

UNCLASSIFIED

EXHIBIT R-2, FY 2000 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET

DATE: FEBRUARY 1999

BUDGET ACTIVITY: 2

PROGRAM ELEMENT: 0305208N

PROGRAM ELEMENT TITLE: DISTRIBUTED COMMON GROUND SYSTEMS (DCGS)

(U) COST: (Dollars in Thousands)

<u>Project Number & Title</u>	<u>FY 1998 Budget</u>	<u>FY 1999 Budget</u>	<u>FY 2000 Estimate</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 JSIPS-N	*	\$4,955**	\$5,583	\$6,042	\$6,049	\$6,608	\$6,694	\$6,794	Continuing	Continuing
TOTAL	*	\$4,955**	\$5,583	\$6,042	\$6,049	\$6,608	\$6,694	\$6,794	Continuing	Continuing

* FY 1998 funded under RDT&E Defense Wide, P.E. 0305208D8Z, Project P813, Common Imagery Ground/Surface Systems (CIGSS)

** FY 1999 budget reflects a transfer of funds from defense-wide account to Navy of \$4,966 for Common Imagery Ground/Surface Systems (A2677)

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

The Joint Services Imagery Processing System – The DCGS 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.

(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

EXHIBIT R-2a, FY 2000 RDT&E,N BUDGET PROJECT JUSTIFICATION SHEET

R-1 Item No. 187

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DATE: February 1999

BUDGET ACTIVITY: 2

PROGRAM ELEMENT: 0305208N

PROJECT NUMBER: A2174

PROGRAM ELEMENT TITLE: DISTRIBUTED COMMON GROUND SYSTEMS (DCGS)

PROJECT TITLE: JOINT SERVICE IMAGERY PROCESSING SYSTEMS

(U) COST: (Dollars in Thousands)

<u>Project Number & Title</u>	<u>FY 1998 Budget</u>	<u>FY 1999 Budget</u>	<u>FY 2000 Estimate</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 JSIPS-N	*	\$4,955**	\$5,583	\$6,042	\$6,049	\$6,608	\$6,694	\$6,794	Continuing	Continuing
TOTAL	*	\$4,955**	\$5,583	\$6,042	\$6,049	\$6,608	\$6,694	\$6,794	Continuing	Continuing

* FY 1998 funded under RDT&E Defense Wide, P.E. 0305208D8Z, Project P813, Common Imagery Ground/Surface Systems (CIGSS)

** FY 1999 budget reflects a Congressional Add of \$4,966 for Common Imagery Ground/Surface Systems (A2677)

(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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PROGRAM ELEMENT: 0305208N

PROJECT NUMBER: A2174

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

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

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. (U) FY 1998 ACCOMPLISHMENTS:

FY 1998 was funded as part of the RDT&E Defense-Wide Program, Distributed Common Ground Systems (DCGS), PE 0305208D8Z.

2. (U) FY 1999 PLAN:

(\$4,232) JSIPS-N System Engineering including Precision Targeting Workstation, Classified Communications, JSIPS-N Concentrator Architecture and Imagery Exploitation Software Segment.

(\$500) Perform Collaborative Contingency Targeting and Precision Guided Missile/Support Activity efforts.

(\$100) Test and Evaluation Support.

(\$123) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.

3. (U) FY 2000 PLAN:

(\$3,800) JSIPS-N System Engineering including Precision Targeting Workstation, Classified Communications, JSIPS-N Concentrator Architecture and Imagery Exploitation Software Segment.

(\$919) Shared Reconnaissance Pod (SHARP)/Tactical Input Segment (TIS) Systems Engineering and Integration.

(\$764) Perform Collaborative Contingency Targeting and Precision Guided Missile/Support Activity efforts.

(\$100) Test and Evaluation Support.

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PROGRAM ELEMENT: 0305208N

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

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

(U) B. PROGRAM CHANGE SUMMARY

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>
(U) FY 1999 President's Budget:	0*	0	0
(U) Appropriated Value:		\$4,966	
(U) Adjustments from President's Budget:	0*	+\$4,955	+\$5,583
(U) FY2000 President's Budget Submit:	0*	\$4,955	\$5,583

*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.

CHANGE SUMMARY EXPLANATION:

(U) Funding: FY 1999 net increase of +\$4,955 thousand reflects a transfer from defense-side account to Navy of +\$4,966 thousand for Common Imagery Ground/Surface System and a decrease of -\$11 thousand for Congressional undistributed reductions. FY 2000 net increase of +\$5,583 thousand consists of an increase of +\$4,664 thousand DARO funding transfer and +\$1,000 thousand for IPDM reduction; and a decrease of -\$81 thousand for non pay inflation.

(U) Schedule: Not applicable.

(U) Technical: Not applicable.

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PROJECT TITLE: JOINT SERVICE IMAGERY PROCESSING SYSTEMS

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

<u>Appn</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To</u>	<u>Total</u>
<u>OPN</u>	<u>Budget</u>	<u>Budget</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	<u>Program</u>
	*	\$65,556	\$41,255	\$47,791	\$46,556	\$45,404	\$73,975	75,079	Continuing	Continuing

* FY 1998 procurement budget for this item was submitted in the Procurement, Defense-Wide appropriation as 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.

