	26.190	0.000
Description: The program began developing and testing compression/ decompression algorithms for airborne ISR sensor data, then will eventually build, integrate and test sensor specific hardware(with the algorithms embedded) for onboard data compression. The effort focused initially on compression/decompression of complex/detected Synthetic Aperture Radar (SAR) data followed by applications of compression technologies to other DoD IMINT/MASINT sensor data (i.e., Spectral, Electro-Optical/Infrared (EO/IR), Light Detection and Ranging (LIDAR), Laser Radar (LADAR), Video) and ground architecture. Outputs will meet DoD standard certification.			
FY 2012 Accomplishments: Developed compression/decompression capabilities for complex/ detected SAR spectral, LiDAR, & Wide Area Motion Imagery (WAMI) sensor data. Developed DoD standard certification plan. Prepared technology demonstration effort(s) for future integration of new data compression capabilities.			
FY 2013 Plans: Continue development and testing of complex/ detected SAR, spectral, LIDAR,& WAMI sensor data compression capabilities. Continue to prepare technology demonstration effort(s).			
Title: PMA	0.569	3.509	0.027

PE 0305208F: Distributed Common Ground/Surface Systems Air Force

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^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force	DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
3600: Research, Development, Test & Evaluation, Air Force	PE 0305208F: Distributed Common Ground/	676025: Da	ata Compression
BA 7: Operational Systems Development	Surface Systems		

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Description: Maintain a Program Management Office, including program supervision, engineering support, finance, and acquisition strategy execution.			
FY 2012 Accomplishments: Maintained a Program Management Office, including program supervision, engineering support, finance, and acquisition strategy execution.			
FY 2013 Plans: Maintaining a Program Management Office, including program supervision, engineering support, finance, and acquisition strategy execution			
FY 2014 Plans: Will continue to maintain a Program Management Office, including program supervision, engineering support, finance, and acquisition strategy execution			
Accomplishments/Planned Programs Subtotals	14.424	29.699	0.027

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

N/A

Remarks

D. Acquisition Strategy

The Data Compression acquisition approach will be to design and develop compression/decompression technology hardware and software components, interfaces and standards for various airborne ISR platforms and ground stations utilizing existing contracts and with full and open competition where appropriate.

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 0305208F: Distributed Common Ground/Surface Systems Air Force

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0305208F: Distributed Common Ground/ 676025: Data Compression

Surface Systems

PROJECT

DATE: April 2013

Product Development (\$ in Millions)			FY	2012	FY 2013		FY 2014 Base		FY 2014 OCO						
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Technology Development-SAR Phase 1 (SAIC)	C/CPFF	SAIC:McLean, VA	-	2.238	Aug 2012	0.000		0.000		-		0.000	Continuing	Continuing	
Technology Development- SAR Phase 1 (KEYW)	C/CPFF	KEYW:Hanover, MD	-	1.272	Aug 2012	0.000		0.000		-		0.000	Continuing	Continuing	
Technology Development- SAR Phase 2 (TBD)	C/CPFF	TBD:TBD,	-	0.000		4.393	Oct 2013	0.000		-		0.000	Continuing	Continuing	
Technology Development- HSI Phase 1 (ATA)	C/CPFF	ATA:Albuquerque, NM	-	2.393	Nov 2012	0.000		0.000		-		0.000	Continuing	Continuing	
Technology Development- HSI Phase 1 (NASA/JPL)	C/CPFF	NASA/ JPL:Pasadena, CA	-	0.000		1.727	Jan 2013	0.000		-		0.000	Continuing	Continuing	
Technology Development- HSI Phase 2 (TBD)	C/CPFF	TBD:TBD,	-	0.000		4.773	Jan 2014	0.000		-		0.000	Continuing	Continuing	
Technology Development- LIDAR Phase 1 (SAIC)	C/CPFF	SAIC:McLean, VA	-	1.500	Dec 2012	0.000		0.000		-		0.000	Continuing	Continuing	
Technology Development- LIDAR Phase 2 (SAIC)	C/CPFF	SAIC:McLean, VA	-	0.000		4.773	Feb 2014	0.000		-		0.000	Continuing	Continuing	
Technology Development- WAMI (ISS/UDRI)	C/TBD	ISS/UDRI:Dayton, OH	-	1.700	Nov 2012	0.600	Mar 2013	0.000		-		0.000	Continuing	Continuing	
Technology Development- WAMI (BAE)	C/TBD	BAE:Baltimore, MD	-	0.700	Sep 2012	0.000		0.000		-		0.000	Continuing	Continuing	
Technology Demonstration- Study (Global Hawk)	SS/TBD	Northrop Grumman:Rancho Bernardo, CA	-	0.000		0.300	Jan 2013	0.000		-		0.000	Continuing	Continuing	
Technology Demonstration- Study (Reaper)	SS/TBD	General Atomics:San Diego, CA	-	0.000		0.670	Jun 2013	0.000		-		0.000	Continuing	Continuing	
Technology Demonstration- Study (ACES HY)	SS/CPAF	Raytheon:los Angeles, CA	-	0.000		0.500	Jul 2013	0.000		-		0.000	Continuing	Continuing	
Technology Demonstration (Global Hawk)	SS/TBD	Northrop Grumman:Rancho Bernardo, CA	-	0.000		6.996	Aug 2014	0.000		-		0.000	Continuing	Continuing	
Other	TBD	TBD:TBD,	-	3.472	Jun 2013	0.000		0.000		-		0.000	Continuing	Continuing	

