

# UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification										DATE: <b>February 2002</b>	
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)	Prior Years Cost		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Total PE Cost			4.419	7.127	7.482	4.532	3.733	3.797	3.864	Continuing	Continuing
A2174 CIGSS (JSIPS-N)			4.419	4.352	4.482	4.532	3.733	3.797	3.864	Continuing	Continuing
A9118 Prec Targeting Sys Modernization*			0.000	2.775	0.000	0.000	0.000	0.000	0.000	2.775	2.775
<b>Non-Add:</b> Cost of War: JSIPS-N					3.000						
Quantity of RDT&E Articles	<b>Not applicable</b>										
<p>* \$2.800 million was added by Congress in FY 2002 for Precision Targeting System Modernization and Enhancements.</p> <p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The Joint Service Imagery Processing System – Navy (JSIPS-N) is the Navy's portion of the Distributed Common Ground System (DCGS) which is a cooperative effort between the services, agencies, and DoD to provide systems capable of receiving, processing, exploiting, and disseminating data from airborne and national reconnaissance platforms. DCGS is further subdivided into systems which process, exploit, and disseminate Measurements Analysis and Signatures Intelligence (MASINT) data, Signals Intelligence (SIGINT) data, Multi-Intelligence Reconnaissance data, and Imagery data. Cooperative imagery processing systems are collectively identified under the general heading of Common Imagery Ground/Surface Systems (CIGSS). JSIPS-N is the Navy CIGSS component.</p> <p>JSIPS-N has the capability to receive, process, exploit, store and disseminate imagery, imagery-derived products and imagery intelligence (IMINT) reports based on multiple inputs from multiple sources. The primary mission of JSIPS-N is to assist strike planners, tactical aviators, and Marine Corps amphibious planners in the delivery of precision ordnance (including Tomahawk Cruise Missiles) on target.</p> <p>JSIPS-N includes three major components, the Softcopy Exploitation Segment (SES) consisting of the Digital Imagery Workstation Suite Afloat (DIWSA) and the Precision Targeting Workstation (PTW), the National Input Segment (NIS), and the Tactical Input Segment (TIS). JSIPS-N is being installed onboard aircraft carriers (CV/CVN), amphibious assault ships (LHA/LHD), select fleet flagships (AGF/LCC) and shore sites.</p> <p>Secondary missions of the system are to provide near-real-time imagery and support to fleet intelligence assets, Special Operations Forces, and to support primary exploitation and dissemination of tactical organic and theater IMINT products.</p> <p>(U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under Operational Systems Development because it encompasses engineering and manufacturing development for upgrade of existing operational systems.</p> <p><b>Non-Add:</b> Cost of War \$3.0 million added to JSIPS-N to accelerate development of JSIPS-N components of Navy C4I dissemination architectures.</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 CIGSS (JSIPS-N)					
COST (\$ in Millions)	Prior Years Cost		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
A2174 CIGSS (JSIPS-N)			4.419	4.352	4.482	4.532	3.733	3.797	3.864	Continuing	Continuing
<b>Non-Add:</b> Cost of War: JSIPS-N					3.000						
RDT&E Articles Qty											
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The Joint Service Imagery Processing System – Navy (JSIPS-N) is the Navy’s portion of the Distributed Common Ground System (DCGS) which is a cooperative effort between the services, agencies, and DoD to provide systems capable of receiving, processing, exploiting, and disseminating data from airborne and national reconnaissance platforms. DCGS is further subdivided into systems which process, exploit, and disseminate Measurements Analysis and Signatures Intelligence (MASINT) data, Signals Intelligence (SIGINT) data, Multi-Intelligence Reconnaissance data, and Imagery data. Cooperative imagery processing systems are collectively identified under the general heading of Common Imagery Ground/ Surface Systems (CIGSS). JSIPS-N is the Navy CIGSS component.</p> <p>JSIPS-N has the capability to receive, process, exploit, store and disseminate imagery, imagery-derived products and imagery intelligence (IMINT) reports based on multiple inputs from multiple sources. The primary mission of JSIPS-N is to assist strike planners, tactical aviators, and Marine Corps amphibious planners in the delivery of precision ordnance (including Tomahawk Cruise Missiles) on target.</p> <p>JSIPS-N includes three major components, the Softcopy Exploitation Segment (SES) consisting of the Digital Imagery Workstation Suite Afloat (DIWSA) and the Precision Targeting Workstation (PTW), the National Input Segment (NIS), and the Tactical Input Segment (TIS). JSIPS-N is being installed onboard aircraft carriers (CV/CVN), amphibious assault ships (LHA/LHD), select fleet flagships (AGF/LCC) and shore sites.</p> <p>Secondary missions of the system are to provide near-real-time imagery and support to fleet intelligence assets, Special Operations Forces, and to support primary exploitation and dissemination of tactical organic and theater IMINT products.</p> <p><b>Non-Add:</b> Cost of War \$3.0 million added to JSIPS-N to accelerate development of JSIPS-N components of Navy C4I dissemination architectures.</p>											

