Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army										DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*				R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/Surface Systems*							
COST ($ in Millions)	**FY 2010**	**FY 2011**	**FY 2012 Base**	**FY 2012 OCO**	**FY 2012 Total**	**FY 2013**	**FY 2014**	**FY 2015**	**FY 2016**	**Cost To Complete**	**Total Cost**
Total Program Element	191.253	119.202	44.198	-	44.198	39.692	33.470	20.655	20.985	Continuing	Continuing
956: *Distributed Common Ground System (DCGS) (MIP)*	190.603	118.582	44.198	-	44.198	39.692	33.470	20.655	20.985	Continuing	Continuing
D15: *MUSE & TES TADSS (MIP)*	0.650	0.620	-	-	-	-	-	-	-	0.000	1.270

Note

Change Summary Explanation: FY10 Project 956 Congressional Adds: $2,000 for Asymmetric Threat Response and Analysis Project (ATRAP) and $788 for Army/ Joint STARS Surveillance and Control Data Link (SCDL). FY12 Project 956 increased $12,499 to fund Cloud Development.

A. Mission Description and Budget Item Justification

Distributed Common Ground System-Army (DCGS-A) is the Army's Intelligence, Surveillance, and Reconnaissance (ISR) family of systems (FoS) for joint, interagency, allied, coalition, and National data analysis, information sharing, and collaboration. DCGS-A is the ISR component of the modular and future forcesBattle Command System, the Army's component of the Defense Intelligence Information Enterprise (DI2E), and the Army's system for ISR sensor tasking, data processing, data exploitation, data dissemination, of combat information and intelligence. It provides commanders from maneuver company to Army Service Component Command access to the DI2E and National intelligence collection, analysis, and targeting capabilities.

DCGS-A provides a single integrated ground processing system composed of common Commercial off-the-shelf (COTS) and Government off-the-shelf (GOTS) components that are interoperable with National, theater, and tactical sensors, other information sources, Army and joint battle command systems and the DI2E, which includes the DoD DCGS FoS. DCGS-A software is tailored by echelon and is scalable to each units mission. DCGS-A provides commanders and staffs the ability to maintain an accurate and up to date understanding of the operational environment. DCGS-A's contributions to commanders' visualization and situational awareness, rapid planning, and the synchronization of all warfighting functions enable Army units to operate within the enemy's decision cycle. This capability enhances tactical and operational maneuver and the conduct of full spectrum operations across the range of military operations from humanitarian to major combat operations.

DCGS-A core functions are to receive and process space, aerial, ground, and maritime sensor data; to control select Army and joint sensors systems; to synchronize planning and operations; to integrate reconnaissance and surveillance; to fuse theater-wide information; and to direct and distribute relevant and timely threat, weather, and terrain data, information, and intelligence. It is designated a Major Automated Information System (MAIS) program that operates across multiple security levels throughout the DI2E. As enhanced capabilities are developed and tested, annual software releases are integrated into Army Common/commodity hardware and fielded to units IAW the Army Force Generation (ARFORGEN) process.

The DCGS-A configurations range from laptops to systems integrated in tactical shelters and mounted on tactical vehicles to large commodity servers operating in a Cloud Processing Architecture. Main cloud nodes will be placed in data centers strategically located across the globe, while tactical edge cloud nodes will be integrated within select existing equipment currently on units Modified Tables of Organization & Equipment (MTOE) lists. The fundamental intent and tenet of this approach is to reduce forward deployed equipment/footprint by co-locating the advanced analytics capabilities within the DCGS-A baseline with the regional data centers, where the

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army	DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/Surface Systems*

data is stored. This infrastructure consolidation simultaneously reduces processor and communications requirements in tactical units by limiting the number of large data files transported across tactical communications systems. The first DCGS-A cloud node was deployed to Operation ENDURING FREEDOM (OEF) in 1QFY11. The design and deployment strategy of the tactical edge nodes will be finalized in FY11 as well. Following a successful operational assessment and Milestone C Oct 11/Full Deployment Decision in Sep 12, DCGS-A Software Baseline (DSB) 1.0 capability will be deployed across the DCGS-A enterprise.

