

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2008

BUDGET ACTIVITY		PE NUMBER AND TITLE							
7 - Operational system development		0305208A - Distributed Common Ground/Surface Systems							
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	135298	90088	57704	17639	10255	15690	15690	Continuing	Continuing
956 Distributed Common Ground System (DCGS) (MIP)	24213	19788	11344	2033	2202	191	191	Continuing	Continuing
D06 DCGS-A FUSION INTEGRATION (MIP)	24468	24411	6626	4483	1107	7500	7500	Continuing	Continuing
D07 DCGS-A COMMON MODULES (MIP)	75783	34446	28159	6384	4304	6999	6999	Continuing	Continuing
D08 DCGS-A SENSOR INTEGRATION (MIP)	10167	10780	10907	4074	2003	1000	1000	Continuing	Continuing
D15 MUSE & TES TADSS (MIP)	667	663	668	665	639				4577

A. Mission Description and Budget Item Justification: Distributed Common Ground System - Army (DCGS-A) will serve as the primary ground system of systems for airborne and ground sensor platforms. DCGS-A enables the commander to achieve situational understanding by leveraging multiple sources of data, information and intelligence to synchronize the elements of Joint and Combined Arms combat power to See First, Understand First, Act First and Finish Decisively. The core functions of DCGS-A are: receipt and processing of space, airborne, ground and maritime Intelligence, Surveillance and Reconnaissance (ISR) sensor data; control of select Army and joint ISR sensor systems; intelligence synchronization; ISR planning, reconnaissance and surveillance (R&S) integration; fusion of sensor information, and direction and distribution/dissemination of sensor information. DCGS-A draws information from a wide variety of automated and manual sources; on-board sensors, space platforms and unattended air and ground vehicles to enable the land component commander to achieve situational understanding, execute battle command, synchronize fires and effects and rapidly shift battle focus to protect the force and employ his forces more effectively. DCGS-A allows commanders at all levels to visualize and understand the threat and environment, predict threat intentions, execute targeting through targeting support, conduct ISR integration and support Information Operations.

Project 956 provides the DCGS-A enterprise system level design, net-centric architecture and infrastructure, to include integration of the U.S. Air Force developed DCGS Integrated Backbone (DIB). Project D06 provides single and Multi-Intelligence automated fusion capabilities. Project D07 funds Technology Insertion of DCGS-A capabilities into Current Force systems, and System Development and Demonstration (SDD), to include a common set of ISR analysis tools. D08 provides sensor integration to include sensor control, tasking and interoperability. Project D15 funds Training Aids, Devices, Simulators and Simulations (TADSS) for the Tactical Exploitation System (TES).

DCGS-A includes hardware for Fixed and Mobile configurations and common software that is scaleable and tailored by echelon and is interoperable with sensors, other Battlefield Operating Systems (BOS), and the DoD Distributed Common Ground/Surface System (DCG/SS) Family of Systems (FoS). Within the Brigade Combat Teams (BCTs), DCGS-A provides the Mobile ISR capability as well as an embedded software application on the Future Combat System (FCS) FoS and other select platforms. At the Corps, Division and Echelons Above Corps (EAC), DCGS-A is composed of hardware and software in Mobile and Fixed site configurations. As a system of systems, DCGS-A will consolidate and replace the capabilities found in the following Current Force systems: Joint Intelligence Operations Capability-Iraq (JIOC-I), All Source Analysis System (ASAS), Counter Intelligence/Human Intelligence (CI/HUMINT) Single Source Workstation, Tactical Exploitation System (TES), Guardrail Common Sensor (GRCS) Intelligence Processing Facility (IPF), Prophet Control, Common Ground Station (CGS), Digital Topographic Support System (DTSS) and Integrated Meteorological System (IMETS), sensor control and processing of select Unmanned Aerial Vehicles (UAVs) and Enhanced Trackwolf processing capabilities. DCGS-A is a key component of

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BUDGET ACTIVITY

PE NUMBER AND TITLE

7 - Operational system development

0305208A - Distributed Common Ground/Surface Systems

Transformation and a top Army priority.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2008

BUDGET ACTIVITY	PE NUMBER AND TITLE		
7 - Operational system development	0305208A - Distributed Common Ground/Surface Systems		
<u>B. Program Change Summary</u>	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2008/2009)	134313	81580	73974
Current BES/President's Budget (FY 2009)	135298	90088	57704
Total Adjustments	985	8508	-16270
Congressional Program Reductions		-592	
Congressional Rescissions			
Congressional Increases		9100	
Reprogrammings	985		
SBIR/STTR Transfer			
Adjustments to Budget Years			-16270

Change Summary Explanation: Funding: FY09 - Funds realigned (\$16,270) to DCGS-A Procurement to accelerate production/fielding of Brigade Combat Team (BCT) units.

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February 2008

BUDGET ACTIVITY 7 - Operational system development		PE NUMBER AND TITLE 0305208A - Distributed Common Ground/Surface Systems						PROJECT 956	
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
956 Distributed Common Ground System (DCGS) (MIP)	24213	19788	11344	2033	2202	191	191	Continuing	Continuing

A. Mission Description and Budget Item Justification: Distributed Common Ground System - Army (DCGS-A) will serve as the primary ground system of systems for Army airborne and ground sensor platforms defined as Future Force systems. DCGS-A enables the commander to achieve situational understanding by leveraging multiple sources of data, information, and intelligence to synchronize the elements of Joint and Combined Arms combat power (maneuver, maneuver support and maneuver sustainment support). The core functions of DCGS-A are: receipt and processing of space, airborne, ground and maritime Intelligence, Surveillance and Reconnaissance (ISR) sensor data; control of select Army and joint ISR sensor systems; intelligence synchronization; ISR planning, reconnaissance and surveillance (R&S) integration; fusion of sensor information, and direction and distribution/dissemination of sensor information. It draws information from a wide variety of automated and manual sources; on-board sensors, space platforms, unattended air and ground vehicles, existing and new ISR capabilities, and an assortment of databases to enable the land component commander to execute battle command, synchronize fires and effects, rapidly shift battle focus, achieve situational understanding, protect the force, and employ forces more effectively. DCGS-A allows commanders at all levels to visualize, analyze and understand the threat and environment, predict threat intentions, execute targeting through targeting support, conduct ISR integration and support Information Operations.

