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Exhibit R-2, RDT&E Budget Item Justification				Date: February 2008			
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/07				R-1 ITEM NOMENCLATURE Distributed Common Ground/Surface Systems/PE 0305208K			
Cost (\$ in millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Distributed Common Ground/Surface Systems (DCGS)/NF1	7.424	17.289	3.227	3.321	3.721	3.776	3.771

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 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 (DIB) 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) capabilities 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 certification program and provide interoperability testing service to the DCGS program managers and the Office of the Under Secretary of 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

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Command Capability (NECC), 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).

B. Program Change Summary:

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FY 2008 President's Budget	7.424	15.800	3.248
FY 2009 President's Budget	7.424	17.289	3.227
Total Adjustments	-0.000	+1.489	-0.021

Change Summary Explanation:

FY 2008 adjustment is due to increased funding for Constant Look Operation Support Environment (CLOSE).
 FY 2009 adjustment is due to revised economic assumptions.

C. Other Program Funding:

	<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>	To <u>Complete</u>	Total <u>Cost</u>
O&M, DW	0.000	1.748	.428	.432	.459	.447	.447	Cont'g	Cont'g

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

E. Performance Metrics:

Number of DDTE supported DCGS Systems/Capabilities achieved IOC = 10

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Exhibit R-3 RDT&E Cost Analysis						Date: February 2008						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NAME AND NUMBER						
RDT&E, Defense-Wide/07			PE 0305208K			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>FY07 Cost (\$000)</u>	<u>FY07 Award Date</u>	<u>FY08 Cost (\$000)</u>	<u>FY08 Award Date</u>	<u>FY09 Cost (\$000)</u>	<u>FY09 Award Date</u>	<u>Cost to Complete (\$000)</u>	<u>Total Cost (\$000)</u>	<u>Target Value of Contract</u>
Test and Evaluation												
Engineering/Technical Services	FFP/LOE	Interop Ft. Hua, AZ	N/A	0.852	10/06	1.506	10/07	0.371	10/08	Cont'g	Cont'g	Cont'g
	FFP/LOE	NGMS Ft. Hua, AZ	N/A	1.819	10/06	3.245	10/07	0.800	10/08	Cont'g	Cont'g	Cont'g
	FFP/LOE	NGIT Ft. Hua, AZ	N/A	0.556	10/06	1.101	10/07	0.256	10/08	Cont'g	Cont'g	Cont'g
Subtotal Contracts				3.227		5.852		1.427				
In-House				4.197		11.437		1.800				
Total Project				7.424		17.289		3.227				

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Exhibit R-4 Schedule Profile													Date: February 2008																									
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	2007				2008				2009				2010				2011				2012				2013													
	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 and Event Conduct																																						

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Exhibit R-4a, RDT&E Program Schedule Detail				Date: February 2008			
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 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 T&E IPT	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q
Establishment of Infrastructure	1-4Q	1-4Q					
Connectivity to Other Testbeds & Test Event Conduct	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q
O&M and Event Conduct		1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q