

UNCLASSIFIED
FY 2000 President's Budget Estimates
EXHIBIT R-2, FY 2000/2001 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET

DATE: FEBRUARY 1999

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0305188N
PROGRAM ELEMENT TITLE: Joint (C4ISR) Battle Center

(U) COST (Dollars in thousands)

PROJECT NUMBER & TITLE	FY 1998 ACTUAL	FY 1999 ACTUAL	FY 2000 ESTIMATE	FY 2001 ESTIMATE	FY 2002 ESTIMATE	FY 2003 ESTIMATE	FY 2004 ESTIMATE	FY 2005 ESTIMATE	TO COMPLETE	TOTAL PROGRAM
X2456 Joint (C4ISR) Battle Center	*	5,337	8,125	8,303	8,497	8,704	8,897	9,095	CONT.	CONT.
TOTAL	*	5,337	8,125	8,303	8,497	8,704	8,897	9,095	CONT.	CONT.

Note: *Funds for this program were transferred from the Joint Staff to the Department of Navy, IAW Defense Reform Initiative, which moved JBC from CJCS to CINCUSACOM beginning in FY99. In addition, funds for this program were previously included in PE 0303149J-C4I for the Warrior.

(U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The Joint Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) Battle Center (JBC) is the Commander In Chief, United States Atlantic Command (CINCUSACOM) and Chairman, Joint Chiefs of Staff (CJCS) facility for warfighter exploration and assessment of C4ISR capabilities. The Center provides the combatant commands, at the Joint Task Force (JTF) level, with a near term joint assessment and experimental environment for the warfighter and technologist in support of Joint Vision 2010 (JV2010). It serves as the technical analysis and assessment agency for the Joint Requirement Operating Council (JROC) in determining C4ISR system "value-added" PRIOR to introduction to the CINCs and in advance of system fielding in operational environments. The intent is for the JBC to be a forcing function for joint synchronization and a means to foster rapid, near-term insertion of C4ISR technology. The mission of the JBC is to provide rapid assessment of required C4ISR interoperability and warfighter utility, join emerging C4ISR technology with new operational doctrine, and result in fielding C4ISR capabilities that meet the joint warfighter's needs.

(U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under OPERATIONAL SYSTEMS DEVELOPMENT because it provides rapid assessment of required C4ISR interoperability, as well as rapid insertion of emerging technology, with new operational doctrine that will result in fielding C4ISR capabilities that meet the joint warfighter's need.

Program Budget Decision (PBD) 710, Defense Reform Initiative, moved the JBC from the Joint Staff to CINCUSACOM with funding moved to the Department of Navy, as Executive Agent for CINCUSACOM, effective FY 99. FY 97 and FY 98 funds are reflected in the Joint Staff RDT&E,DW budget submission.

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(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. (U) FY 1998 PLAN:

- (U) FY 98 funds are reflected in the Joint Staff RDT&E,DW budget submission.
- (U) Funds were transferred from PE 0303149J-C4I for the Warrior to PE 0305188-Joint C4ISR Battle Center beginning in FY 99

2. (U) FY 1999 PLAN:

- (\$705K) Host Joint Warfighter Interoperability Demonstration (JWID). The theme year JWID permits scenarios for warfighting commanders and acquisition decision makers which are relevant to new interoperability technology and the utility of evolving systems for operational use pertinent to each annual theme. The JBC has the infrastructure in place to support these demonstrations and the assessment methodology in place to support evaluations.
- (U) (\$1,450K) Follow-on JWID. Upon completion and evaluation of each theme year JWID the CINC's and CJTF's involved identify systems which demonstrated warfighting utility but which require further refinement and follow-on assessment. These technologies are forwarded to the JBC for inclusion in the exploitation fiscal year plan. Enhancements and follow-on assessments are conducted by JBC and programmatic recommendations are prepared.
- (U) (\$1,100K) Asynchronous Transfer Mode (ATM) Operational Demonstration. ATM will take advantage of significant advances in switching technology to ensure CJTF seamless communications across all forces. Bandwidth restrictions severely limit successful JTF operations. ATM offers a potential solution but there is currently no DOD or Industry standard. This effort addresses a lack of commonality among the services in their communications approaches and addresses synchronization disconnects relating to fielding schedules which affect the required CINC/JTF capability. Each service is currently selecting their "vendor of choice" which will likely lead to non-interoperability as well as increased cost and complexity in implementation. JBC will document/validate interoperability problems, assess ability to support tactical JTF down to actual ground forces and perform an operational demonstration.
- (U) (\$1,187K) Link 16 Operational Demonstration. Demonstrate Link-16/VMF Digitized Battle Space interoperability through proof of concept prototype development to permit portable exchange

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of tactical information to/from Link-16 and VMF networks. This is an advanced concept technology demonstration (ACTD).