DCGS-A consolidates and modernizes the tasking, processing, exploitation, and dissemination (TPED) capabilities found in the following programs: Joint Intelligence Operations Capability-Iraq (JIOC-I), All Source Analysis System (ASAS) FoS, Tactical Exploitation System (TES) FoS, Integrated Meteorological System (IMETS) FoS, Digital Topographic Support System (DTSS) FoS, Counterintelligence and Interrogation Operations (CI&I Ops) workstation, Guardrail Common Sensor Intelligence Processing Facility/Guardrail Ground Baseline, Common Ground Station, Prophet Control, and Enhanced Trackwolf processing capabilities. DCGS-A provides these technologically advanced PED capabilities in tailored and scalable mobile and fixed configurations in all combat and combat support units from company to Army Service Component Command, and in select combat service support units brigade and above. The program will also develop software packages that will be embedded into battle command and other select systems to provide required ISR/analytic capabilities. DCGS-A is a key component of the DoD ISR Task Force modernization efforts and a critical Army priority

B. Program Change Summary ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	188.465	119.202	31.699	-	31.699
Current President's Budget	191.253	119.202	44.198	-	44.198
Total Adjustments	2.788	-	12.499	-	12.499
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	12.499	-	12.499
• Other Adjustments 1	2.788	-	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/ Surface Systems*	PROJECT 956: *Distributed Common Ground System (DCGS) (MIP)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
956: *Distributed Common Ground System (DCGS) (MIP)*	190.603	118.582	44.198	-	44.198	39.692	33.470	20.655	20.985	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

Distributed Common Ground System-Army (DCGS-A) is the Army's Intelligence, Surveillance, and Reconnaissance (ISR) family of systems (FoS) for joint, interagency, allied, coalition, and National data analysis, information sharing, and collaboration. DCGS-A is the ISR component of the modular and future forces, Battle Command System, the Army's component of the Defense Intelligence Information Enterprise (DI2E), and the Army's system for ISR sensor tasking, data processing, data exploitation, data dissemination, of combat information and intelligence. It provides commanders from maneuver company to Army Service Component Command access to the DI2E and National intelligence collection, analysis, and targeting capabilities.

DCGS-A provides a single integrated ground processing system composed of common Commercial off-the-shelf (COTS) and Government off-the-shelf (GOTS) components that are interoperable with National, theater, and tactical sensors, other information sources, Army and joint battle command systems and the DI2E, which includes the DoD DCGS FoS. DCGS-A software is tailored by echelon and is scalable to each unit's mission. DCGS-A provides commanders and staffs the ability to maintain an accurate and up to date understanding of the operational environment. DCGS-A's contributions to commanders visualization and situational awareness, rapid planning, and the synchronization of all warfighting functions enable Army units to operate within the enemy's decision cycle. This capability enhances tactical and operational maneuver and the conduct of full spectrum operations across the range of military operations from humanitarian to major combat operations.

DCGS-A core functions are to receive and process space, aerial, ground, and maritime sensor data; to control select Army and joint sensors systems; to synchronize planning and operations; to integrate reconnaissance and surveillance; to fuse theater-wide information; and to direct and distribute relevant and timely threat, weather, and terrain data, information, and intelligence. It is designated a Major Automated Information System (MAIS) program that operates across multiple security levels throughout the DI2E. As enhanced capabilities are developed and tested, annual software releases are integrated into Army Common/commodity hardware and fielded to units IAW the Army Force Generation (ARFORGEN) process.

The DCGS-A configurations range from laptops to systems integrated in tactical shelters and mounted on tactical vehicles to large commodity servers operating in a Cloud Processing Architecture. Main cloud nodes will be placed in data centers strategically located across the globe, while tactical edge cloud nodes will be integrated within select existing equipment currently on unit's Modified Tables of Organization & Equipment (MTOE) lists. The fundamental intent and tenet of this approach is to reduce forward deployed equipment/footprint by co-locating the advanced analytics capabilities within the DCGS-A baseline with the regional data centers, where the data is stored. This infrastructure consolidation simultaneously reduces processor and communications requirements in tactical units by limiting the number of large data files transported across tactical communications systems. The first DCGS-A cloud node was deployed to Operation ENDURING FREEDOM (OEF) in 1QFY11. The design and deployment strategy of the tactical edge nodes will be finalized in FY11 as well. Following a successful operational assessment and Milestone C Oct 11/Full Deployment Decision in Sep 12, DCGS-A Software Baseline (DSB) 1.0 capability will be deployed across the DCGS-A enterprise.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/ Surface Systems*	PROJECT 956: *Distributed Common Ground System (DCGS) (MIP)*