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EXHIBIT R-2a, RDT&E Project Justification		DATE:
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
<b>RDT&amp;E, N / BA-7</b>	0305208N Distributed Common Ground Systems (DCGS)	A2174 CIGSS (JSIPS-N)
<p>(U) PROGRAM ACCOMPLISHMENTS AND PLANS:</p> <p>1. FY 2001 ACCOMPLISHMENTS:</p> <ul style="list-style-type: none"><li>(U) (\$3.758) Continued JSIPS-N systems engineering including Precision Targeting Workstation (PTW), Precision Guided Munitions (PGMs), 'classified' communications architecture, JSIPS-N Concentrator Architecture (JCA), and Imagery Exploitation Software Segment (IESS).</li><li>(U) (\$0.561) Continued Shared Reconnaissance Pod (SHARP)-Tactical Input Segment (TIS) systems engineering and integration including the incorporation of appropriate Navy Input Segment (NAVIS) functions.</li><li>(U) (\$0.100) Continued Test and Evaluation (T&amp;E) of ongoing system upgrades and modifications.</li></ul> <p>2. FY 2002 PLANS:</p> <ul style="list-style-type: none"><li>(U) (\$3.689) Continue JSIPS-N systems engineering including PTW, PGM, 'classified' communications, JCA, and IEES.</li><li>(U) (\$0.563) Continue SHARP-TIS systems engineering and integration including the incorporation of appropriate NAVIS functions.</li><li>(U) (\$0.100) Continue T&amp;E of ongoing system upgrades and modifications.</li></ul> <p>3. FY 2003 PLANS:</p> <ul style="list-style-type: none"><li>(U) (\$3.843) Continue JSIPS-N systems engineering including PTW, PGM, 'classified' communications, JCA, and IEES.</li><li>(U) (\$0.539) Continue SHARP-TIS systems engineering and integration including the incorporation of appropriate NAVIS functions.</li><li>(U) (\$0.100) Continue T&amp;E of ongoing system upgrades and modifications.</li></ul>		

