

EXHIBIT R-2, RDT&E Budget Item Justification	DATE: <b>February 2005</b>
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APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY / BA-7</b>					R-1 ITEM NOMENCLATURE 0305208N Distributed Common Ground Systems (DCGS)			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	8.814	13.033	12.354	11.735	5.936	4.925	5.076	5.230
A2174 CIGSS (DCGS-N)	4.319	6.495	12.354	11.735	5.936	4.925	5.076	5.230
9440 Enterprise Targeting and Strike System	4.495	2.773						
9652 TES-N/DCGS-N Node at PAX River		3.765						

**(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:** As outlined in the Assistant Secretary of the Navy for Research, Development, and Acquisition (ASN RDA) Memorandum dated 23 JAN 2004, ASN RDA has directed the programmatic merging of the previously separate Joint Service Imagery Processing System-Navy (JSIPS-N) and Joint Fires Network (JFN) programs. This new, merged program construct is hereafter referred to as the Distributed Common Ground Station-Navy (DCGS-N). Attendant to this merger, the Office of the Secretary of Defense (OSD) directed that all Budget Line Items (BLIs) associated with Program Elements (PEs) 0305208N (JSIPS-N) and 0204228N (JFN) be programmatically merged in FY05, and finally combined under the existing 0305208N PE beginning FY06 throughout the balance of the merged program life cycle. As such, the FY05 through FY06 funding breakouts represent the post merge DCGS-N merged program construct.

The Distributed Common Ground System – Navy (DCGS-N) is the Navy’s portion of the OSD DCGS effort. DCGS is a cooperative effort between the services, agencies, and DoD to provide systems capable of automating, coordinating, and correlating, in real time, the reception, processing, exploiting, storing and disseminating of multiple source intelligence (MULTI-INT) from airborne and national reconnaissance assets to provide time-critical fire control solutions for advanced weapon systems and sensors and situational awareness to support C2 decision making and planning. DCGS utilizes the entire spectrum of available intelligence data including Measurements Analysis and Signatures Intelligence (MASINT) data, Signals Intelligence (SIGINT) data, Multi-Intelligence Reconnaissance data, and Imagery Intelligence (IMINT). The automation/correlation provided by DCGS-N will provide the Navy an ability to quickly target and re-target precision strike weapons, greatly enhancing their effectiveness and lethality.

The DCGS-N Converged Architecture (CA) brings together the proven imagery exploitation capabilities of Joint Services Imagery Processing System – Navy (JSIPS-N) Tactical Input Segment (TIS) and the precision mensuration capability of the Precision Targeting Workstation (PTW) and merges them with the Time Critical Strike/Targeting (TCS/T) capability developed by the Joint Fires Network (JFN) and disseminates this throughout the ashore and afloat nodes through the Joint Concentrator Architecture (JCA). This converged capability provides unparalleled flexibility to the warfighter and rapid response capability against rapidly relocatable, time critical targets. DCGS-N Converged Architecture will become part of the DoD DCGS Network Enterprise via the DCGS Integration Backbone (DIB). Engineering work is funded to migrate legacy JFN/JSIPS systems to this network environment. As DCGS 10.2 is developed by the Air Force, DCGS-N will stay abreast of expanding requirements and ensure compliance with the DoD DCGS network architecture.

