

UNCLASSIFIED
EXHIBIT R-2, FY 2003 RDT&E,N BUDGET ITEM JUSTIFICATION

DATE: February 2002

BUDGET ACTIVITY: 4

PROGRAM ELEMENT: 0603857N
PROGRAM ELEMENT TITLE: All Service Combat Identification Evaluation Team

PROJECT NUMBER: X2691
PROJECT TITLE: JCIET

(U) COST (Dollars in thousands)

PROJECT NUMBER & TITLE	FY 2001 ACTUAL	FY 2002 ESTIMATE	FY 2003 ESTIMATE	FY 2004 ESTIMATE	FY 2005 ESTIMATE	FY 2006 ESTIMATE	FY 2007 ESTIMATE	TO COMPLETE	TOTAL PROGRAM
X2691 Joint Combat Identification Evaluation Team (JCIET) (Formally All Service Combat Identification Evaluation Team (ASCIET))	12,654	13,410	14,414	17,081	15,403	15,953	17,056	CONT.	CONT.

(U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The Joint Combat Identification Evaluation Team's (JCIET) primary mission is to employ the equipment and personnel of all four Services to evaluate, investigate, and assess joint integration and interoperability of systems, concepts, capabilities, Tactics, Techniques and Procedures (TTP), and doctrine which directly affect Combat Identification (CID) within the present and future joint battle space. In addition to its primary mission, JCIET fulfills a number of collateral missions. JCIET offers Federally Funded Research and Development Centers (FFRDCs), Service Battle Laboratories, and industry the opportunity to review and evaluate emerging technologies in a joint environment on a not-to-interfere basis for risk reduction and verification. JCIET remains the primary venue for experimentation in areas of system integration and interoperability related to joint and allied combat ID and battlefield information management. In addition, JCIET coordinates with the U.S. Joint Forces Command staff to maximize use of the JCIET venue by other joint activities such as the Joint Battle Center (JBC), Joint Futures Lab (JFL), the Single Integrated Air Picture (SIAP) System Engineer (SE) initiative and Joint Test and Evaluation (JT&E) programs. JCIET is U.S. Joint Forces Command's lead for evaluation of CID in the joint, allied and coalition arena.

In July 2000, DCINC USJFCOM directed ASCIET to change the evaluation cycle from 12 to 18-months in an effort to reduce OPSTEMPO/PERSTEMO for the component commands. On 24 Oct 2000, CINC USJFCOM approved re-designation of ASCIET to JCIET (Joint Combat Identification Evaluation Team). In December 2000, CINC USJFCOM directed JCIET to change the evaluation from an 18-month to a 24-month cycle. The outcomes of this schedule change have caused current FYDP funding misalignment with execution year requirements.

A. (U)JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under DEMONSTRATION AND VALIDATION because it includes efforts to evaluate integrated technologies in a realistic operational environment to assess the performance potential of current Tactics, Techniques, and Procedures (TTP), weapons systems, and help expedite technologies that meet joint warfighters' needs.

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B. (U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. (U) FY 2001 Accomplishments:

- (U) (\$4,175) Evaluation Support. JCIET continued to develop/improve instrumentation/data collection systems to meet evaluation objectives, improvement of instrumentation capabilities of new Army and Allied vehicles, aircraft and SHORAD (Short Range Air Defense) equipment, as well as plan and build support structure for the JCIET debriefing network. Instrumentation provides time, space, position information and shot pairing for real time casualty assessment, and subsequent kill removal analysis. Results from the instrumentation pointed to solutions to combat ID deficiencies. Contractor Support was required for instrumentation installation and checkout and to ensure instrumentation is reliable and accurate. Opposing Forces (OPFOR) Equipment configuration and safety modifications were made to ground maneuver vehicles and instrumentation adaptation for proper performance during the next evaluation. Site visits to prepare for the next evaluation were conducted as necessary.
- (U) (\$1,443) JCIET Support. JCIET actively participated in numerous Joint exercise planning events, exercises, and after action reviews. These events included Millennium Challenge, Joint Task Force Exercises (JTFX), Red Flag, Roving Sands, and Amalgam Virgo. JCIET supported the integration of three DoD-sponsored JT&E testing objectives into the 2002 evaluation to include Joint Cruise Missile Defense (JCMD), Joint Command and Control Intelligence Surveillance and Reconnaissance (JC2ISR), and Joint Close Air Support (JCAS) as well as the SIAP-SE. All of these events require detailed planning to integrate and support desired objectives. Under tasking from USJFCOM J-8, JCIET conducted a Mode IV/5 vulnerability study and the development of new TTP to be evaluated during the next JCIET Evaluation. JCIET is a tenant unit at Eglin AFB requiring base support, which includes, utilities, waste disposal, cleaning, civil engineering, communications, and printing contracts. JCIET continued to maintain and upgrade analytical capabilities with needed software and hardware improvements. JCIET required contracted administrative support. The following major documents were published from results of the JCIET 2000 Evaluation: 45-day Quick Look Report and a Final Report. Quick Look and Final results briefings were prepared and presented to the Joint Staff, the Services, and the Commanders-in-Chief (CINCs).
- (U) (\$6,736) Annual Support Contracts. Preparations were made to develop the 2002 Evaluation scenario to mirror real world joint combat operations. Participant command and control systems, data tactical displays, voice and data link communications, identification systems and data engagement decisions were thoroughly analyzed to determine causes of fratricide and assist in developing solutions. Overall combat effectiveness to include exchange ratios, lost shot opportunities and missed targets were also evaluated and analyzed. JCIET's focus was on tactics, techniques and procedures (TTP), joint interoperability, and combat systems. A white force (evaluation control) network was designed and constructed to meet JCIET 2002 scenario requirements. A classified debriefing network was designed and constructed in preparation for the 2002 Evaluation to allow participants at different geographical locations, including ships at sea, to debrief the

