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Exhibit R-2, RDT&E Budget Item Justification				Date: May 2009				
Appropriation/Budget Activity RDT&E, Defense-Wide/07				R-1 Item Nomenclature Distributed Common Ground/Surface Systems/PE 0305208K				
Cost (\$ in millions)	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
Distributed Common Ground/Surface Systems (DCGS)/NF1	15.689	3.218	3.158					

A. Mission Description and Budget Item Justification: As the sole joint interoperability certification agent, The Joint Interoperability Test Command (JITC) established and maintains a Distributed Development and Test Enterprise (DDTE) for the Department of Defense (DoD) Distributed Common Ground/Surface System (DCGS) Program. DCGS is an integral and critical component of the overall DoD Intelligence, Surveillance, and Reconnaissance (ISR) interoperability and data integration strategy. The DCGS provides world-wide ground/surface capabilities to receive, process, exploit, and disseminate data from airborne and national reconnaissance sensors/platforms and commercial sources. The ability for any user to discover, access, and understand the data are key tenets of network-centric operations which is the future of DCGS operations.

JITC will implement the DDTE providing DCGS an operationally relevant environment by establishing and maintaining connectivity between National Agency and Service facilities at unclassified, collateral, Sensitive Compartmented Information (SCI), and coalition levels. JITC will coordinate with the Services and Agencies on integrating modeling and simulation capabilities, and performing Joint/DCGS event coordination, configuration, and integration functions on the DDTE. This will enable improved systems engineering and test and evaluation throughout all phases of the DCGS life-cycle.

DCGS will use the DDTE to integrate architecture, standards, and capabilities for implementation of the DCGS Integration Backbone and support the migration to net-centricity, including convergence with Net-Centric Enterprise Services (NCES), for the following DCGS programs: DCGS-Army (DCGS-A), DCGS-Navy (DCGS-N), Air Force DCGS (AF DCGS), and DCGS-Marine Corps (DCGS-MC). National Agency capabilities supporting DCGS including Imagery Intelligence (IMINT), Signals Intelligence (SIGINT), Measurement and Signature Intelligence (MASINT) and Human Intelligence (HUMINT), which will also be integrated and tested in the DDTE. The DCGS programs will use the DDTE to improve/validate interoperability with the reconnaissance platforms and sensors, and to integrate into the Joint Command and Control environment.

JITC will develop a formal interoperability testing program and provide interoperability testing service to the DCGS program managers and the Office of the Under Secretary Defense for Intelligence (OUSD(I)) to document interoperability test requirements, to provide standards conformance and interoperability test capabilities, to develop standards conformance and interoperability test planning documents, to conduct standards conformance and interoperability test events, develop DCGS program reporting documents, and to conduct joint interoperability certification. Standards addressed for DDTE will include those defined in coordination with DISA for Net-Enabled Command Capability (NECC),

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NCES, Common Data Link (CDL), Intelligence Broadcast System (IBS), National Imagery Text Format (NITF), LINK 11/11B/16, United States Message Text Format (USMTF), Extensible Markup Language (XML), and Information Assurance (IA).

As all of the DCGS missions assigned to JITC by the OUSD(I) are essential to the overall DCGS mission, reduction in outyear funding will result in reduced support to all of the following: DDTE support, maintenance, and operation; DCGS systems testing and evaluation; responsibilities associated with the Chair of the DCGS Test and Evaluation Focus Team; DCGS Enterprise test strategy development; and Exercise support.

B. Program Change Summary:

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Previous President's Budget	17.289	3.227	3.321
Current Submission	15.689	3.218	3.158
Total Adjustments	-1.600	-0.009	-0.163

Change Summary Explanation:

Fiscal year (FY) 2008 adjustments reflect a realignment of funding due to emerging mission critical requirements within the Agency. FY 2009 reflects Congressional reductions of -\$0.009 million for Economic Assumptions. FY 2010 and 2011 adjustments reflect a realignment of funding due to emerging mission critical requirements within the Agency and revised inflation rates.