PE 0305208F: Distributed Common Ground/Surface Systems Air Force

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DATE: April 2013 Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE PROJECT** 3600: Research, Development, Test & Evaluation, Air Force PE 0305208F: Distributed Common Ground/ 676025: Data Compression BA 7: Operational Systems Development Surface Systems FY 2014 FY 2014 FY 2014 **Product Development (\$ in Millions)** FY 2012 FY 2013 Base oco Total Contract Target Method Performing All Prior Award Award Award Award **Cost To** Total Value of **Cost Category Item** & Type **Activity & Location** Years Cost Date Date Cost Date Cost Date Complete Cost Contract Cost Cost 0.000 0.000 13.275 24.732 0.000 0.000 Subtotal FY 2014 FY 2014 FY 2014 Support (\$ in Millions) FY 2012 FY 2013 Base oco Total Contract Target Method Performing All Prior Award Award Award Award **Cost To** Total Value of Cost Cost Cost Contract **Cost Category Item** & Type **Activity & Location** Years Date Cost Date **Date Date** Cost Complete Cost 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 Subtotal 0.000 FY 2014 FY 2014 FY 2014 Test and Evaluation (\$ in Millions) FY 2012 FY 2013 oco Base Total Contract Target Method Cost To Performing All Prior Award Award Award Award Total Value of Complete **Cost Category Item** & Type Activity & Location Years Cost Date Cost Date Cost **Date** Cost **Date** Cost Cost Contract Technology Development-C/Various 1.408 May 2013 Various: Various. 0.300 Sep 2012 0.000 0.000 Continuing Continuing AFRL Support Technology Development-C/Various Various: Various, 0.280 Dec 2012 0.050 Mar 2013 0.000 0.000 Continuing Continuing Other Support Subtotal 0.000 0.580 1.458 0.000 0.000 0.000 FY 2014 FY 2014 FY 2014 Management Services (\$ in Millions) FY 2012 FY 2013 Base oco Total Contract Target Award Method Performing All Prior Award Award Award **Cost To** Total Value of **Cost Category Item** & Type **Activity & Location** Years Cost Date Cost Cost Date Complete Cost Contract Cost Date Date Cost Govt/ Oct 2012 Program Office Support Various 0.569 Oct 2011 3.509 0.027 Oct 2013 0.027 Continuing Continuing Contractors:TBD. Subtotal 0.000 0.569 3.509 0.027 0.000 0.027 Target All Prior FY 2014 Value of FY 2014 FY 2014 **Cost To** Total Years FY 2012 FY 2013 Base oco Total Complete Cost Contract 0.000 14.424 29.699 0.027 0.000 0.027 **Project Cost Totals**

PE 0305208F: Distributed Common Ground/Surface Systems
Air Force

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2	2014 Air Fo	rce					DATE	: April 201	3	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0305208F: Distributed Common Ground/ Surface Systems PROJECT 676025: Data					mpression	1			
	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2		FY 2014 Total	Cost To	Total Cost	Target Value of Contract
Remarks										