R-1 SHOPPING LIST - Item No. 211

**UNCLASSIFIED**

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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 CIGSS (JSIPS-N)																															
<p>(U) B. PROGRAM CHANGE SUMMARY:</p> <table style="margin-left: 40px; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>FY2001</u></th> <th style="text-align: center;"><u>FY2002</u></th> <th style="text-align: center;"><u>FY2003</u></th> </tr> </thead> <tbody> <tr> <td>(U) FY 2002 President's Budget:</td> <td style="text-align: center;">4.434</td> <td style="text-align: center;">4.467</td> <td></td> </tr> <tr> <td>(U) Adjustments from FY2002 President's Budget:</td> <td style="text-align: center;">(0.015)</td> <td style="text-align: center;">(0.115)</td> <td></td> </tr> <tr> <td>(U) FY 2003 President's Budget Submission:</td> <td style="text-align: center;">4.419</td> <td style="text-align: center;">4.352</td> <td style="text-align: center;">4.482</td> </tr> </tbody> </table> <p>CHANGE SUMMARY EXPLANATION:</p> <p>(U) Funding: The FY 2001 decrease of \$0.015 million for undistributed Congressional reductions. The FY 2002 decrease of \$.115 million reflects \$.039 million reduction for an undistributed Congressional reduction and a \$.076 million reduction for Federally Funded Research and Development Centers.</p> <p>(U) Schedule: Not Applicable. (U) Technical: Not Applicable</p> <p>OTHER PROGRAM FUNDING SUMMARY:</p> <table style="margin-left: 40px; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>FY02</u></th> <th style="text-align: center;"><u>FY03</u></th> <th style="text-align: center;"><u>FY04</u></th> <th style="text-align: center;"><u>FY05</u></th> <th style="text-align: center;"><u>FY06</u></th> <th style="text-align: center;"><u>FY07</u></th> </tr> </thead> <tbody> <tr> <td>OPN Common Imagery Ground Surface Systems</td> <td style="text-align: center;">57.3</td> <td style="text-align: center;">52.4</td> <td style="text-align: center;">50.5</td> <td style="text-align: center;">34.4</td> <td style="text-align: center;">59.5</td> <td style="text-align: center;">61.0</td> </tr> </tbody> </table>					<u>FY2001</u>	<u>FY2002</u>	<u>FY2003</u>	(U) FY 2002 President's Budget:	4.434	4.467		(U) Adjustments from FY2002 President's Budget:	(0.015)	(0.115)		(U) FY 2003 President's Budget Submission:	4.419	4.352	4.482		<u>FY02</u>	<u>FY03</u>	<u>FY04</u>	<u>FY05</u>	<u>FY06</u>	<u>FY07</u>	OPN Common Imagery Ground Surface Systems	57.3	52.4	50.5	34.4	59.5	61.0
	<u>FY2001</u>	<u>FY2002</u>	<u>FY2003</u>																														
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OPN Common Imagery Ground Surface Systems	57.3	52.4	50.5	34.4	59.5	61.0																											

R-1 SHOPPING LIST - Item No. 211

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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 CIGSS (JSIPS-N)

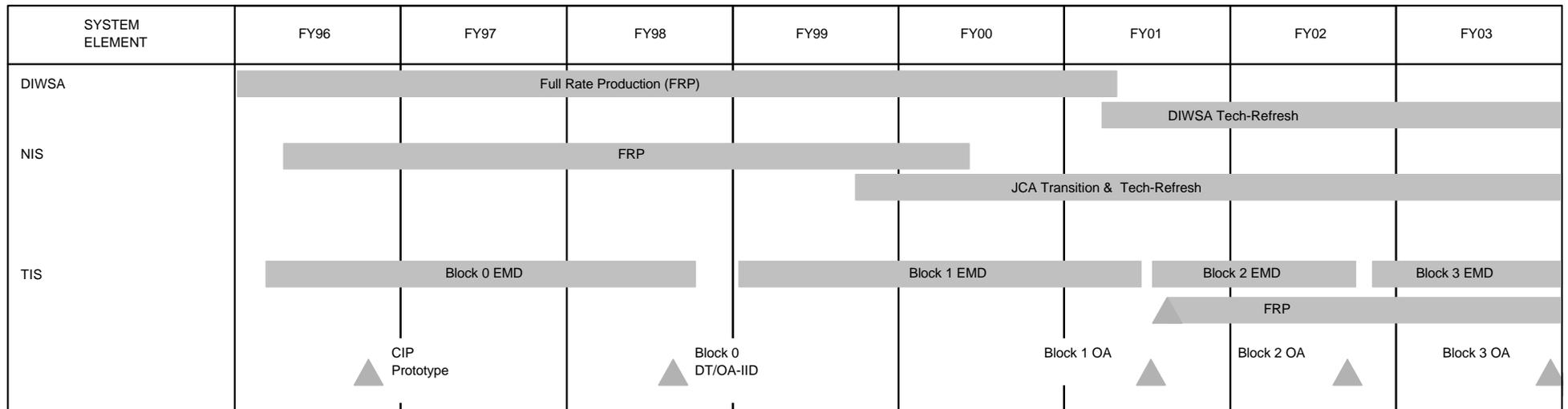
(U) C. OTHER PROGRAM FUNDING SUMMARY:

