

UNCLASSIFIED

EXHIBIT R-2, FY 2001 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET

DATE: FEBRUARY 2000

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0305208N

PROGRAM ELEMENT TITLE: DISTRIBUTED COMMON GROUND SYSTEMS (DCGS)

(U) COST: (Dollars in Thousands)

<u>Project Number & Title</u>	<u>FY 1999 Actual</u>	<u>FY 2000 Budget</u>	<u>FY 2001 Estimate</u>	<u>FY 2002 Estimate</u>	<u>FY 2003 Estimate</u>	<u>FY 2004 Estimate</u>	<u>FY 2005 Estimate</u>	<u>To Complete</u>	<u>Total Program</u>
A2174 CIGSS (JSIPS-N)	\$4,933*	\$5,552	\$4,482	\$4,478	\$4,530	\$4,575	\$4,529	Continuing	Continuing
TOTAL	\$4,933*	\$5,552	\$4,482	\$4,478	\$4,530	\$4,575	\$4,529	Continuing	Continuing

* FY 1999 budget reflects a Congressional Add of \$4,966 for Common Imagery Ground/Surface Systems executed under project unit A2677, revised by \$11k for revised economic assumptions and \$22k for Congressional reductions.

(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 collected under the general heading Common Imagery Ground/Surface Systems (CIGSS). JSIPS-N is the Navy CIGSS component.

JSIPS-N has the capability to receive, process, exploit, store and disseminate imagery, imagery-derived products and imagery intelligence (IMINT) reports based on multi-source from multiple inputs. 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.

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.

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.

(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

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EXHIBIT R-2a, FY 2001 RDT&E,N BUDGET PROJECT JUSTIFICATION SHEET

DATE: FEBRUARY 2000

BUDGET ACTIVITY: 7 PROGRAM ELEMENT: 0305208N PROJECT NUMBER: A2174
PROGRAM ELEMENT TITLE: DISTRIBUTED COMMON GROUND PROJECT TITLE: JOINT SERVICE IMAGERY
SYSTEMS (DCGS) PROCESSING SYSTEMS

(U) COST: (Dollars in Thousands)

<u>Project Number & Title</u>	<u>FY 1999 Actual</u>	<u>FY 2000 Budget</u>	<u>FY 2001 Estimate</u>	<u>FY 2002 Estimate</u>	<u>FY 2003 Estimate</u>	<u>FY 2004 Estimate</u>	<u>FY 2005 Estimate</u>	<u>To Complete</u>	<u>Total Program</u>
A2174 CIGSS (JSIPS-N)	\$4,933*	\$5,552	\$4,482	\$4,478	\$4,530	\$4,575	\$4,529	Continuing	Continuing
TOTAL	\$4,933*	\$5,552	\$4,482	\$4,478	\$4,530	\$4,575	\$4,529	Continuing	Continuing

* FY 1999 budget reflects a Congressional Add of \$4,966 for Common Imagery Ground/Surface Systems executed under project unit A2677, revised by \$11k for revised economic assumptions and \$22 for Congressional reductions.

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Joint Services 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 collected under the general heading Common Imagery Ground/Surface Systems (CIGSS). JSIPS-N is the Navy CIGSS component.

JSIPS-N has the capability to receive, process, exploit, store and disseminate imagery, imagery-derived products and imagery intelligence (IMINT) reports based on multi-source from multiple inputs. 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.

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 flag ships (AGF/LCC) and shore sites.

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.

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BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0305208N

PROJECT NUMBER: A2174

**PROGRAM ELEMENT TITLE: DISTRIBUTED COMMON GROUND
SYSTEMS (DCGS)**

**PROJECT TITLE: JOINT SERVICE
IMAGERY ROCESSING
SYSTEMS**

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. FY 1999 ACCOMPLISHMENTS:

- (U) (\$4,358) Continued JSIPS-N System Engineering including Precision Targeting Workstation, Classified Communications, JSIPS-N Concentrator Architecture and Imagery Exploitation Software Segment.
- (U) (\$500) Performed Collaborative Contingency Targeting and Precision Guided Missile/Support Activity efforts.
- (U) (\$75) Continued Test and Evaluation Support.

2. FY 2000 PLAN:

- (U) (\$3,769) Continue JSIPS-N System Engineering including Precision Targeting Workstation, Classified Communications, JSIPS-N Concentrator Architecture and Imagery Exploitation Software Segment.
- (U) (\$919) Continue Share Reconnaissance Pod (SHARP)/Tactical Input Segment (TIS) Systems Engineering and Integration.
- (U) (\$764) Perform Collaborative Contingency Targeting and Precision Guided Missile/Support Activity efforts.
- (U) (\$100) Continue Test and Evaluation Support.

3. FY 2001 PLAN:

- (U) (\$4,132) Continue JSIPS-N System Engineering including Precision Targeting Workstation, Classified Communications, JSIPS-N Concentrator Architecture and Imagery Exploitation Software Segment.
- (U) (\$250) Perform Collaborative Contingency Targeting and Precision Guided Missile/Support Activity efforts.
- (U) (\$100) Continue Test and Evaluation Support.