This project establishes the DCGS-A Federated Network Centric Enterprise, facilitating system integration and network-enabled capability of existing and future intelligence, surveillance and reconnaissance (ISR) ground stations, eventually consolidating these capabilities into a single system of systems. An enterprise level approach based on a Service Oriented Architecture (SOA) will provide Commanders' and Staffs' access to various ISR ground station information from any ground station, and data exchange between Army ISR ground stations for improved intelligence sharing and understanding. DCGS-A will achieve joint, allied and coalition interoperability through implementation of the 10.2 DCGS Integration Backbone (DIB) to access other Services data and information that is critical to the Land Component Commander.

FY09 funds design, development and test of the DCGS-A enterprise level architecture supporting Fixed, Mobile and Embedded configurations.

NOTE: FY 2008 funding total does not include \$12,300 previously requested for current FY 2008 GWOT requirements.

<u>Accomplishments/Planned Program:</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Ongoing interoperability testing and evaluation to include Central Test Support Facility (CTSF) testing, Future Combat System (FCS) experimentation and integration and Joint testing and evaluation.	3497	3050	3410
Continue design and development of DCGS-A enterprise level net-centric architecture in support of Current and Future Force systems.	7036	6622	6572
Continue to evaluate, integrate and test new software applications and components for incorporation into the DCGS-A baseline.	1180	1016	1362
Continue Asymmetric Threat Response and Analysis Project (ATRAP).	2500	2400	
Continue Effects Based Approach to Operations.	1000	800	

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BUDGET ACTIVITY 7 - Operational system development	PE NUMBER AND TITLE 0305208A - Distributed Common Ground/Surface Systems	PROJECT 956
Begin DCGS-A ASAS Integration.		2400
Begin Advanced Architecture Designs Supporting U.S. Army Net Centric Warfare.		1600
Begin Heuristic Internet Protocol Engine.		1900
Intelligence Data Exchange for Execution and Planning (IDEEP).	4000	
National Defense Imagery Processing Program.	1800	
Joint Visualization System.	2150	
Blast Risk Analysis and Mitigation Application.	1050	
Total	24213	19788

<u>B. Other Program Funding Summary</u>	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
PE 0604321 CI/HUMINT Software Products (B41) (TIARA)	3266	1644	1721	3017	3223	3500	3700	Continuing	Continuing
BK5275 CI HUMINT Info Management System	21553	26406	37880	10686	13221	10848	10500	Continuing	Continuing
BZ7316 DCGS-A (MIP)	145098	146632	179146	201430	167810	160314	164586	Continuing	Continuing

Comment:

C. Acquisition Strategy DCGS-A will be executed via an evolutionary acquisition approach, providing incremental capability through Technology Insertion of Current Force systems and System Development and Demonstration (SDD) of Capability Demonstration Document (CDD) requirements. Each increment will incorporate and validate select DCGS-A capabilities into the overall DCGS-A system baseline, emphasizing migration of current force capabilities through integrated testing and continuous evaluation opportunities.

ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
7 - Operational system development			0305208A - Distributed Common Ground/Surface Systems							956		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
SETA Support to Visualization/Data Sharing, Modeling & Simulation	T&M	Booz-Allen, Eatontown, NJ	11028	1780	2Q	1450	2Q	1475	2Q	Cont.	Cont.	Cont.
DCGS-A Product Selection and Integration	MIPR	CERDEC/SEC, Ft. Monmouth, NJ	12730	2960	1-2Q	1996	1-2Q	1750	1-2Q	Cont.	Cont.	Cont.
SIL Software Integration	MIPR	CERDEC/RDCOM Ft. Monmouth, NJ	4945	1520	1-4Q	1782	1-4Q	1252	1-4Q	Cont.	Cont.	Cont.
Metadata Catalog	T&M	MITRE, Eatontown, NJ	2363	1288	2Q	2460	2Q	2121	2Q	Cont.	Cont.	Cont.
Asymmetric Threat Response and Analysis Project	MIPR	Battle Labs		2500	2Q	2400	2Q				4900	
Effects Based Approach to Operations	MIPR	Battle Labs		1000	2Q	800	2Q				1800	
DCGS-A ASAS Integration	MIPR	Battle Labs				2400	2Q				2400	
Advanced Architecture Designs for NCW	MIPR	Battle Labs				1600	2Q				1600	
Heuristic Internet Protocol Engine	MIPR	Battle Labs				1900	2Q				1900	
Intelligence Data Exchange for Execution and Planning (IDEEP)	MIPR	Battle Labs	3400	4000	2Q						7400	
National Defense Imagery Processing Program	MIPR	Battle Labs	4100	1800	2Q						5900	
Joint Visualization System	MIPR	Battle Labs		2150	2Q						2150	
Blast Risk Analysis and Mitigation Application	MIPR	Battle Labs		1050	2Q						1050	
Subtotal:			38566	20048		16788		6598		Cont.	Cont.	Cont.
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract

ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
7 - Operational system development			0305208A - Distributed Common Ground/Surface Systems							956		
Objective Doctrine/TTP Development	MIPR	Ft. Huachuca, AZ	6723	100	2Q	100	2Q	100	2Q	Cont.	Cont.	Cont.
Matrix Support	MIPR	CECOM, Fort Monmouth NJ	4874	600	1Q	600	1Q	600	1Q	Cont.	Cont.	Cont.
Subtotal:			11597	700		700		700		Cont.	Cont.	Cont.
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Joint Interoperability Test and Evaluation	MIPR	CTSF, Ft. Hood	2538	325	2Q	250	2Q	250	2Q		3363	
Operational Test support for DCGS-A	MIPR	ATEC	336	1997	2Q	1450	2Q	3096	2Q		6879	
Subtotal:			2874	2322		1700		3346			10242	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Project Management	In-House	PM, DCGS-A	5432	1143	1Q	600	1Q	700	1Q	Cont.	Cont.	Cont.
Subtotal:			5432	1143		600		700		Cont.	Cont.	Cont.
Project Total Cost:			58469	24213		19788		11344		Cont.	Cont.	Cont.