PE 0305208F: Distributed Common Ground/Surface Systems

Air Force

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

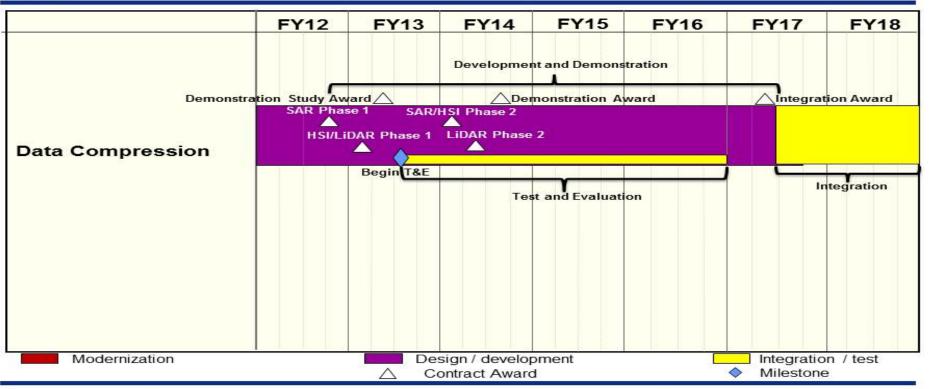
R-1 ITEM NOMENCLATURE PROJECT

PE 0305208F: Distributed Common Ground/ 676025: Data Compression 3600: Research, Development, Test & Evaluation, Air Force

BA 7: Operational Systems Development Surface Systems



Data Compression Schedule



FY14 PBR RDOCs

PE 0305208F: Distributed Common Ground/Surface Systems Air Force

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

3600: Research, Development, Test & Evaluation, Air Force PE 0305208F: Distributed Common Ground/ 676025: Data Compression

BA 7: Operational Systems Development Surface Systems

Schedule Details

	St	End		
Events	Quarter	Year	Quarter	Year
Data Compression	1	2012	4	2018
Development and Demonstration	4	2012	2	2017
SAR Phase 1 Development Contract Award	4	2012	4	2012
Spectral (HSI/LiDAR) Phase 1 Development Contract Award	1	2013	1	2013
SAR/HSI Phase 2 Development Contract Award	1	2014	1	2014
LIDAR Phase 2 Development Contract Award	2	2014	2	2014
Test/Evaluation	3	2013	4	2016
Begin Test and Evaluation	3	2013	3	2013
Demonstration Study Award	2	2013	2	2013
Demonstration Award	3	2014	3	2014
Integration Award	2	2017	2	2018
Integration	2	2017	4	2018

PE 0305208F: Distributed Common Ground/Surface Systems Air Force

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APPROPRIATION/BUDGET ACT	APPROPRIATION/BUDGET ACTIVITY							R-1 ITEM NOMENCLATURE PR					
3600: Research, Development, Test & Evaluation, Air Force					PE 0305208F: Distributed Common Ground/ 676028: D					Dynamic Time Critical Warfighting			
BA 7: Operational Systems Devel	lopment				Surface Sy	⁄stems			Capability				
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
676028: Dynamic Time Critical Warfighting Capability	-	0.000	6.961	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing	
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0			

^{*}FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Exhibit R-2A RDT&E Project Justification: PB 2014 Air Force

Note

In FY 2014, Project 676028, Dynamic Time Critical Warfighting Capability, is being terminated because the technology development has not met objective requirements and thus has not been fielded in an operational capacity.

A. Mission Description and Budget Item Justification

Dynamic Time Critical Warfighting Capability (DTCWC) fuses Electronics Intelligence (ELINT) and Imagery in an upstream data fusion methodology that greatly improves target of interest identification and geolocation timeliness and accuracy. While not part of the AF DCGS weapon system, this Military Intelligence Program funded capability will initially fuse ISR feeds outside of AF DCGS while leveraging AF DCGS for access to multiple raw ISR data feeds. The primary aim of this capability is to support the targeting process, with likely outputs to the AOC.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Dynamic Time Critical Warfighting Capability (DTCWC)	0.000	6.848	0.000
Description: Fuse ELINT and Imagery in an up-stream data fusion methodology that greatly improves target of interest identification and geolocation timeliness and accuracy.			
FY 2013 Plans: Continuing efforts to add additional sensors and sensor modalities to DTCWC fusion engine. Will refine current algorithms to allow for target detection in added environments and terrain types. Will add new target sets to the existing DTCWC targets list.			
FY 2014 Plans: In FY 2014 Dynamic Time Critical Warfighting Capability was terminated.			
Title: PMA	0.000	0.113	0.000
Description: Maintain a Program Management Office, including program supervision, finance and acquisition strategy execution.			
FY 2013 Plans:			

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Air Force

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R-1 Line #215

DATE: April 2013

^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
3600: Research, Development, Test & Evaluation, Air Force	PE 0305208F: Distributed Common Ground/	676028: Dynamic Time Critical Warfighting
BA 7: Operational Systems Development	Surface Systems	Capability

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Maintaining a Program Management Office, including program supervision, finance and acquisition strategy execution.			
Accomplishments/Planned Programs Subtotals	0.000	6.961	0.000

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

N/A

Remarks

D. Acquisition Strategy

DTCWC uses the acquisition strategy of providing spiral releases of software and capabilities. A sole-source contract has been awarded to Johns Hopkins University Applied Physics Lab due to their evolutionary approach to upstream data fusion.