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**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2005</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>		PROGRAM ELEMENT NUMBER AND NAME 0305208N Distributed Common Ground Systems (DCGS)			PROJECT NUMBER AND NAME A2174/9440/9652 CIGSS (DCGS-N)			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	<b>8.814</b>	<b>13.033**</b>	<b>12.354</b>	<b>11.735</b>	<b>5.936</b>	<b>4.925</b>	<b>5.076</b>	<b>5.230</b>
RDT&E Articles Qty								
<p>*Funding includes FY04 Congressional Add for Enterprise Targeting and Strike System (eTSS) - \$4.495M  **Funding includes FY05 Congressional add for DCGS-N Node Pax River - \$3.765M, Enterprise Targeting and Strike System (eTSS) - \$2.773M</p> <p><b>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b> As outlined in the Assistant Secretary of the Navy for Research, Development, and Acquisition (ASN RDA) Memorandum dated 23 JAN 2004, ASN RDA has directed the programmatic merging of the previously separate Joint Service Imagery Processing System-Navy (JSIPS-N) and Joint Fires Network (JFN) programs. This new, merged program construct is hereafter referred to as the Distributed Common Ground Station-Navy (DCGS-N). Attendant to this merger, the Office of the Secretary of Defense (OSD) directed that all Budget Line Items (BLIs) associated with Program Elements (PEs) 0305208N (JSIPS-N) and 0204228N (JFN) be programmatically merged in FY05, and finally combined under the existing 0305208N PE beginning FY06 throughout the balance of the merged program life cycle. As such, the FY05 through FY06 funding breakouts represent the post merge DCGS-N merged program construct.</p> <p>The Distributed Common Ground System – Navy (DCGS-N) is the Navy's portion of the OSD DCGS effort. DCGS is a cooperative effort between the services, agencies, and DoD to provide systems capable of automating, coordinating, and correlating, in real time, the reception, processing, exploiting, storing and disseminating of multiple source intelligence (MULTI-INT) from airborne and national reconnaissance assets to provide time-critical fire control solutions for advanced weapon systems and sensors and situational awareness to support C2 decision making and planning. DCGS utilizes the entire spectrum of available intelligence data including Measurements Analysis and Signatures Intelligence (MASINT) data, Signals Intelligence (SIGINT) data, Multi-Intelligence Reconnaissance data, and Imagery Intelligence (IMINT). The automation/correlation provided by DCGS-N will provide the Navy an ability to quickly target and re-target precision strike weapons, greatly enhancing their effectiveness and lethality.</p> <p>The DCGS-N Converged Architecture (CA) brings together the proven imagery exploitation capabilities of Joint Services Imagery Processing System – Navy (JSIPS-N) Tactical Input Segment (TIS) and the precision mensuration capability of the Precision Targeting Workstation (PTW) and merges them with the Time Critical Strike/Targeting (TCS/T) capability developed by the Joint Fires Network (JFN) and disseminates this throughout the ashore and afloat nodes through the Joint Concentrator Architecture (JCA). This converged capability provides unparalleled flexibility to the warfighter and rapid response capability against rapidly relocatable, time critical targets. DCGS-N Converged Architecture will become part of the DoD DCGS Network Enterprise via the DCGS Integration Backbone (DIB). Engineering work is funded to migrate legacy JFN/JSIPS systems to this network environment. As DCGS 10.2 is developed by the Air Force, DCGS-N will stay abreast of expanding requirements and ensure compliance with the DoD DCGS network architecture.</p>								

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>	PROGRAM ELEMENT NUMBER AND NAME 0305208N Distributed Common Ground Systems (DCGS)	PROJECT NUMBER AND NAME A2174/9440/9652 CIGSS (DCGS-N)

**B. Accomplishments/Planned Program**

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	4.319	0.000	0.000	0.000
RDT&E Articles Quantity				

Continue JSIPS-N systems engineering including Precision Targeting Workstation (PTW), Precision Guided Munitions (PGM), 'classified' communications, JSIPS-N concentrator Architecture (JCA), and Imagery Exploitation Software Segment (IESS) and accelerate the development of JSIPS-N components of Navy C4I dissemination architectures.

The former JFN and JSIPS-N programs have been merged by direction of ASN (RDA) as of January 2004. OSD directed that the JSIPS and JFN funding lines be consolidated in the PE 0305208N starting FY05. Although the FY05 funding lines are depicted as separate programs, the DCGS-N program has consolidated its goals and taskings and the resulting combined and centrally coordinated effort is reflected in the budget lines and categories beginning in FY05. In FY06, the budget lines will be merged permanently.

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.000	2.646	6.683	6.127
RDT&E Articles Quantity				

DCGS-N Spiral Development

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.000	1.724	1.165	1.322
RDT&E Articles Quantity				

DCGS-N Test and Evaluation

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**B. Accomplishments/Planned Program**

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.000	0.325	0.943	0.978
RDT&E Articles Quantity				

Site Integration

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.000	1.800	3.563	3.308
RDT&E Articles Quantity				

DCGS-N Systems Engineering

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.000	3.765	0.000	0.000
RDT&E Articles Quantity				

DCGS-N Node Pax River

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**B. Accomplishments/Planned Program**

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	4.495	2.773	0.000	0.000
RDT&E Articles Quantity				