Schedule Profile (R4 Exhibit)

February 2008

BUDGET ACTIVITY
7 - Operational system development

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PROJECT
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Event Name	FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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
DCGS-A Participation in FCS Ex 1.1	■																											
Version 3 Intra-Army Interoperability Certification (IAIC)		■																										
Version 3 Operational Assessment (OA)			■																									
Version 3 Fielding to OIF/OEF				■																								
Version 3.1 IAIC							■																					
Version 3.1 LUT								■																				
Version 3.1 Worldwide Fielding (ASAS-L Displacement)										■																		
Version 4 (DCGS-A Software Baseline 1.0) IAIC												■																
Version 4 (DCGS-A Software Baseline 1.0) Operational Evaluation (OE)													■															
Version 4 (DCGS-A Software Baseline 2.0) IAIC														■														
Version 4 (DCGS-A Software Baseline 2.0) LUT															■													
(1) Version 4 (DCGS-A Software Baseline 2.0) Milestone C																										▲ ₁		
(2) Version 4 (DCGS-A Software Baseline 2.0) Initial Operational Capability (IOC)																										▲ ₂		

Schedule Profile (R4 Exhibit)

February 2008

BUDGET ACTIVITY		PE NUMBER AND TITLE												PROJECT														
7 - Operational system development		0305208A - Distributed Common Ground/Surface Systems												956														
Event Name	FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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
DCGS-A Software Baseline (DSB 4.0) Initial Operational Test & Eval (IOT&E)																					<div style="text-align: center;">  DSB 4.0 IOT&E </div>				<div style="text-align: center;">  DCGS-A FRP </div>			
(3) DCGS-A Full Rate Production																												

Schedule Detail (R4a Exhibit)

February 2008

BUDGET ACTIVITY 7 - Operational system development		PE NUMBER AND TITLE 0305208A - Distributed Common Ground/Surface Systems					PROJECT 956	
<u>Schedule Detail</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	
DCGS-A Participation in FCS Ex 1.1	1Q - 2Q							
Version 3 Intra-Army Interoperability Certification (IAIC)	2Q							
Version 3 Operational Assessment (OA)	3Q							
Version 3 Fielding to OIF/OEF		2Q - 3Q						
Version 3.1 IAIC		3Q						
Version 3.1 LUT		4Q						
Version 3.1 Worldwide Fielding (ASAS-L Displacement)			1Q - 4Q	1Q - 4Q	1Q - 2Q			
Version 4 (DCGS-A Software Baseline 1.0) IAIC			2Q					
Version 4 (DCGS-A Software Baseline 1.0) Operational Evaluation (OE)			2Q					
Version 4 (DCGS-A Software Baseline 2.0) IAIC				2Q				
Version 4 (DCGS-A Software Baseline 2.0) LUT				2Q				
Version 4 (DCGS-A Software Baseline 2.0) Milestone C				4Q				
Version 4 (DCGS-A Software Baseline 2.0) Initial Operational Capability (IOC)				4Q				
DCGS-A Software Baseline (DSB 4.0) Initial Operational Test & Eval (IOT&E)						3Q		
DCGS-A Full Rate Production						4Q		

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2008

BUDGET ACTIVITY 7 - Operational system development		PE NUMBER AND TITLE 0305208A - Distributed Common Ground/Surface Systems						PROJECT D06	
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
D06 DCGS-A FUSION INTEGRATION (MIP)	24468	24411	6626	4483	1107	7500	7500	Continuing	Continuing

A. Mission Description and Budget Item Justification: Distributed Common Ground System - Army (DCGS-A) will serve as the primary ground system of systems for airborne and ground sensor platforms defined as Future Force systems. DCGS-A enables the commander to achieve situational understanding by leveraging multiple sources of data, information, and intelligence to synchronize the elements of Joint and Combined Arms combat power (maneuver, maneuver support and maneuver sustainment support). The core functions of DCGS-A are: collection and processing of space, airborne, ground and maritime Intelligence, Surveillance and Reconnaissance (ISR) sensor data; control of select Army and joint ISR sensor systems; intelligence synchronization; ISR planning, reconnaissance and surveillance (R&S) integration; fusion of sensor information, and direction and distribution/dissemination of sensor information. It draws information from a wide variety of automated and manual sources; on-board sensors, space platforms, unattended air and ground vehicles, existing and new ISR capabilities, and an assortment of databases to enable the land component commander to execute battle command, synchronize fires and effects, rapidly shift battle focus, achieve situational understanding, protect the force, and employ his forces more effectively. DCGS-A allows commanders at all levels to visualize and understand the threat and environment, predict threat intentions, execute targeting through targeting support, conduct ISR integration and support Information Operations.

This project establishes DCGS-A sensor fusion and all source production capabilities, leveraging previously completed algorithm, on-going Future Combat System (FCS) and Science and Technology (S&T) developmental efforts to meet the requirements for battle management and situational awareness, intelligence preparation of the battlespace (battle damage assessments, course of action/predictive analysis, wargaming), target development (deliberate, time critical, high value/high payoff), collection/ISR management (requirement and mission), electronic warfare/countermeasures, force protection, indications and warnings, operational security, and battlefield visualization and presentation. The Sensor Fusion capability will address both traditional intelligence disciplines (signals intelligence, imagery intelligence, human intelligence, measurements and signatures intelligence) from organic, Theater, and National assets (systems and databases), and non-traditional sources (open source intelligence, fire support) to achieve a complete and universal understanding of the situation in support of the commander/warfighter, battle command databases, and the Common Operational Picture (COP). The sensor fusion capability will support all types of units across a broad spectrum of both traditional and non-traditional operations, and improve interoperability with Joint, Allied, and Coalition forces.

FY09 funds the development and integration of traditional and non-traditional multi-intelligence sensor fusion products and technologies into the DCGS-A Fixed, Mobile and Embedded configurations to produce a fully automated fusion capability.