<u>Line Item No. &amp; Name</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>To Complete</u>	<u>Total Cost</u>
OPN, BLI 291400 Common Imagery Ground/Surface System (CIGSS)	45.990	57.627	52.432	50.535	34.429	59.474	61.042	Continuing	Continuing

Related RDT&E,N: Not Applicable

(U) D. ACQUISITION STRATEGY: The production system consists of three elements, the Softcopy Exploitation System (SES) consisting of the Digital Imagery Workstation Suite Afloat (DIWSA) and the Precision Targeting Workstation (PTW), the National Input Segment (NIS) and Tactical Input Segment (TIS). The DIWSA is already in full rate co-production with other programs, most notably Tomahawk's mission planning systems. The NIS is also in full rate production and supplied as Government Furnished Equipment (GFE) by the National Imagery and Mapping Agency (NIMA SDD). The TIS 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. The system integrator for the Navy system is the Space and Naval Warfare Systems Command.

(U) E. SCHEDULE PROFILE:



R-1 SHOPPING LIST - Item No. 211

## UNCLASSIFIED

**Exhibit R-2a, RDTEN Project Justification**  
(Exhibit R-2a, page 5 of 12)

**UNCLASSIFIED**

**CLASSIFICATION:**

Exhibit R-3 Cost Analysis (page 1)										DATE: <b>February 2002</b>		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
<b>RDT&amp;E, N / BA-7</b>			0305208N Dist. Common Ground Systems (DCGS)			A2174 CIGSS (JSIPS-N)						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Systems Engineering	MIPR	NAWC WD-CL, CA	0.800	0.800	02/01	0.816	02/02	0.829	02/03	Continuing	Continuing	
Systems Engineering	MIPR	NRL, Wash DC	0.254	0.194	05/01						0.448	0.448
Systems Engineering	MIPR	Mitre, VA	1.500	1.000	03/01	1.000	03/02	1.009	03/03	Continuing	Continuing	
Systems Engineering	MIPR	NRO, Wash DC	3.491	1.158	03/01	1.263	03/02	1.389	03/03	Continuing	Continuing	
Systems Engineering	MIPR	OSO, Wash DC	1.750	0.800	05/01	0.800	05/02	0.806	05/03	Continuing	Continuing	
Systems Engineering	MIPR	Rome Labs, NY	1.080								1.080	1.080
Systems Engineering	MIPR	Hanscom ESC, NY	1.082	0.367	03/01	0.373	03/02	0.349	03/03	Continuing	Continuing	
Subtotal Product Development			9.957	4.319		4.252		4.382		Continuing	Continuing	
Remarks:												
											#VALUE!	2.775
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks: \$2.775M is a Congressional add for DIWS acceleration executed under Project A9118												

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Exhibit R-3 Cost Analysis (page 2)										DATE: <b>February 2002</b>		
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>			PROGRAM ELEMENT 0305208N Dist. Common Ground Systems (DCGS)				PROJECT NUMBER AND NAME A2174 CIGSS (JSIPS-N)					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WX	COMOPTEVFOR, VA	0.175	0.100	06/01	0.100	06/02	0.100	06/03	Continuing	Continuing	
Subtotal T&E			0.175	0.100		0.100		0.100		Continuing	Continuing	
Remarks:												
Subtotal Management												
Remarks:												
Total Cost			10.132	4.419		4.352		4.482		Continuing	Continuing	
Remarks:												