- (U) (\$895K) Federated Battle Lab (FBL). The FBL is a consortium of Joint and Service battle centers/laboratories formed to promote solutions to operational problems in CJTF environments. The JBC is recognized as the joint FBL hub by CINC's, services, agencies and CJTF's. The JBC, as chairman of the consortium, will coordinate efforts to capitalize on lessons learned in order to continue these effective and successful collaborative experiments in future years.
3. (U) FY 2000 PLAN:
- (U) (\$730K) Host Joint Warfighter Interoperability Demonstration (JWID). The theme year JWID permits scenarios for warfighting commanders and acquisition decision makers which are relevant to new interoperability technology and the utility of evolving systems for operational use pertinent to each annual theme. The JBC has the infrastructure in place to support these demonstrations and the assessment methodology in place to support evaluations.
 - (U) (\$1,505K) Follow-on JWID. Upon completion and evaluation of each theme year JWID the CINC's and CJTF's involved identify systems which demonstrated warfighting utility but which require further refinement and follow-on assessment. These technologies are forwarded to the JBC for inclusion in the exploitation fiscal year plan. Enhancements and follow-on assessments are conducted by JBC and programmatic recommendations are prepared.
 - (U) (\$1,112K) Federated Battle Lab (FBL). The FBL is a consortium of Joint and Service battle centers/laboratories formed to promote solutions to operational problems in CJTF environments. The JBC is recognized as the joint FBL hub by CINC's, services, agencies and CJTF's. The JBC, as chairman of the consortium, will coordinate efforts to capitalize on lessons learned in order to continue these effective and successful collaborative experiments in future years.
 - (U) (\$1,390K) Intelligence, Surveillance and Reconnaissance (ISR). The JBC, as written into the Joint Intelligence Interoperability Board (JIIB), will perform system integration and functional assessments of the identified intelligence systems, including shared segments, as appropriate. JBC will establish and maintain a JTF Integration Facility (JTFIF) to include current and BETA baselines of all the major Service ISR systems to support on-going maturity, operational utility, and jointness assessments of ISR systems.

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- (U) (\$1,251K) Information Assurance (IA). JBC will continue to be a key player in IA Tools integration with network management and for emerging network IA technologies. JBC will incorporate red-teaming into Joint exercises and FBL efforts in order to facilitate JBC assessments of new C4ISR IA technologies. JBC will also be looking at Information Operations Planning Tools that provide analysis, correlation, and fusion capabilities as well as greater visualization, rehearsal, and wargaming/situational analysis capabilities.
- (U) (\$681K) MILSATCOM. JBC will be a host site for the Global Broadcast System (GBS) Test Bed/GBS Receive Suite. Included in this effort will be the installation of a GBS receive suite at the JBC and the associated program plan to move the Phase I GBS Test Bed equipment to the JBC from the Pentagon. The JBC will be involved in joint evaluation of system applications for various MILSATCOM initiatives as they are developed, thereby assuring that they will be "born joint."
- (U) (\$1,456K) Joint C4ISR Operational Architectures. The focus of Joint Operational Architectures is on C4ISR support to the warfighter across the "Range of military operations." The objective is to describe the doctrinally based tasks and activities, operational elements, and the time phased information flows required to accomplish Joint military operations. The architectures will be used to assess and analyze doctrine, TTPs, system and procedural interoperability, processes, and synchronization issues that impact Joint Forces. These Operational Architectures will provide the baseline to identify warfighter requirements, design and structure assessments, and generate functional metrics. They will be developed and documented in close coordination with OSD, Joint staff, CINCs, and Services.