<u>Accomplishments/Planned Program:</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Continue normalization and integration of sensor fusion process and Multi-INT sources, geospatial and weather data.	5855	5131	2145
Continue to enhance controlled interface technology for improved product distribution at multiple security levels.	2482	2059	2119
Continued analysis and prototyping for porting sensor fusion mission applications into the FCS environment.	1899	1285	1065
Continue to migrate sensor fusion processes and Current Force systems capabilities into DCGS-A architecture/Service Oriented	14232	15936	1297

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BUDGET ACTIVITY 7 - Operational system development	PE NUMBER AND TITLE 0305208A - Distributed Common Ground/Surface Systems	PROJECT D06
Architecture (SOA) environment.		
Total	24468	24411

<u>B. Other Program Funding Summary</u>	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
PE 654321 ASAS Evolutionary ACQ (B19) (TIARA)	6739	3322	3411						13472
K28801 ASAS Modules	34293	52485	58718	9992	12987	6053			174528

Comment:

C. Acquisition Strategy DCGS-A will be executed via an evolutionary acquisition approach, providing incremental capability through Technology Insertion of Current Force systems and System Development and Demonstration (SDD) of Capability Demonstration Document (CDD) requirements. Each increment will incorporate and validate select DCGS-A capabilities into the overall DCGS-A system baseline, emphasizing migration of current force capabilities through integrated testing and continuous evaluation opportunities.

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February 2008

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
7 - Operational system development			0305208A - Distributed Common Ground/Surface Systems							D06		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Enhancement of interfaces between sensor fusion processes and various INT domains	MIPR	PM IE, Ft. Belvoir, VA	11412	917	1Q	950	2Q	975	2Q	Cont.	Cont.	Cont.
Integrate FCS fusion capabilities into DCGS-A baseline	MIPR	PM FCS BCT, Warren, MI	3656	500	2-3Q	497	2Q	500	2Q	Cont.	Cont.	Cont.
Transition of sensor fusion processes and Current Force systems capabilities to DCGS-A	MIPR	CERDEC/RDCOM	5749	3250	1-4Q	2471	1-2Q	560	1-2Q	Cont.	Cont.	Cont.
Integration of sensor fusion processes into DCGS-A Mobile configuration	Sole Source CPIF/CPAF	Northrop Grumman, Linthicum, MD	1216	15875	2Q	12390	2Q	194		Cont.	Cont.	Cont.
Integration of Overwatch capability	Sole Source CPIF/CPAF	Overwatch, Austin, TX	1100	1026	1-2Q	5050	1-2Q	1410		Cont.	Cont.	Cont.
Subtotal:			23133	21568		21358		3639		Cont.	Cont.	Cont.
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Matrix Support	MIPR	CECOM/RDCOM, Ft. Monmouth, NJ	1120	620	1Q	650	1Q	680	1Q	Cont.	Cont.	Cont.
SETA Support	Competitive T&M	Sytex, Vienna, VA	2930	980	1Q	1020	1Q	1040	1Q	Cont.	Cont.	Cont.
Subtotal:			4050	1600		1670		1720		Cont.	Cont.	Cont.
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract

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BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
7 - Operational system development			0305208A - Distributed Common Ground/Surface Systems							D06		
Test & Evaluation	MIPR	ATEC/EPG	150	950	1Q	901	1Q	790		Cont.	Cont.	Cont.
Subtotal:			150	950		901		790		Cont.	Cont.	Cont.
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Project Management	In House	PM DCGS-A	600	350	1-2Q	482		477		Cont.	Cont.	Cont.
Subtotal:			600	350		482		477		Cont.	Cont.	Cont.
Project Total Cost:			27933	24468		24411		6626		Cont.	Cont.	Cont.

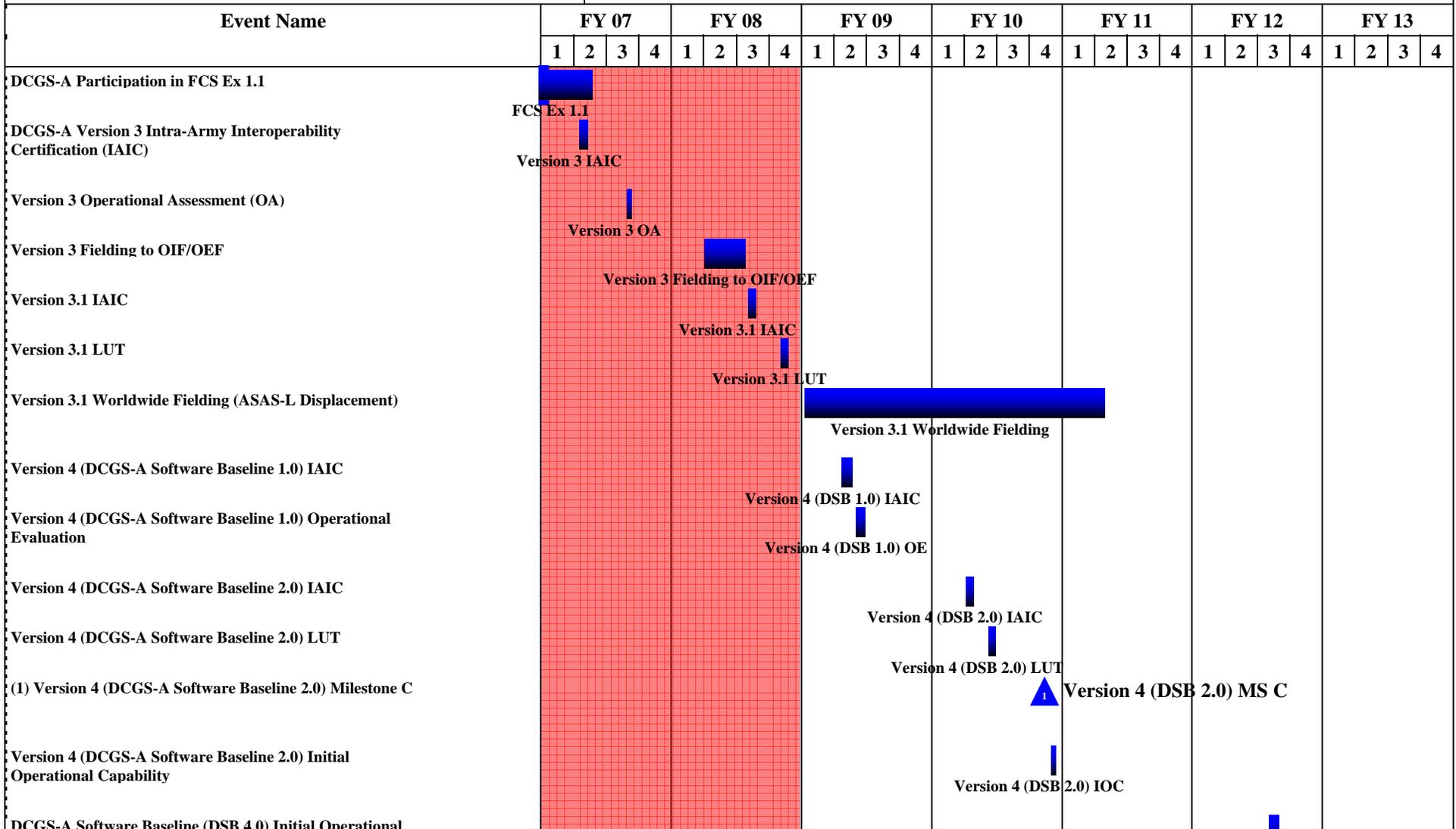
Schedule Profile (R4 Exhibit)