Enterprise Targeting and Strike System (eTSS)

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.000	0.000	0.000	0.000
RDT&E Articles Quantity				

	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.000	0.000	0.000	0.000
RDT&E Articles Quantity				

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<p><b>C. PROGRAM CHANGE SUMMARY:</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Funding:</th> <th style="text-align: right; padding: 5px;">FY 04</th> <th style="text-align: right; padding: 5px;">FY 05</th> <th style="text-align: right; padding: 5px;">FY 06</th> <th style="text-align: right; padding: 5px;">FY 07</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Previous President's Budget (PB05):</td> <td style="text-align: right; padding: 5px;">4.421</td> <td style="text-align: right; padding: 5px;">3.635</td> <td style="text-align: right; padding: 5px;">3.694</td> <td style="text-align: right; padding: 5px;">3.762</td> </tr> <tr> <td style="padding: 5px;">Current President's Budget (PB 06):</td> <td style="text-align: right; padding: 5px;">8.814</td> <td style="text-align: right; padding: 5px;">13.033</td> <td style="text-align: right; padding: 5px;">12.354</td> <td style="text-align: right; padding: 5px;">11.735</td> </tr> <tr> <td style="padding: 5px;">Total Adjustments</td> <td style="text-align: right; padding: 5px; border-top: 1px solid black;">4.393</td> <td style="text-align: right; padding: 5px; border-top: 1px solid black;">9.398</td> <td style="text-align: right; padding: 5px; border-top: 1px solid black;">8.660</td> <td style="text-align: right; padding: 5px; border-top: 1px solid black;">7.973</td> </tr> <tr> <td colspan="5" style="padding: 10px 10px 5px 20px;">Summary of Adjustments</td> </tr> <tr> <td style="padding: 5px 10px 5px 20px;">Economic Assumptions</td> <td style="text-align: right; padding: 5px;">-0.038</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px 10px 5px 20px;">Reprogrammings</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px 10px 5px 20px;">Other</td> <td style="text-align: right; padding: 5px;">-0.069</td> <td style="text-align: right; padding: 5px;">-0.200</td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px 10px 5px 20px;">PBD Adjustments</td> <td></td> <td style="text-align: right; padding: 5px;">-0.002</td> <td style="text-align: right; padding: 5px;">0.095</td> <td style="text-align: right; padding: 5px;">0.190</td> </tr> <tr> <td style="padding: 5px 10px 5px 20px;">Realign JFN/JSIPS-N</td> <td></td> <td style="text-align: right; padding: 5px;">3.000</td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px 10px 5px 20px;">Congressional Adds</td> <td style="text-align: right; padding: 5px;">4.500</td> <td style="text-align: right; padding: 5px;">6.600</td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px 10px 5px 20px;">Technical correction</td> <td></td> <td></td> <td style="text-align: right; padding: 5px;">8.565</td> <td style="text-align: right; padding: 5px;">7.783</td> </tr> <tr> <td style="padding: 5px 10px 5px 20px;">Subtotal</td> <td style="text-align: right; padding: 5px; border-top: 1px solid black;">4.393</td> <td style="text-align: right; padding: 5px; border-top: 1px solid black;">9.398</td> <td style="text-align: right; padding: 5px; border-top: 1px solid black;">8.660</td> <td style="text-align: right; padding: 5px; border-top: 1px solid black;">7.973</td> </tr> </tbody> </table> <p style="margin-top: 20px;">Schedule: Not applicable.</p> <p style="margin-top: 20px;">Technical: Not Applicable.</p>					Funding:	FY 04	FY 05	FY 06	FY 07	Previous President's Budget (PB05):	4.421	3.635	3.694	3.762	Current President's Budget (PB 06):	8.814	13.033	12.354	11.735	Total Adjustments	4.393	9.398	8.660	7.973	Summary of Adjustments					Economic Assumptions	-0.038				Reprogrammings					Other	-0.069	-0.200			PBD Adjustments		-0.002	0.095	0.190	Realign JFN/JSIPS-N		3.000			Congressional Adds	4.500	6.600			Technical correction			8.565	7.783	Subtotal	4.393	9.398	8.660	7.973
Funding:	FY 04	FY 05	FY 06	FY 07																																																																	
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R-1 SHOPPING LIST - Item No. 205