DCGS-A consolidates and modernizes the tasking, processing, exploitation, and dissemination (TPED) capabilities found in the following programs: Joint Intelligence Operations Capability-Iraq (JIOC-I), All Source Analysis System (ASAS) FoS, Tactical Exploitation System (TES) FoS, Integrated Meteorological System (IMETS) FoS, Digital Topographic Support System (DTSS) FoS, Counterintelligence and Interrogation Operations (CI&I Ops) workstation, Guardrail Common Sensor Intelligence Processing Facility/Guardrail Ground Baseline, Common Ground Station, Prophet Control, and Enhanced Trackwolf processing capabilities. DCGS-A provides these technologically advanced PED capabilities in tailored and scalable mobile and fixed configurations in all combat and combat support units from company to Army Service Component Command, and in select combat service support units brigade and above. The program will also develop software packages that will be embedded into battle command and other select systems to provide required ISR/analytic capabilities. DCGS-A is a key component of the DoD ISR Task Force modernization efforts and a critical Army priority

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Design and Development of DCGS-A enterprise level net-centric architecture ***Articles:*** ***Description:*** Continue design and development of DCGS-A enterprise level net-centric architecture to include: Development & Integration of DCGS-A Software; Development and Assembly of Competitive Data Package; Limited User Test, Developmental Testing, Mobile Basic Data and Program Management support costs ***FY 2010 Accomplishments:*** Continued design and development of DCGS-A enterprise level net-centric architecture to include: Development & Integration of DCGS-A Software; Development and Assembly of Competitive Data Package; Limited User Test, Developmental Testing, Mobile Basic Data and Program Management support costs ***FY 2011 Plans:*** Continue design and development of DCGS-A enterprise level net-centric architecture to include: Development & Integration of DCGS-A Software; Development and Assembly of Competitive Data Package; Limited User Test, Developmental Testing, Mobile Basic Data and Program Management support costs ***FY 2012 Base Plans:*** Continue and complete design and development of DCGS-A enterprise level net-centric architecture to include: Development & Integration of DCGS-A Software; Development and Assembly of Competitive Data Package; Limited User Test, Developmental Testing, Mobile Basic Data and Program Management support costs	123.431 0	102.382 0	3.164	-	3.164
Title: Cloud development ***Articles:*** ***Description:*** Global Unified Data Environment (Cloud) development - creates near real-time multi-intelligence analytics environment, extends access and reduces analytic response time.	-	13.200 0	21.500	-	21.500

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/ Surface Systems*	PROJECT 956: *Distributed Common Ground System (DCGS) (MIP)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
FY 2011 Plans: Global Unified Data Environment (Cloud) development - creates near real-time multi-intelligence analytics environment, extends access and reduces analytic response time. ***FY 2012 Base Plans:*** Global Unified Data Environment (Cloud) development - creates near real-time multi-intelligence analytics environment, extends access and reduces analytic response time.					
Title: Human Terrain Teams ***Articles:*** ***Description:*** Human Terrain Teams - Develop software for the MAP-HT system for capabilities above the baseline 1.0 release. ***FY 2011 Plans:*** Human Terrain Teams - Develop software for the MAP-HT system for capabilities above the baseline 1.0 release	-	3.000 0	-	-	-
Title: Software evaluation, integration and test ***Articles:*** ***Description:*** Continue to evaluate, integrate and test new software applications and components for incorporation into the DCGS-A Software Baseline (DSB). ***FY 2010 Accomplishments:*** Continue to evaluate, integrate and test new software applications and components for incorporation into the DCGS-A Software Baseline (DSB).	21.601 0	-	-	-	-
Title: Army and Joint Testing ***Articles:*** ***Description:*** Ongoing Army and Joint interoperability testing and evaluation to include Operational Assessment (Empire Challenge)$1.8M, JITC ($1.1M), and Operational Test ($14.2M) ***FY 2010 Accomplishments:***	1.600 0	-	17.100	-	17.100