February 2008

BUDGET ACTIVITY
7 - Operational system development

PE NUMBER AND TITLE
0305208A - Distributed Common Ground/Surface Systems

PROJECT
D06



Schedule Profile (R4 Exhibit)

February 2008

BUDGET ACTIVITY		PE NUMBER AND TITLE												PROJECT														
7 - Operational system development		0305208A - Distributed Common Ground/Surface Systems												D06														
Event Name	FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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
(2) DCGS-A Full Rate Production																									▲ DCGS-A FRP			

Schedule Detail (R4a Exhibit)

February 2008

BUDGET ACTIVITY		PE NUMBER AND TITLE					PROJECT	
7 - Operational system development		0305208A - Distributed Common Ground/Surface Systems					D06	
<u>Schedule Detail</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	
DCGS-A Participation in FCS Ex 1.1	1Q - 2Q							
DCGS-A Version 3 Intra-Army Interoperability Certification (IAIC)	2Q							
Version 3 Operational Assessment (OA)	3Q							
Version 3 Fielding to OIF/OEF		2Q - 3Q						
Version 3.1 IAIC		3Q						
Version 3.1 LUT		4Q						
Version 3.1 Worldwide Fielding (ASAS-L Displacement)			1Q - 4Q	1Q - 4Q	1Q - 2Q			
Version 4 (DCGS-A Software Baseline 1.0) IAIC			2Q					
Version 4 (DCGS-A Software Baseline 1.0) Operational Evaluation			2Q					
Version 4 (DCGS-A Software Baseline 2.0) IAIC				2Q				
Version 4 (DCGS-A Software Baseline 2.0) LUT				2Q				
Version 4 (DCGS-A Software Baseline 2.0) Milestone C				4Q				
Version 4 (DCGS-A Software Baseline 2.0) Initial Operational Capability				4Q				
DCGS-A Software Baseline (DSB 4.0) Initial Operational Test & Eval (IOT&E)						3Q		
DCGS-A Full Rate Production						4Q		

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2008

BUDGET ACTIVITY 7 - Operational system development			PE NUMBER AND TITLE 0305208A - Distributed Common Ground/Surface Systems					PROJECT D07	
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
D07 DCGS-A COMMON MODULES (MIP)	75783	34446	28159	6384	4304	6999	6999	Continuing	Continuing

A. Mission Description and Budget Item Justification: Distributed Common Ground System - Army (DCGS-A) will serve as the primary ground system of systems for airborne and ground sensor platforms defined as Objective Force systems. DCGS-A enables the commander to achieve situational understanding by leveraging multiple sources of data, information, and intelligence to synchronize the elements of Joint and Combined Arms combat power (maneuver, maneuver support and maneuver sustainment support). The core functions of DCGS-A are: collection and processing of space, airborne, ground and maritime Intelligence, Surveillance and Reconnaissance (ISR) sensor data; control of select Army and joint ISR sensor systems; intelligence synchronization; ISR planning, reconnaissance and surveillance (R&S) integration; fusion of sensor information, and direction and distribution/dissemination of sensor information. It draws information from a wide variety of automated and manual sources; on-board sensors, space platforms, unattended air and ground vehicles, existing and new ISR capabilities, and an assortment of databases to enable the land component commander to execute battle command, synchronize fires and effects, rapidly shift battle focus, achieve situational understanding, protect the force, and employ his forces more effectively. DCGS-A allows commanders at all levels to visualize and understand the threat and environment, predict threat intentions, execute targeting through targeting support, conduct ISR integration and support Information Operations.

This project provides for the design, development, integration and test of the DCGS-A system of systems at all echelons, from embedded DCGS-A up to Fixed Site operations. The effort includes system engineering, software integration and development, test & evaluation, and use of Modeling and Simulation (M&S) to develop DCGS-A Mobile systems with common multi-function hardware and software combinations (i.e. user workstations) capable of performing all DCGS-A functions. Development will focus on common module hardware and software that is scalable to allow commanders increased flexibility in the intelligence force package deployed such that it can be tailored to the echelon, location, and mission that DCGS-A will be required to support. Included in the development will be the stand-up of a Federated Systems Integration Lab (SIL) to assess and implement existing and new candidate software applications and components into the DCGS-A baseline design. A common set of ISR Analysis Tools to support collaboration, exploitation, fusion and collection management will be developed that operate within the construct of distributed, reach operations within the DCGS-A enterprise in order to maximize data access and minimize forward footprint. This will ultimately result in a DCGS-A design that reduces physical and logistics footprint, eases training burden, and decreases sustainability requirements.

FY09 funds Technology Insertion of DCGS-A capabilities into Current Force systems, common module multi-function hardware, Battle Command interoperability and integration and test of new software applications. The System Integration Lab (SIL) will evaluate candidate software applications for integration of Joint common components and interoperability amongst the Services.