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EXHIBIT R-2a, RDT&E Project Justification								DATE: <b>February 2005</b>		
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>			PROGRAM ELEMENT NUMBER AND NAME 0305208N Distributed Common Ground Systems (DCG				PROJECT NUMBER AND NAME A2174/9440/9652 CIGSS (DCGS-N)			
<b>D. OTHER PROGRAM FUNDING SUMMARY:</b>										
<u>Line Item No. &amp; Name</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>To Complete</u>	<u>Total Cost</u>
OPN, BLI 291400 Common Imagery Ground Support/Systems (CIGSS)	40.230	49.630	20.422	93.771	103.491	84.905	86.796	88.775	Continuing	Continuing
OPN, BLI 511200 Naval Fires Control System	23.997	0.998							0.000	24.995
<b>E. ACQUISITION STRATEGY:</b>										
<p>The production DCGS-N Converged Architecture (DCA) system consists of four legacy transitional elements including the Joint Fires Network (JFN), Precision Targeting Workstation (PTW), Joint Concentrator Architecture (JCA)/National Input Segment (NIS), and Tactical Input Segment (TIS) application. The JFN is already in production and is an integrated DCA segment. The JCA/NIS is also in full rate production and is supplied as Government Furnished Equipment (GFE) by the National Geo-spatial Agency (NGA). The TIS application is acquired from the Air Force Electronic Systems Center (ESC) at Hanscom AFB. The TIS includes a Common Imagery Processor (CIP) that is supplied as GFE to the integrating contractor and is an integrated component element within the DCA. The DCA system integrator is NGC, and NGC and Space and Naval Warfare Systems Command for the merged legacy JFN and JSIPS-N segment elements.</p>										
<b>F. MAJOR PERFORMERS:</b>										

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Exhibit R-3 Cost Analysis (page 1)											DATE: <b>February 2005</b>			
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT			PROJECT NUMBER AND NAME									
<b>RDT&amp;E, N / BA-7</b>		0305208N/Distributed Common Ground Systems			2174/9440/9652 CIGSS									
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	MIPR	Various	0.000			3.765	03/05						3.765	
Ancillary Hardware Development														
Component Development														
Ship Integration	MIPR	Various	0.000			0.325	11/04	0.943	11/05	0.978	11/06	Continuing	Continuing	
Ship Suitability														
Systems Engineering	MIPR	Various	0.000			1.800	11/04	3.563	11/05	3.308	11/06	Continuing	Continuing	
Training Development														
Licenses														
Tooling														
GFE														
Award Fees														
Subtotal Product Development			0.000	0.000		5.890		4.506		4.286		Continuing	Continuing	
Remarks:														
Development Support														
Software Development	MIPR	Various	14.022	8.814	11/03	5.419	11/04	6.683	11/05	6.127	11/06	Continuing	Continuing	
Software Development (SAIP)														
Training Development														
Integrated Logistics Support														
Configuration Management														
Technical Data														
GFE														
Award Fees														
Subtotal Support			14.022	8.814		5.419		6.683		6.127		Continuing	Continuing	
Remarks: The former JFN and JSIPS-N programs have been merged by direction of ASN (RDA) as of January 2004. OSD directed that the JSIPS and JFN funding lines be consolidated in the NAVAIR PE 0305208N starting FY05. Although the FY05 funding lines are depicted as separate programs, the DCGS-N program has consolidated its goals and taskings and the resulting combined and centrally coordinated effort is reflected in the budget lines and categories beginning in FY05.														

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Exhibit R-3 Cost Analysis (page 2)										DATE: <b>February 2005</b>				
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>		PROGRAM ELEMENT 0305208N/Distributed Common Ground Systems			PROJECT NUMBER AND NAME 2174/9440/9652 CIGSS									
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	MIPR	Various	0.375	0.000		1.724	11/04	1.165	11/05	1.322	11/06	Continuing	Continuing	
Operational Test & Evaluation														
Live Fire Test & Evaluation														
Test Assets														
Tooling														
GFE														
Award Fees														
Subtotal T&E			0.375	0.000		1.724		1.165		1.322		Continuing	Continuing	
Remarks:														
Contractor Engineering Support														
Government Engineering Support														
Program Management Support														
Travel														
Labor (Research Personnel)														
SBIR Assessment														
Subtotal Management			0.000	0.000		0.000		0.000		0.000		0.000	0.000	
Remarks:														
Total Cost			14.397	8.814		13.033		12.354		11.735		0.000	60.333	
Remarks: The former JFN and JSIPS-N programs have been merged by direction of ASN (RDA) as of January 2004. OSD directed that the JSIPS and JFN funding lines be consolidated in the NAVAIR PE 0305208N starting FY05. Although the FY05 funding lines are depicted as separate programs, the DCGS-N program has consolidated its goals and taskings and the resulting combined and centrally coordinated effort is reflected in the budget lines and categories beginning in FY05.														