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SYSTEMS (DCGS)

PROJECT NUMBER: A2174
PROJECT TITLE: JOINT SERVICE
IMAGERY

PROCESSING

SYSTEMS

(U) B. PROGRAM CHANGE SUMMARY

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
(U) FY 2000 President's Budget:	\$4,955	\$5,583	\$6,042
(U) Appropriated Value:	\$4,966	\$5,583	0
(U) Adjustments from President's Budget:	-\$22	-\$31	-\$1,560
(U) FY2001 President's Budget Submit	\$4,933	\$5,552	\$4,482

CHANGE SUMMARY EXPLANATION:

(U) Funding: The FY 1999 reflects a \$22 thousand decrease for revised economic assumptions. The FY 2000 reflects a \$31 thousand decrease for an Across-the-Board Congressional recision. FY 2001 reflects a \$1,476 thousand decrease associated with realigning funding to the Marine Corps JSIPS Tactical Exploitation Group program to more accurately reflect program intent, \$42 thousand decrease associated with minor program reductions, and a \$43 thousand decrease for revised economic assumptions.

(U) Schedule: Not applicable.

(U) Technical: Not applicable.

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BUDGET ACTIVITY: 7

PROGRAM ELEMENT:

0305208N

PROJECT NUMBER: A2174

PROGRAM ELEMENT TITLE: DISTRIBUTED COMMON GROUND

PROJECT TITLE: JOINT SERVICE

IMAGERY

SYSTEMS (DCGS)

SYSTEMS

(U) C. OTHER PROGRAM FUNDING SUMMARY (Dollars in Thousands)

	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To	Total
<u>Appn</u>	<u>Actual</u>	<u>Budget</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	<u>Program</u>
OPN	\$65,228	\$41,025	\$47,022	\$45,791	\$44,564	\$72,593	\$73,617	Continuing	Continuing

Related RDT&E

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.

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PROJECT NUMBER: A2174
 PROJECT TITLE: JOINT SERVICE IMAGERY PROCESSING SYSTEMS

E. SCHEDULE PROFILE

SYSTEM ELEMENT	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY03
DIWSA	Full Rate Production					DIWSA Refresh		
NIS	Full Rate Production				JCA Transition & PTW Refresh			
TIS	EMD Phase							FRP
		▲ CIP Prototype				▲ LRIP		▲ FRP
			▲ DT-IID				■ IOC	
• DT&E							▲ TECHEVAL	
• OT&E					▲ OA		▲ OPEVAL	
					Organic Support Capability			▲

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EXHIBIT R-3, FY 2001 RDT&E,N COST ANALYSIS

DATE: FEBRUARY 2000

BUDGET ACTIVITY: 7 PROGRAM ELEMENT: 0305208N PROJECT NUMBER: A2174
PROGRAM ELEMENT TITLE: DISTRIBUTED COMMON GROUND PROJECT TITLE: JOINT SERVICE IMAGERY
SYSTEMS (DCGS) PROCESSING SYSTEMS

<u>Cost Categories:</u>	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior Yrs Cost</u>	<u>FY 1999 Cost</u>	<u>FY 1999 Award Date</u>	<u>FY 2000 Cost</u>	<u>FY 2000 Award Date</u>	<u>FY 2001 Cost</u>	<u>FY 2001 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
Primary Hardware Development			<i>See Note below</i>									
Hardware Development						0						
Systems Engineering	MIPR	NAWC, China Lake, CA		0		550	2/00	760	2/01	CONT	CONT	
	Economy Act	NRL, Washington DC		0		475	5/00	904	5/01	CONT	CONT	
	SS/CPFF	Mitre, Vienna VA		700	2/99	800	2/00	800	3/01	CONT	CONT	
	MIPR	NRO, Wash, DC		2,328	3/99	2,827	3/00	1,118	3/01	CONT	CONT	
	MIPR	OSO, Wash, DC		750	5/99	800	5/00	800	5/01	CONT	CONT	
	MIPR	Rome Lab, NY		1,080	6/99	0		0		0	1,080	
Subtotal Project Development				\$4,858		\$5,452		\$4,382				

Note: FY 1998 budget for this item was submitted as part of the RDT&E Defense-Wide Program, Distributed Common Ground Systems (DCGS), PE 0305208D8Z. OSD Program Decision Memorandum, of 18 August 1998, transferred FY00-05 funding for this program to the services.

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EXHIBIT R-3, FY 2001 RDT&E,N COST ANALYSIS

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<u>Cost Categories:</u>	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior Yrs Cost</u>	<u>FY 1999 Cost</u>	<u>FY 1999 Award Date</u>	<u>FY 2000 Cost</u>	<u>FY 2000 Award Date</u>	<u>FY2001 Cost</u>	<u>FY 2001 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
Developmental Test & Evaluation Test and Evaluation	WX	COMOPTEVFOR, Norfolk, VA		75	6/99	100	6/00	100	6/01	CONT	CONT	
Subtotal Test & Evaluation				75		100		100				
Subtotal Management												
Remarks: None.												
Total Cost			See Note Below	\$4,933		\$5,552		\$4,482		CONT	CONT	

Note: FY 1998 budget for this item was submitted as part of the RDT&E Defense-Wide Program, Distributed Common Ground Systems (DCGS), PE 0305208D8Z. OSD Program Decision Memorandum, of 18 August 1998, transferred FY00-05 funding for this program to the services.

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