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/ Surface Systems*	PROJECT 956: *Distributed Common Ground System (DCGS) (MIP)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Ongoing Army and Joint interoperability testing and evaluation to include Operational Assessment (Empire Challenge)$1.8M, JITC ($1.1M), and Operational Test ($14.2M) ***FY 2012 Base Plans:*** Ongoing Army and Joint interoperability testing and evaluation to include Central Test Support Facility (CTSF) testing.					
Title: Migrate Sensor Fusion processes and Current Force systems capabilities ***Articles:*** ***Description:*** Continue to migrate sensor fusion processes and Current Force systems capabilities (multi-INT sources, geospatial and weather data) into DCGS-A Service Oriented Architecture (SOA) environment. Continue development and integration of SIGINT and All Source applications and the integration framework for DCGS-A Multi-Function Workstation (MFWS). ***FY 2010 Accomplishments:*** Continue to migrate sensor fusion processes and Current Force systems capabilities (multi-INT sources, geospatial and weather data) into DCGS-A Service Oriented Architecture (SOA) environment. Continue development and integration of SIGINT and All Source applications and the integration framework for DCGS-A Multi-Function Workstation (MFWS).	2.558 0	-	-	-	-
Title: Support Costs and Management Services ***Description:*** Funding is provided for the following effort ***FY 2012 Base Plans:*** Provide matrix support and PMO efforts	-	-	2.434	-	2.434
Title: Standard Sharable Geospatial Foundation Support ***Articles:*** ***Description:*** Standard Sharable Geospatial Foundation Development to support Unified Battle Command Shared Low Bandwidth Imagery ***FY 2010 Accomplishments:***	3.550 0	-	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/ Surface Systems*	PROJECT 956: *Distributed Common Ground System (DCGS) (MIP)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Standard Sharable Geospatial Foundation Development to support Unified Battle Command Shared Low Bandwidth Imagery					
Title: Develop and enhance two-way Battle Command ***Articles:*** ***Description:*** Continue to develop and enhance two-way Battle Command to include Joint Command and Control (JC2) interoperability. (previously Project D07) ***FY 2010 Accomplishments:*** Continue to develop and enhance two-way Battle Command to include Joint Command and Control (JC2) interoperability. (previously Project D07)	5.665 0	-	-	-	-
Title: Current and Future Force Multi-INT sensor ***Articles:*** ***Description:*** 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. Continued planning and analysis of Future Force Multi-INT sensor modules for incorporation into the DCGS-A network. (previously Project D08) ***FY 2010 Accomplishments:*** 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. Continued planning and analysis of Future Force Multi-INT sensor modules for incorporation into the DCGS-A network. (previously Project D08)	5.370 0	-	-	-	-
Title: HIPPIE ***Articles:*** ***Description:*** Continue Heuristic Internet Protocol Packet Inspection Engine. ***FY 2010 Accomplishments:*** Continue Heuristic Internet Protocol Engine.	1.040 0	-	-	-	-
Title: Intelligence Integrated Architecture ***Articles:***	23.000 0	-	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/ Surface Systems*	PROJECT 956: *Distributed Common Ground System (DCGS) (MIP)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Description: Modify Intelligence Integrated Architecture (I2A) to apply cloud computing technology to operational and tactical DCGS-A architecture. ***FY 2010 Accomplishments:*** Modify Intelligence Integrated Architecture (I2A) to apply cloud computing technology to operational and tactical DCGS-A architecture.					
Title: Asymmetric Threat Response and Anaylsis Project (ATRAP) ***Articles:*** ***Description:*** Congressional add. Asymmetric Threat Response and Anaylsis Project (ATRAP) ***FY 2010 Accomplishments:*** Asymmetric Threat Response and Anaylsis Project (ATRAP)	2.000 0	-	-	-	-
Title: Army/Joint STARS Surveillance and Control Data Link (SCDL) ***Articles:*** ***Description:*** Congressional Add ***FY 2010 Accomplishments:*** Congressional Add	0.788 0	-	-	-	-
Accomplishments/Planned Programs Subtotals	190.603	118.582	44.198	-	44.198

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• BZ7316: *DCGS-A (MIP)*	335.588	334.516	144.548	83.000	227.548		265.032	316.418	437.621	Continuing	Continuing

D. Acquisition Strategy

The Distributed Common Ground System-Army (DCGS-A) program was created in response to the Department of Defense (DoD) Distributed Common Ground/ Surface System (DCGS) Mission Area Initial Capabilities Document (MA ICD) dated 13 Aug 2004, which captured the overarching requirements for an Intelligence, Surveillance, and Reconnaissance (ISR) Family of Systems (FoS) that will contribute to Joint and combined Warfighter needs. That ICD was updated as the Distributed Common Ground/Surface System (DCG/SS) Enterprise ICD, and approved by the Joint Requirements Oversight Council (JROC) 27 Feb 2009. The Army requirements were refined in the DCGS-A Capabilities Development Document (CDD), and approved by the JROC 31 Oct 2005. The DCGS-A program is currently

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/ Surface Systems*	PROJECT 956: *Distributed Common Ground System (DCGS) (MIP)*

in the Engineering, Manufacturing and Development (EMD) phase as authorized by the PEO IEW&S ADM dated 6 Apr 2006. DCGS-A was designated as a Major Automated Information System (MAIS) in OSD(AT&L) Memorandum, 29 Mar 2010.