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daily missions. This debriefing process allows participants the opportunity to discover, learn and adjust TTP and systems performance for the subsequent mission.

- (U) (\$300) Conferences. JCIET hosted three planning conferences in preparation for the 2002 Evaluation: Airspace, Off-Site Planning, and Initial Planning. Through these planning conferences, warfighter participants are an integral part of the planning process including scenario development and preparation for interoperability between the services.

1. (U) FY 2002 Plan:

- (U) (\$4,101) Evaluation Support. The JCIET Evaluation will be conducted at Eglin AFB FL, Gulfport MS Combat Readiness Training Center (CRTC), and Camp Shelby MS. The Evaluation will provide a realistic, joint task force combat scenario in a littoral battlespace. JCIET's air defense and air-to-surface operations will require full instrumentation of a ground maneuver mounted and dismounted element, an opposing force (OPFOR), and airborne platforms. Air defense platforms including aircraft, ships at sea, and land-based assets will be fully instrumented. Instrumentation provides time, space, position information and shot pairing for real time casualty assessment and kill removal for post-mission and post-evaluation analysis. Results from the instrumentation will point to solutions to combat ID deficiencies. Contractor support will be required for instrumentation installation and checkout to ensure instrumentation is reliable and accurate. OPFOR vehicles and air defense systems will be actual Former Soviet Union (FSU) equipment and will be leased and transported from home base to the evaluation location. JCIET will fund travel, billeting and per diem for 4,500 participants consisting of service warfighters and augmentees for Distinguished Visitors (DV), security, weapons systems expertise, and airspace support from the Federal Aviation Administration (FAA). Site visits required to prepare for the evaluation will be conducted as necessary.
- (U) (\$1,200) JCIET Support. JCIET is a tenant at Eglin AFB requiring base support that includes utilities, waste disposal, cleaning, civil engineering, communications, and printing contracts. JCIET will continue to maintain and upgrade analytical capabilities with needed software and hardware improvements. JCIET will require contracted administrative support. The following major documents will be published in 2002: Evaluation Spin-up Plan and Evaluation Plan. The JCIET staff will provide technical and operational support to forums dealing with combat ID issues e.g., the Joint Integrated Air Defense Interoperability Working Group and the World Wide Combat ID conference, and SIAP-SE.
- (U) (\$7,809) Annual Support Contracts. The JCIET Evaluation scenario will be developed to mirror real world joint combat operations. Participant command and control systems, data tactical displays, voice and data link communications, identification systems and data engagement decisions will be thoroughly analyzed to determine causes of fratricide and assist in developing solutions. Overall combat effectiveness to include exchange ratios, lost shot opportunities and missed targets

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will also be evaluated and analyzed. JCIET's focus will be on tactics, techniques and procedures (TTP), interoperability and combat systems. A white force (evaluation control) network will be designed and constructed to meet JCIET scenario requirements. A classified debriefing network will also be designed and constructed to allow participants at different geographical locations, including ships at sea, to debrief the daily missions. This debriefing process will allow participants the opportunity to discover, learn and adjust TTP and systems performance for the subsequent mission.