<u>Accomplishments/Planned Program:</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Completed SIL design, planning and integration of 10.2 DCGS Integrated Backbone (DIB) and the Joint Intelligence Operational Capability-Iraq (JIOC-I) Brain.	3683		
Continuation of Embedded DCGS-A design/analysis and Future Combat System (FCS) support.	2950	3060	3140

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2008

BUDGET ACTIVITY 7 - Operational system development	PE NUMBER AND TITLE 0305208A - Distributed Common Ground/Surface Systems	PROJECT D07		
Continue to evaluate, integrate and test existing and new software applications. Integrate Best Value components from DoD wide systems into DCGS-A baseline.	37743	6524	3350	
Continue to develop and enhance two-way Battle Command to include Joint Command and Control (JC2) interoperability.	8677	3135	2475	
Continued Technology Insertion of Current Force capabilities into integrated DCGS-A baseline.	22730	21727	19194	
Total	75783	34446	28159	

<u>B. Other Program Funding Summary</u>	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
BZ7316 DCGS-A Unit of Employment	145098	146632	179146	201430	167810	160314	164586	Continuing	Continuing
KA2550 Digital Topographic SPT SYS (DTSS)	47606	38591	26979	8500					121676

Comment:

C. Acquisition Strategy DCGS-A will be executed via an evolutionary acquisition approach, providing incremental capability through Technology Insertion of Current Force systems and System Development and Demonstration (SDD) of Capability Demonstration Document (CDD) requirements. Each increment will incorporate and validate select DCGS-A capabilities into the overall DCGS-A system baseline, emphasizing migration of current force capabilities through integrated testing and continuous evaluation opportunities.

ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
7 - Operational system development			0305208A - Distributed Common Ground/Surface Systems							D07		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Embedded DCGS-A scalability design/analysis and FCS support	Competitive CPIF/CPAF	Boeing Corp, CA	7550	2805	2Q	2850	2Q	2775	2Q	Cont.	Cont.	Cont.
System integration and test support for Spirals 1, 2 & 3	Sole Source CPIF/CPAF	Northrop Grumman, Linthicum, MD	5573									
Evaluate, integrate and test existing and new software applications and components into DCGS-A SOA	Sole Source CPIF/CPAF	Northrop Grumman, Linthicum, MD	25227	30720	2Q	5494	2Q	3150	2Q	Cont.	Cont.	Cont.
Technology Insertion of Current Force capabilities into DCGS-A baseline	Sole Source CPIF/CPAF	Northrop Grumman, Linthicum, MD	10050	24330	1-3Q	14855	1-3Q	12833	1-3Q	Cont.	Cont.	Cont.
SIL design, planning and implementation of 10.2 DIB, JIOC-I Brain, and V3/V4	MIPR	CERDEC, Ft. Monmouth	10950	5580	1Q	2162	1Q	576	1Q	Cont.	Cont.	Cont.
FIA/TES-M Migration to Fixed Site	Sole Source	ASPO/Northrop Grumman	16800								16800	
Subtotal:			76150	63435		25361		19334		Cont.	Cont.	Cont.
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Matrix Support	MIPR	RDCOM/CECOM, Ft. Monmouth, NJ	2074	1125	1Q	1240	1Q	1285	1Q	Cont.	Cont.	Cont.
SETA Support	Competitive T&M	Booz-Allen Hamilton	1638	1150	1-2Q						2788	
SETA Support	Competitive T&M	TBD		3870	1-2Q	4965		5150			13985	
Subtotal:			3712	6145		6205		6435		Cont.	Cont.	Cont.

ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY 7 - Operational system development	PE NUMBER AND TITLE 0305208A - Distributed Common Ground/Surface Systems	PROJECT D07
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III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Test support	MIPR	ATEC	1577								1577	
Subtotal:			1577								1577	

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Project Management	In House	PM DCGS-A	3652	6203	1Q	2880		2390		Cont.	Cont.	Cont.
Subtotal:			3652	6203		2880		2390		Cont.	Cont.	Cont.

Project Total Cost:			85091	75783		34446		28159		Cont.	Cont.	Cont.
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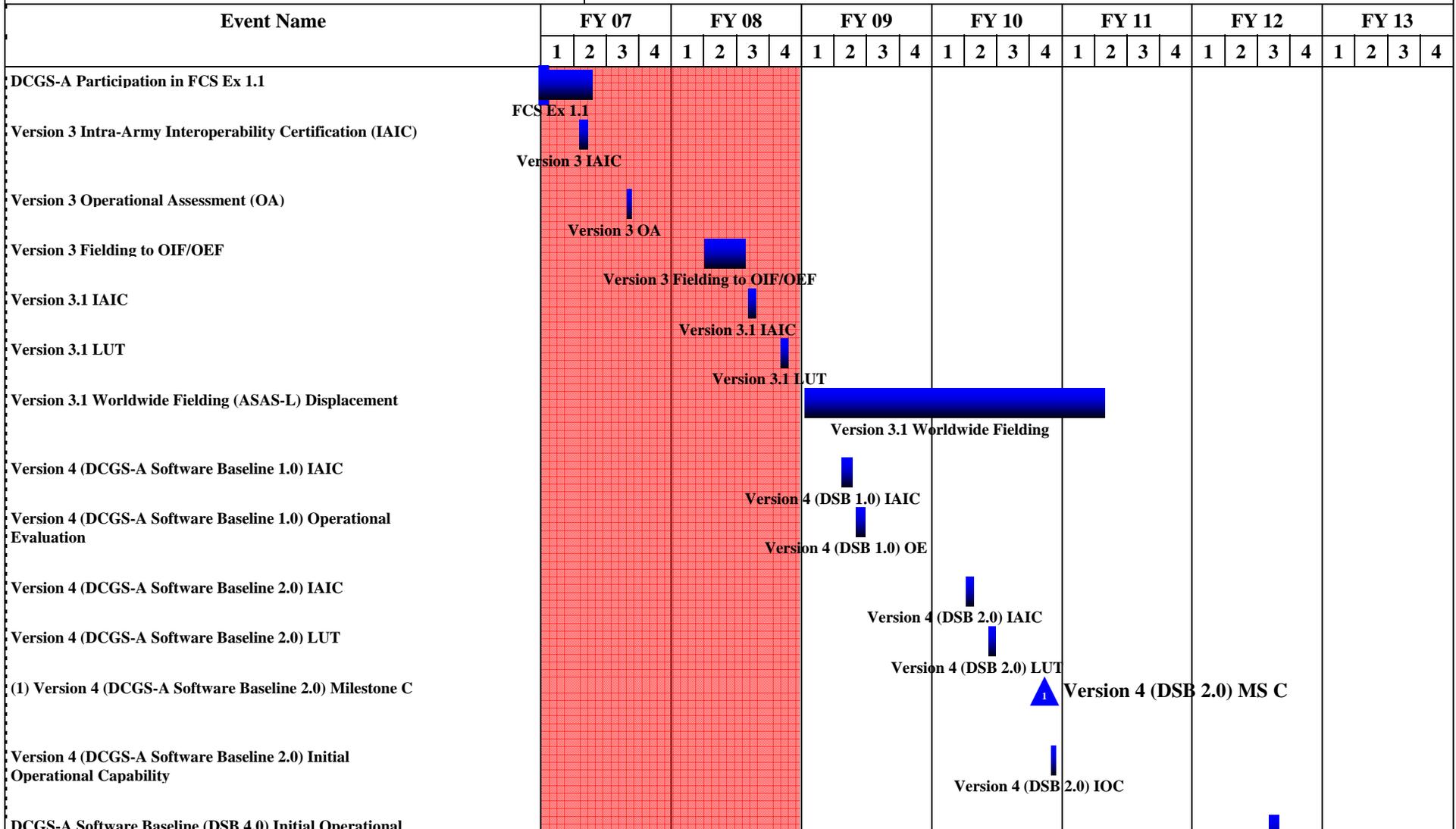
Schedule Profile (R4 Exhibit)