DCGS-A is following an evolutionary acquisition approach to develop and field system capabilities over time to satisfy the requirements of the DCGS-A Capability Development Document (CDD). Following this approach, the first increment was defined and a Capability Production Document (CPD) was created with full consideration of all of the preceding supporting documents and analysis. As part of its initial staffing, a Cost Benefit Analysis was completed in support of the DCGS-A CPD. This analysis projected a significant cost avoidance/savings over the life cycle by not limiting the hardware configuration to a one size fits all unit types design but rather integrating the DCGS-A SW capabilities into common servers and other IT components fielded at that echelon. This approach was included in the CPD and is being added to an updated DCGS-A Acquisition Strategy. The CPD is currently in formal staffing at HQDA. It is anticipated that the JROC approval will be in 4th Quarter FY 11.

The DCGS-A System Engineering Plan (SEP) updated the current development plan and was approved by OSD DASD (C4ISR & IT Acquisition) on 3 Dec 2009. The DCGS-A Acquisition Strategy Report (ASR) was approved by the Defense Acquisition Executive (DAE) on 26 Jun 2010. It is anticipated the DCGS-A Acquisition Program Baseline will be approved as an Acquisition Category (ACAT) IAM in 3rd Quarter FY11 and Army will be instructed to transition the DCGS-A program into the Department's emerging Information Technology streamlined acquisition approach. The DCGS-A program is currently preparing for a milestone C in 1Q12 and an operational test in 2Q12 and on a subsequent FDD decision in 4Q12.

FY12 Funding Execution: Completion of the Operation Test and FDD. It also provides development and evaluation of technology initiatives and continues under competitively awarded contracts. CERDEC/SEC at Ft. Monmouth, NJ continues the DCGS-A Cloud development under a competitive contract.

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/ Surface Systems*	PROJECT 956: *Distributed Common Ground System (DCGS) (MIP)*

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Management	Various	PM, DCGS-A:APG, MD	8.175	6.957		2.434		-		2.434	Continuing	Continuing	Continuing
		Subtotal	8.175	6.957		2.434		-		2.434			

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Design and development of DCGS-A architecture, software baseline and mobile hardware configuration.	Various	Northrop Grumman:Linthicum, Md.	-	74.699		3.164		-		3.164	Continuing	Continuing	Continuing
SETA Support to Visualization/Data Sharing, Modeling & Simulation	Various	Booz-Allen,:various	15.225	-		-		-		-	Continuing	Continuing	Continuing
DCGS-A Product Selection and Integration	Various	CERDEC/SEC,:various	17.270	-		-		-		-	Continuing	Continuing	Continuing
Metadata Catalog	Various	MITRE,:various	7.135	6.595		-		-		-	Continuing	Continuing	Continuing
SIL Software Integration	Various	CERDEC/ RDCOM:various	11.537	-		-		-		-	Continuing	Continuing	Continuing
Effects Based Approach to Operations	Various	Battle Labs:Austin, TX	2.600	-		-		-		-	Continuing	Continuing	Continuing
Heuristic Internet Protocol Engine	Various	Battle Labs:Austin, TX	2.000	-		-		-		-	Continuing	Continuing	Continuing
Blast Risk Analysis and Mitigation Application	Various	Battle Labs:Austin, TX	1.850	-		-		-		-	Continuing	Continuing	Continuing
Asymmetric Threat Response and Analysis Project	Various	Battle Labs:Austin, Tx.	4.900	-		-		-		-	Continuing	Continuing	Continuing
Beyond Line of Sight (BLOS) Network for MASINT Sensors	Various	Battle Labs:Austin, TX	0.800	-		-		-		-	Continuing	Continuing	Continuing
Silver Fox and MANTA	Various	Battle Labs:Austin, TX	2.000	-		-		-		-	Continuing	Continuing	Continuing
Human Terrain Teams - Develop software for the MAP-	Various	CERDEC/SEC:various	-	3.000		-		-		-	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/ Surface Systems*	PROJECT 956: *Distributed Common Ground System (DCGS) (MIP)*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
HT system for capabilities above the baseline 1.0													
Constant Look Operational Support Environment (CLOSE)	Various	Battle Labs:various	0.800	-		-		-		-	Continuing	Continuing	Continuing
Global Unified Data Environment (Cloud) Development	Various	CERDEC/SEC:APG, MD	-	13.200		21.500		-		21.500	Continuing	Continuing	Continuing
SCDL	Various	CUBIC:Orlando, Fla.	-	-		-		-		-	Continuing	Continuing	0.000
		Subtotal	66.117	97.494		24.664		-		24.664			