R-1 SHOPPING LIST - Item No. 211

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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 A9118 Precision Targeting System Modernization					
COST (\$ in Millions)	Prior Years Cost	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program	
A9118 Precision Targeting System Modernization	<b>0.000</b>	<b>0.000</b>	<b>2.775</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>2.775</b>	
RDT&E Articles Qty											
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>(U) The Precision Targeting Workstation (PTW) and Digital Imagery Workstation Suite Afloat (DIWSA) make up the Softcopy Exploitation Segment (SES) of JSIPS-N which are used for precision mensuration and exploitation. SES is one of the three major components of JSIPS-N. The other two are the National Input Segment (NIS), used for receipt of national imagery and dissemination of secondary imagery products, and the Tactical input Segment (TIS) used with the Common Imagery Processor (CIP) for receipt and processing of tactical/theater imagery.</p> <p>(U) DIWSA is also utilized by the Afloat Planning Systems (APS), the afloat version of the Tomahawk Theater Mission Planning Center (TMPC). The purpose of APS DIWS is to generate Tomahawk Land Attack Mission (TLAM) specific formatted terminal area navigation products from imagery and support data. DIWS is also used afloat for Precision Guided Munition (PGM) coordinates in support of JSIPS-N.</p> <p>(U) The FY02 funding of \$2.775M is a Congressional add to be utilized to accelerate the transition of DIWSA from the current TAC-4 type systems to PC-based configuration. DIWS functionality will be migrated to PTW in order to merge the capabilities to a common hardware baseline. The PC migration effort started in FY01 under the Tomahawk program with a fielding of June 2005. This funding will accelerate the Fleet release to June 2003.</p>											

R-1 SHOPPING LIST - Item No. 211

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<p>(U) PROGRAM ACCOMPLISHMENTS AND PLANS:</p> <ol style="list-style-type: none"><li>1. FY 2001 ACCOMPLISHMENTS: Not applicable.</li><li>2. FY 2002 PLANS: (U) (\$2.775) Transistion DIWS to PC-Based configuration.</li><li>3. FY 2003 PLANS: Not applicable.</li></ol>		

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**Exhibit R-2a, RDTEN Project Justification**  
(Exhibit R-2a, page 9 of 12)

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	<u>FY 2002</u>	-	<u>FY 2003</u>	-	<u>FY 2004</u>	<u>FY 2006</u>	<u>FY 2007</u>																																																																																								
(U) Program Milestones			PTW 4.1.1		Fleet Release																																																																																										
(U) Engineering Milestones																																																																																															
(U) T&E Milestones																																																																																															
(U) Contract Milestones	PTW/DIWS contract award																																																																																														

R-1 SHOPPING LIST - Item No. 211

# UNCLASSIFIED

**UNCLASSIFIED**

**CLASSIFICATION:**

Exhibit R-3 Cost Analysis (page 1)										DATE: <b>February 2002</b>		
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>				PROGRAM ELEMENT 0305208N Dist. Common Ground Systems (DCGS)				PROJECT NUMBER AND NAME A9118 Precision Targeting System Modernization				
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	C/CPFF	BAE Systems, San Diego, CA				2.775	03/02			0.000	2.775	2.775
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
Subtotal Product Development			0.000	0.000		2.775		0.000		Continuing	Continuing	
Remarks:												
												2.775
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	
Remarks: \$2.775M is a Congressional add for DIWS acceleration executed under Project A9118												

R-1 SHOPPING LIST - Item No. 211

**UNCLASSIFIED**

# UNCLASSIFIED

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)										DATE: <b>February 2002</b>		
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>			PROGRAM ELEMENT 0305208N Dist. Common Ground Systems (DCGS)			PROJECT NUMBER AND NAME A9118 Precision Targeting System Modernization						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
											0.000	
Subtotal T&E			0.000	0.000		0.000		0.000			0.000	
Remarks:												
											0.000	
Subtotal Management			0.000	0.000		0.000		0.000			0.000	
Remarks:												
Total Cost			0.000	0.000		2.775		0.000			2.775	
Remarks:												

R-1 SHOPPING LIST - Item No. 211

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