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 0305208F: Distributed Common Ground/Surface Systems Air Force

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB	2014 Air F	orce								DATE	: April 201	13	
APPROPRIATION/B 3600: Research, Dev BA 7: Operational Sy	elopment,	Test & Evaluation,	Air Force			PE 030	_			Ground/	PROJE 676028 Capabil	: Dynamic	: Time Cri	tical War	fighting
Product Development (\$ in Millions)				FY 2	2012	FY 2013		FY 2014 Base		FY 2		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contrac
Develop DTCWC	SS/FFP	Johns Hopkins University, Applied Physics Lab:Columbia, MD	-	0.000		6.961	Jul 2013	0.000		-		0.000	0.000	6.961	6.96
		Subtotal	0.000	0.000		6.961		0.000		0.000		0.000	0.000	6.961	6.96
Support (\$ in Millions)				FY 2	2012	FY 2	2013			FY 2014 FY 2014 OCO Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contrac
		Subtotal	0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.00
Test and Evaluation	(\$ in Milli	ions)		FY 2	2012	FY 2	2013	FY 2 Ba		FY 2		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contrac
		Subtotal	0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.00
Management Service	es (\$ in M	lillions)		FY 2	2012	FY 2	2013	FY 2 Ba	-	FY 2	2014 CO	FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contrac
		Subtotal	0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	0.00
			All Prior Years	FY 2	2012	FY 2	2013	FY 2 Ba	-	FY 2	2014 CO	FY 2014 Total	Cost To	Total Cost	Target Value of Contrac
	Project Cost Totals 0.000														6.96

PE 0305208F: *Distributed Common Ground/Surface Systems* Air Force

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R-1 ITEM NOMENCLATURE

Exhibit R-4. RDT&E Schedule Profile: PB 2014 Air Force DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

PE 0305208F: Distributed Common Ground/ 676028: Dynamic Time Critical Warfighting 3600: Research, Development, Test & Evaluation, Air Force

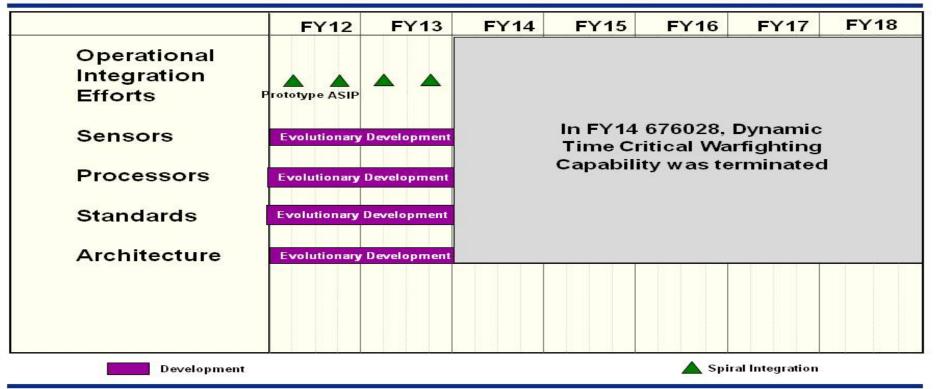
BA 7: Operational Systems Development Surface Systems

PROJECT

Capability



DTCWC Program Schedule



PE 0305208F: Distributed Common Ground/Surface Systems Air Force

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air ForceDATE: April 2013APPROPRIATION/BUDGET ACTIVITYR-1 ITEM NOMENCLATURE
PE 0305208F: Distributed Common Ground/
Surface SystemsPROJECT
676028: Dynamic Time Critical Warfighting
Capability

Schedule Details

	St	art	End		
Events	Quarter	Year	Quarter	Year	
Operational Integration Efforts	1	2012	3	2013	
Sensors - Evolutionary Development	1	2012	4	2013	
Processors - Evolutionary Development	1	2012	4	2013	
Standards - Evolutionary Development	1	2012	4	2013	
Architecture - Evolutionary Development	1	2012	4	2013	

PE 0305208F: Distributed Common Ground/Surface Systems Air Force

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