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EXHIBIT R4, Schedule Profile																DATE: <b>February 2005</b>																	
APPROPRIATION/BUDGET ACTIVITY <b>RDTE&amp;E, N / BA-7</b>								PROGRAM ELEMENT NUMBER AND NAME 0305208N Distributed Common Ground Systems (DCGS)								PROJECT NUMBER AND NAME A2174/9440/9652 CIGSS (DCGS-N)																	
<b>FY04</b>				<b>FY05</b>				<b>FY06</b>				<b>FY07</b>				<b>FY08</b>				<b>FY09</b>				<b>FY10</b>				<b>FY11</b>					
1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q		
<b>Distributed Common Ground System - Navy (DCGS-N)</b>																																	
Testing		OPEVAL for JSIPS-N 4.0.2								DCGS-N 1.0 Testing				DCGS-N 1.1 Testing				DCGS-N 1.1 OPEVAL				DCGS-N 2.0 Testing				DCGS-N 3.0 Testing							
Spiral Development (Migration to DCGS-N)		DIB Study				DIB Integration & Test				DCGS-N 1.1				DCGS-N 2.0				DCGS-N 3.0				DCGS-N Follow on Spirals											
Procurement Profile *Installation schedule subject to Fleet Validation of Rqmts/Needs		DCGS-N CDD				DIB Delivery				Sustain Legacy Systems/Phase Out				FRP Decision				DCGS-N 1.1 IOC															
SAIP Program																																	
		2 System Purchase (CVN/LHA/LHD/Shore)				0 System Purchase (CVN/LHA/LHD/Shore)				10 System Purchase (CVN/LHA/LHD/Shore)				12 System Purchase (CVN/LHD/LHA/Shore)				8 System Purchase (CVN/LHD/LHA/Shore)				2 System Purchase/Recurring Product Improvement				Recurring Product Improvement							

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\* Not required for Budget Activities 1, 2, 3, and 6

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Schedule Profile		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Testing									
	JSIPS 4.0.2 OPEVAL	3Q							
	DCGS-N 1.0 Testing			1Q-2Q					
	DCGS-N 1.1 Testing			3Q-4Q	1Q				
	DCGS-N 1.1 OPEVAL				1Q				
	DCGS-N 2.0 Testing					2Q-4Q			
	DCGS-N 3.0 Testing							1Q-3Q	
Spiral development (Migration to Converged Architecture)									
	DIB Study	2Q-4Q							
	DIB Integration and Test	4Q	1Q-4Q						
	DCGS-N 1.X Development	3Q-4Q	1Q-2Q						
	DCGS-N 1.0 Development		2Q-4Q	1Q-2Q					
	DCGS-N 1.1 Development			2Q-3Q					
	DCGS-N 2.0 Development			1Q-4Q	1Q-4Q	1Q			
	DCGS-N 3.0 Development				4Q	1Q-4Q	1Q-4Q		
	DCGS-N Follow on Spiral Development						4Q	1Q-4Q	1Q-4Q
Acquisition Program									
	CDD	1Q-3Q							
	Sustain/Phase Out Legacy Equipment	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	
	DCGS-N Procurement		3Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	
	DIB Delivery		4Q						
	FRP Decision				2Q				
	DCGS-N 1.1 IOC				3Q				
	Recurring Product Improvement/P3I							1Q-4Q	1Q-4Q
SAIP Program									
	SAIP	1Q-4Q							

R-1 SHOPPING LIST - Item No. 205

# UNCLASSIFIED

**Exhibit R-4a, Schedule Detail**  
(Exhibit R-4a, page 11 of 11)