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B. (U) CHANGE SUMMARY EXPLANATION:

(U) Funding: FY 1999: Economic Assumption (-\$12K), Civilian Personnel (-\$3K).
FY 2000: NWC Rates (+\$32K), Civilian Pay Rates (+10K), and Non-Pay Inflation (-\$117K).

(U) Schedule: No change.

(U) Technical: No change.

C. (U) OTHER PROGRAM FUNDING SUMMARY: (Dollars in thousands)

	FY 1998	FY 1999	FY 2000
	ACTUAL	ACTUAL	ESTIMATE
(U) OPN 3368	*	2,677	0
(U) OMN 1C6C	*	10,071	12,456

Note: *Funds for this program were transferred from DISA to the Joint Staff in FY 97. Funds were further transferred from the Joint Staff to the Department of Navy, IAW Defense Reform Initiative, that moved JBC from CJCS to CINCUSACOM beginning in FY99. In addition, funds for this program were previously included in PE 0303149J-C4I for the Warrior.

(U) RELATED RDT&E: Not applicable

D. (U) ACQUISITION STRATEGY

- FY 1998-01. The JBC does not have a major contract for its RDT&E efforts. Equipments that are required to support our various projects are either bought from other service contracts and/or from the GSA schedule. Services are provided by other services and/or various vendors with expertise on a specific assessment we are accomplishing.

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EXHIBIT R-3, FY 2000/2001 RDT&E,N COST ANALYSIS

DATE: FEBRUARY 1999

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PROGRAM ELEMENT: 0305188N
PROGRAM ELEMENT TITLE: Joint (C4ISR) Battle Center

Exhibit R-3 Cost Analysis (page 1)									Date: February 1999			
APPROPRIATION/BUDGET ACTIVITY 1319/BA 7					PROGRAM ELEMENT: 0305188				PROJECT NAME AND NUMBER: JBC/x2456			
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY-99 Cost	FY-99 Award Date	FY-00 Cost	FY-00 Award Date	FY-01 Cost	FY-01 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Dev Support Equip Acquisition	MIPR	GSA Schedule		289	Var	405	Var			Cont	Cont	Cont
Systems Engineering	C-CPFF	ODU		40	12/98	56	10/99			Cont	Cont	Cont
Development T&E	MIPR	MITRE/ODU		167	12/98	235	10/99			Cont	Cont	Cont
Government Engineering Supt	WR	SPAWARENGC		39	3/99	57	10/99			Cont	Cont	Cont
Subtotal Product Development				535		753						
Remarks:												
Systems Engineering	C-CPFF	ODU		102	12/98	168	10/99			Cont	Cont	Cont
Contractor Engineering Supt	C-CPFF	GTE		432	12/98	630	10/99			Cont	Cont	Cont
Government Engineering Supt	WR	SPAWARENGC		829	3/99	1108	10/99			Cont	Cont	Cont
Misc	MIPR	Various		228	Var	346	Var			Cont	Cont	Cont
Subtotal Support				1591		2252				Cont	Cont	Cont
Remarks												

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Exhibit R-3 Cost Analysis (page 2)										Date: February 1999		
APPROPRIATION/BUDGET ACTIVITY: 1319/BA 7					PROGRAM ELEMENT: 0305188					PROJECT NAME AND NUMBER: JBC/x2456		
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY-99 Cost	FY-99 Award Date	FY-00 Cost	FY-00 Award Date	FY-01 Cost	FY-01 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Dev Support Equipment Acq	MIPR	GSA Schedule		427	Var	802	10/99			Cont	Cont	Cont
Systems Engineering	C-CPFF	ODU		239	12/98	436	10/99			Cont	Cont	Cont
Developmental T&E	MIPR	MITRE/IDA		704	12/98	1091	10/99			Cont	Cont	Cont
Contractor Engineering Support	C-CPFF	GTE		143	4/99	298	10/99			Cont	Cont	Cont
Gov Engineering Support	MIPR(s)	FBL Participants		1698	2/99	2493	10/99			Cont	Cont	Cont
Subtotal T&E				3211		5120						
Remarks												
Subtotal Management												
Remarks												
Total Cost				5337		8125				Cont	Cont	Cont
Remarks												