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Objective Doctrine/TTP Development	Various	various:various	7.023	-		-		-		-	Continuing	Continuing	Continuing
Matrix Support	Various	CECOM:CECOM	6.574	3.591		-		-		-	Continuing	Continuing	Continuing
		Subtotal	13.597	3.591		-		-		-			

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Test	Various	ATEC:ATEC	-	2.738		-		-		-	Continuing	Continuing	Continuing
LUT	Various	ATEC:Various	-	5.381		-		-		-	Continuing	Continuing	Continuing
Operational Test support for DCGS-A	Various	ATEC:ATEC	4.765	2.421		14.200		-		14.200	Continuing	Continuing	Continuing
Operational Assessment	Various	Empire Challenge:CA.	-	-		1.800		-		1.800	0.000	1.800	0.000
JITC	Various	TBD:TBD	-	-		1.100		-		1.100	0.000	1.100	0.000

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/ Surface Systems*	PROJECT 956: *Distributed Common Ground System (DCGS) (MIP)*

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	4.765	10.540		17.100		-		17.100			

	Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	92.654	118.582		44.198		-		44.198			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Army		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0305208A: *Distributed Common Ground/ Surface Systems*	**PROJECT** 956: *Distributed Common Ground System (DCGS) (MIP)*

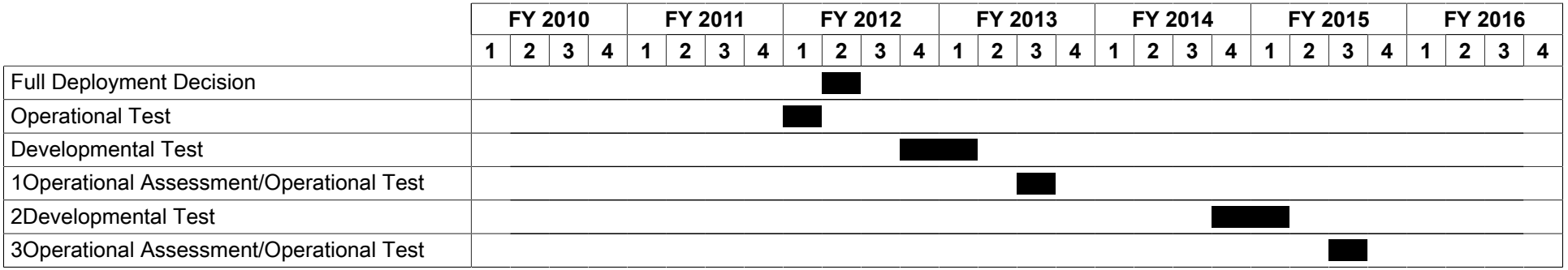

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Army		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0305208A: *Distributed Common Ground/ Surface Systems*	**PROJECT** 956: *Distributed Common Ground System (DCGS) (MIP)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Full Deployment Decision	2	2012	2	2012
Operational Test	1	2012	1	2012
Developmental Test	4	2012	1	2013
1Operational Assessment/Operational Test	3	2013	3	2013
2Developmental Test	4	2014	1	2015
3Operational Assessment/Operational Test	3	2015	3	2015

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/ Surface Systems*	PROJECT D15: *MUSE & TES TADSS (MIP)*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
D15: *MUSE & TES TADSS (MIP)*	0.650	0.620	-	-	-	-	-	-	-	0.000	1.270
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

funds Training Aids, Devices, Simulators and Simulations (TADSS) for the Tactical Exploitation System (TES).

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: TADSS	0.650	0.620	-	-	-
Articles:	0	0			
Description: Funding is provided for the following effort					
FY 2010 Accomplishments: Providerd Training Aids, Devices, Simulators and Simulations (TADSS)					
FY 2011 Plans: Continue Training Aids, Devices, Simulators and Simulations (TADSS)					
Accomplishments/Planned Programs Subtotals	0.650	0.620	-	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.