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 and 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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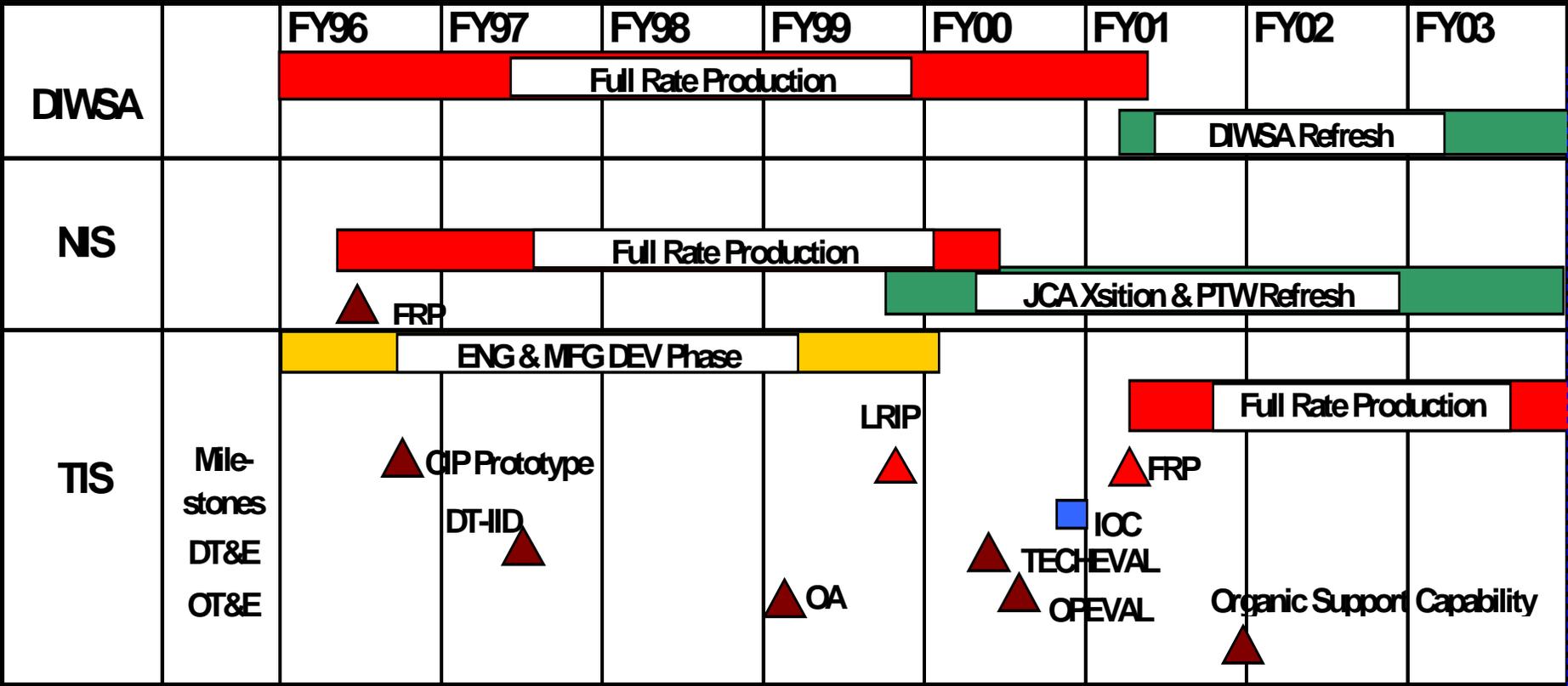
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PROJECT NUMBER: A2174
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 PROCESSING SYSTEMS

E. SCHEDULE PROFILE



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EXHIBIT R-3, FY 2000 RDT&E,N COST ANALYSIS

DATE: February 1999

BUDGET ACTIVITY: 2

PROGRAM ELEMENT: 0305208N

PROJECT NUMBER: A2174

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

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

<u>Cost Categories:</u>	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior Yrs Cost</u> <i>See Note below</i>	<u>FY 1999 Cost</u>	<u>FY 1999 Award Date</u>	<u>FY 2000 Cost</u>	<u>FY 2000 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
Primary Hardware Development										
Hardware Development						\$0				
Systems Engineering	Project Directive Economy Act	SPAWAR, San Diego, CA NRL, Washington DC		\$1,525	5/99	\$2,314	5/00	Continuing	Continuing	
	SS/CPFF	Mitre, Vienna VA		\$500	2/99	\$250	2/00			
	MIPR	NRO/OSO, Wash DC		\$750	3/99	\$800	3/00	Continuing	Continuing	
	MIPR	Rome Lab, NY		\$1,080	6/99	\$200	6/00	Continuing	Continuing	
Subtotal Project Development				\$4,732		\$5,483				

Remarks: None.

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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Developmental Test & Evaluation Test and Evaluation	WX	COMOPTEVFOR, Norfolk, VA		\$100	6/99	\$100	6/00	Continuing	Continuing	
Subtotal Test & Evaluation				\$100		\$100				
Subtotal Management SBIR Assessment				\$123						
Remarks: None.										
Total Cost			See Note Below	\$4,955		\$5,583		Continuing	Continuing	

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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