February 2008

BUDGET ACTIVITY
7 - Operational system development

PE NUMBER AND TITLE
0305208A - Distributed Common Ground/Surface Systems

PROJECT
D07



Schedule Profile (R4 Exhibit)

February 2008

BUDGET ACTIVITY 7 - Operational system development	PE NUMBER AND TITLE 0305208A - Distributed Common Ground/Surface Systems																PROJECT D07											
Event Name	FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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
(2) DCGS-A Full Rate Production																									▲ DCGS-A FRP			

Schedule Detail (R4a Exhibit)

February 2008

BUDGET ACTIVITY 7 - Operational system development		PE NUMBER AND TITLE 0305208A - Distributed Common Ground/Surface Systems					PROJECT D07	
<u>Schedule Detail</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	
DCGS-A Participation in FCS Ex 1.1	1Q - 2Q							
Version 3 Intra-Army Interoperability Certification (IAIC)	2Q							
Version 3 Operational Assessment (OA)	3Q							
Version 3 Fielding to OIF/OEF		2Q - 3Q						
Version 3.1 IAIC		3Q						
Version 3.1 LUT		4Q						
Version 3.1 Worldwide Fielding (ASAS-L) Displacement			1Q - 4Q	1Q - 4Q	1Q - 2Q			
Version 4 (DCGS-A Software Baseline 1.0) IAIC			2Q					
Version 4 (DCGS-A Software Baseline 1.0) Operational Evaluation			2Q					
Version 4 (DCGS-A Software Baseline 2.0) IAIC				2Q				
Version 4 (DCGS-A Software Baseline 2.0) LUT				2Q				
Version 4 (DCGS-A Software Baseline 2.0) Milestone C				4Q				
Version 4 (DCGS-A Software Baseline 2.0) Initial Operational Capability				4Q				
DCGS-A Software Baseline (DSB 4.0) Initial Operational Test & Eval (IOT&E)						3Q		
DCGS-A Full Rate Production						4Q		

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2008

BUDGET ACTIVITY 7 - Operational system development		PE NUMBER AND TITLE 0305208A - Distributed Common Ground/Surface Systems						PROJECT D08	
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
D08 DCGS-A SENSOR INTEGRATION (MIP)	10167	10780	10907	4074	2003	1000	1000	Continuing	Continuing

A. Mission Description and Budget Item Justification: Distributed Common Ground System - Army (DCGS-A) will serve as the primary ground system of systems for airborne and ground sensor platforms defined as Future Force systems. DCGS-A enables the commander to achieve situational understanding by leveraging multiple sources of data, information, and intelligence to synchronize the elements of Joint and Combined Arms combat power (maneuver, maneuver support and maneuver sustainment support). The core functions of DCGS-A are: collection and processing of space, airborne, ground and maritime Intelligence, Surveillance and Reconnaissance (ISR) sensor data; control of select Army and joint ISR sensor systems; intelligence synchronization; ISR planning, reconnaissance and surveillance (R&S) integration; fusion of sensor information, and direction and distribution/dissemination of sensor information. It draws information from a wide variety of automated and manual sources; on-board sensors, space platforms, unattended air and ground vehicles, existing and new ISR capabilities, and an assortment of databases to enable the land component commander to execute battle command, synchronize fires and effects, rapidly shift battle focus, achieve situational understanding, protect the force, and employ his forces more effectively. DCGS-A allows commanders at all levels to visualize and understand the threat and environment, predict threat intentions, execute targeting through targeting support, conduct ISR integration and support Information Operations.

This project addresses Intelligence, Surveillance and Reconnaissance (ISR) sensor integration and interoperability with existing and new platforms and sensors to include a common data link solution.

FY09 funds transition, test, integration and training of new and Current Force sensors into the DCGS-A system design and architecture.