C. Other Program Funding:

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	To Complete Cont'g	Total Cost Cont'g
O&M, DW	1.748	0.428	0.456							

D. Acquisition Strategy: DCGS uses an evolutionary acquisition approach. JITC will support the effort by leveraging its existing three prime contracts, with multiple sub-contracts, to support this project. These competitively awarded, performance-based, non-personal-services contracts provide maximum flexibility for JITC supporting its numerous customers for cost and technical effectiveness, and allows for expansion and contraction of staff years as workload expands and contracts. The current prime contractors that will support this effort are Northrop Grumman Mission

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Systems, Northrop Grumman Information Technology, and INTEROP Joint Venture.

E. Performance Metrics:

Number of operational DDTE nodes that enable the Services/agencies to participate in joint/enterprise level test and evaluation (IOC)= 14

Number of additional DDTE nodes planned for installation in FY 2009 = 3

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Exhibit R-3 RDT&E Cost Analysis											Date: May 2009			
Appropriation/Budget Activity RDT&E, Defense-Wide/07				Program Element PE 0305208K				Project Name and Number Distributed Common Ground/Surface Systems/NF1						
<u>Cost Category</u>	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total PY Cost (\$000)</u>	<u>FY08 Cost (\$000)</u>	<u>FY08 Award Date</u>	<u>FY09 Cost (\$000)</u>	<u>FY09 Award Date</u>	<u>FY10 Cost (\$000)</u>	<u>FY10 Award Date</u>	<u>FY11 Cost (\$000)</u>	<u>FY11 Award Date</u>	<u>Cost to Complete (\$000)</u>	<u>Total Cost (\$000)</u>	<u>Target Value of Contract</u>
<u>Test and Evaluation</u> Engineering/ Technical Services	FFP/LOE	Interop Ft. Hua, AZ	0.852	0.302	10/07	0.371	10/08	0.383	10/09			Cont'g	Cont'g	Cont'g
	FFP/LOE	NGMS Ft. Hua, AZ	1.819	3.663	10/07	0.800	10/08	0.798	10/09			Cont'g	Cont'g	Cont'g
	FFP/LOE	NGIT Ft. Hua, AZ	0.556	0.494	10/07	0.256	10/08	0.256	10/09			Cont'g	Cont'g	Cont'g
		TBD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			Cont'g	Cont'g
Subtotal Contracts			3.227	4.459		1.427		1.437						
In-House Total Project			4.149	11.230		1.791		1.721						
			7.376	15.689		3.218		3.158						

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Exhibit R-4, RDT&E Program Schedule Profile														Date: May 2009																		
Appropriation/Budget Activity RDT&E, Defense-Wide, 07								Program Element Number and Name PE 0305208K, Distributed Common Ground/Surface Systems								Project Number and Name NF1, Distributed Common Ground/Surface Systems																
Fiscal Year	FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015			
	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	1	2	3	4
DCGS T&E IPT	▲	▲	▲	▲	△	△	△	△	△	△	△	△																				
Establishment of Infrastructure	▲	▲	▲	▲	△	△	△	△																								
Connectivity to Other Testbeds & Test Event Conduct	▲	▲	▲	▲	△	△	△	△	△	△	△	△																				
O&M					△	△	△	△	△	△	△	△																				

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Exhibit R-4a, RDT&E Program Schedule Detail				Date: May 2009				
Appropriation/Budget Activity		Program Element Number and Name			Project Number and Name			
RDT&E, Defense-Wide/07		PE 0305208K/Distributed Common Ground/Surface Systems			NF1/Distributed Common Ground/Surface Systems			
<u>Schedule Profile</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>	<u>FY 2014</u>	<u>FY 2015</u>
DCGS T&E IPT	1Q-4Q	1Q-4Q	1Q-4Q					
Establishment of Infrastructure	1Q-4Q	1Q-4Q						
Connectivity to Other Testbeds & Test Event Conduct	1Q-4Q	1Q-4Q	1Q-4Q					
O&M		1Q-4Q	1Q-4Q					