<u>Accomplishments/Planned Program:</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Continue to isolate and integrate Current Force Multi-INT sensor (Human Intelligence, Imagery Intelligence, Signal Intelligence, Measurement and Signature Intelligence) modules into the DCGS-A network.	3261	2859	2344
Continued planning and analysis of Future Force Multi-INT sensor modules for incorporation into the DCGS-A network.	1152	4230	4319
Continue to refactor Current Force ISR capabilities in the DCGS-A infrastructure.	2178	1606	1020
Continued development of training materials for V3 and V4 Mobile systems.	826	2085	3224
Completed IMAg-ATC and Net-Centric Imagery Applications for Fixed and Mobile Sites of Multi-Services DCGS-A	2750		
Total	10167	10780	10907

<u>B. Other Program Funding Summary</u>	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
BZ7316 DCGS-A Unit of Employment	145098	146632	179146	201430	167810	160314	164586	Continuing	Continuing

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2008

BUDGET ACTIVITY

7 - Operational system development

PE NUMBER AND TITLE

0305208A - Distributed Common Ground/Surface Systems

PROJECT

D08

Comment:

C. Acquisition Strategy DCGS-A will be executed via an evolutionary acquisition approach, providing incremental capability through Technology Insertion of Current Force systems and System Development and Demonstration (SDD) of Capability Demonstration Document (CDD) requirements. Each increment will incorporate and validate select DCGS-A capabilities into the overall DCGS-A system baseline, emphasizing migration of current force capabilities through integrated testing and continuous evaluation opportunities.

ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
7 - Operational system development			0305208A - Distributed Common Ground/Surface Systems							D08		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Integrate Current Force Multi-INT sensor modules into DCGS-A	Sole Source CPIF/CPAF	Northrop Grumman, Linthicum, MD	9447	3567	1Q	3014	2Q	2666	2Q	Cont.	Cont.	Cont.
Analysis of Future Force Multi-INT sensor modules for DCGS-A network	Sole Source CPIF/CPAF	Northrop Grumman, Linthicum, MD	925	1900	2Q	3941	2Q	4100	2Q	Cont.	Cont.	Cont.
Develop and Integrate components for sensor data distribution in DCGS-A	Sole Source CPIF	SRE, Susquehanna, PA	5498	2700	1Q					Cont.	Cont.	Cont.
Develop training materials	T&M	JHT, Orlando, FL	519	780	2Q	2575	2Q	2881	2Q	Cont.	Cont.	Cont.
Subtotal:			16389	8947		9530		9647		Cont.	Cont.	Cont.
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Matrix Support	MIPR	CECOM	375	200	1Q	200	1Q	200		Cont.	Cont.	Cont.
Subtotal:			375	200		200		200		Cont.	Cont.	Cont.
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Integration and test of Current Force sensor modules into DCGS-A Spirals	Competitive CPIF/CPAF	Northrop Grumman, Linthicum, MD	833								833	
Subtotal:			833								833	

ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY 7 - Operational system development	PE NUMBER AND TITLE 0305208A - Distributed Common Ground/Surface Systems	PROJECT D08
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IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Program Management	In House	PM DCGS-A	2509	1020	1Q	1050		1060		Cont.	Cont.	Cont.
Subtotal:			2509	1020		1050		1060		Cont.	Cont.	Cont.
Project Total Cost:			20106	10167		10780		10907		Cont.	Cont.	Cont.

Schedule Profile (R4 Exhibit)

February 2008

BUDGET ACTIVITY
7 - Operational system development

PE NUMBER AND TITLE
0305208A - Distributed Common Ground/Surface Systems

PROJECT
D08

Event Name	FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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
DCGS-A Participation in FCS Ex 1.1	█																											
Version 3 Intra-Army Interoperability Certification (IAIC)	█																											
Version 3 Operational Assessment (OA)	█																											
Version 3 Fielding to OIF/OEF	█																											
Version 3.1 IAIC	█																											
Version 3.1 LUT	█																											
Version 3.1 Worldwide Fielding (ASAS Displacement)	█												█															
Version 4 (DCGS-A Software Baseline 1.0) IAIC	█																											
Version 4 (DCGS-A Software Baseline 1.0) Operational Evaluation	█																											
Version 4 (DCGS-A Software Baseline 2.0) IAIC	█																											
Version 4 (DCGS-A Software Baseline 2.0) LUT	█																											
(1) Version 4 (DCGS-A Software Baseline 2.0) Milestone C	█																											
(2) Version 4 (DCGS-A Software Baseline 2.0) Initial Operational Capability	█																											

Schedule Profile (R4 Exhibit)

February 2008

BUDGET ACTIVITY 7 - Operational system development	PE NUMBER AND TITLE 0305208A - Distributed Common Ground/Surface Systems												PROJECT D08															
Event Name	FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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
DCGS-A Software Baseline (DSB 4.0) Initial Operational Test & Eval (IOT&E)																					<div style="text-align: center;">  DSB 4.0 IOT&E </div>				<div style="text-align: center;">  DCGS-A FRP </div>			
(3) DCGS-A Full Rate Production																												

Schedule Detail (R4a Exhibit)

February 2008

BUDGET ACTIVITY 7 - Operational system development		PE NUMBER AND TITLE 0305208A - Distributed Common Ground/Surface Systems					PROJECT D08	
<u>Schedule Detail</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	
DCGS-A Participation in FCS Ex 1.1	1Q - 2Q							
Version 3 Intra-Army Interoperability Certification (IAIC)	2Q							
Version 3 Operational Assessment (OA)	3Q							
Version 3 Fielding to OIF/OEF		2Q - 3Q						
Version 3.1 IAIC		3Q						
Version 3.1 LUT		4Q						
Version 3.1 Worldwide Fielding (ASAS Displacement)			1Q - 4Q	1Q - 4Q	1Q - 2Q			
Version 4 (DCGS-A Software Baseline 1.0) IAIC			2Q					
Version 4 (DCGS-A Software Baseline 1.0) Operational Evaluation			2Q					
Version 4 (DCGS-A Software Baseline 2.0) IAIC				2Q				
Version 4 (DCGS-A Software Baseline 2.0) LUT				2Q				
Version 4 (DCGS-A Software Baseline 2.0) Milestone C				4Q				
Version 4 (DCGS-A Software Baseline 2.0) Initial Operational Capability				4Q				
DCGS-A Software Baseline (DSB 4.0) Initial Operational Test & Eval (IOT&E)						3Q		
DCGS-A Full Rate Production						4Q		