- (U) (\$300) Conferences. JCIET will host planning conferences to include Airspace, OPFOR, Mid-Planning and Final Planning. Through these planning conferences, warfighter participants will be an integral part of the planning process including scenario development and preparation for interoperability between the services.

2. (U) FY 2003 Plan:

- (\$4,546) Evaluation Support. JCIET's expanded surface-to-surface and air-to-surface operation will continue to require full instrumentation of a battalion size task force, an opposing force (OPFOR), and airborne platforms. Air defense platforms including aircraft, ships at sea and land based assets will be fully instrumented. Instrumentation provides time, space, position information and shot pairing for real time casualty assessment, and kill removal subsequent analysis. Results from the instrumentation will point to solutions to combat ID deficiencies. Contractor support will be required for instrumentation installation and checkout and to ensure instrumentation is reliable and accurate. OPFOR vehicles and air defense systems will be real Former Soviet Union equipment and will be leased and transported from their home base to the evaluation location. JCIET will fund travel, billeting and per diem for participants consisting of service warfighters and augmentees for security, weapons systems expertise and airspace support (FAA). Site visits required to prepare for the evaluation will be conducted as necessary.
- (U) (\$1,200) JCIET Support. JCIET will remain a tenant at Eglin AFB requiring base support including utilities, waste disposal and cleaning contracts. JCIET will maintain and upgrade analytical capabilities with needed software and hardware improvements. The following major documents will be published from the JCIET 2002 Evaluation: 45-day Quick Look Report, and the Final Report. Quick Look and Final results briefings will be prepared and presented to the Joint Staff, the Services and the Commanders-in-Chief (CINCs). The JCIET staff will provide technical and operational support to forums dealing with combat ID issues e.g., the Joint Integrated Air Defense Interoperability Working Group and the World Wide Combat ID conference. Support USJFCOM Joint Interoperability and Integration (JI&I) objectives as directed by DCINC to include level II training events and exercises.
- (U) (\$8,368) Annual Support Contracts. The JCIET 2004 evaluation scenario will be developed to mirror real world joint combat operations. Participant command and control systems, data tactical

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displays, voice and data link communications, identification systems and data engagement decisions will be thoroughly analyzed to determine causes of fratricide and assist in developing solutions. Overall combat effectiveness to include exchange ratios, lost shot opportunities and missed targets will also be evaluated and analyzed. JCIET's focus will be on tactics, techniques and procedures (TTP), interoperability and combat systems. A white force (evaluation control) network will be designed and constructed to meet JCIET scenario requirements. A classified debriefing network will also be designed and constructed to allow participants at different geographical locations, including ships at sea, to debrief the daily missions. This debriefing process will allow participants the opportunity to discover, learn and adjust TTP and systems performance for the subsequent mission.

- (U) (\$300) Conferences. JCIET will host planning conferences to include: Airspace, OPFOR, and Initial Planning. Through these planning conferences, warfighter participants will be an integral part of the planning process including scenario development and preparation for interoperability between the services.

C. (U) PROGRAM CHANGE SUMMARY: Moved JCIET from the Joint Staff to CINC USJFCOM and JCIET's RDT&E funding to the Department of Navy effective FY 00.

FY 2001: Section 8086: 0.7% Pro-Rata Reduction (-\$92K), Government-Wide Rescission PL 106-554 (-\$29K), SBIR Assessment (-\$335K).

FY 2002: Section 8123: Management Reform Initiative (-\$120K)

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

FY 2000 ACTUAL	FY 2001 ESTIMATE	FY 2002 ESTIMATE	FY 2003 ESTIMATE	FY 2004 ESTIMATE	FY 2005 ESTIMATE	TO COMPLETE	TOTAL PROGRAM
(U) Procurement		*	*				
(U) O&M		*	*				

Note: *O&M and procurement funds remain funded by the Air Force (Air Combat Command) and did not shift to the Navy for executive agency.

E. (U) ACQUISITION STRATEGY

FY 2001-03.

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Competitive contract was awarded to SAIC in January 01, and MEVATEC in February 01. Both contracts were let on a GSA schedule for JCIET technical and test support, under the Advisory and Assistance Support (A&AS) approval process. JCIET is currently working follow-on to these contracts. One Class Type Justification and Authority (J&A) task order contract awarded to SRI in August 00, for JCIET Deployable Force-On-Force Instrumented Range System (DFIRST) concept development. Authorize several sole source contracts for short periods to support evaluation conduct including Opposing Force (OPFOR) fighter type aircraft, Graphic Information Systems (GIS) support services, video conferencing, new technology software application, vehicle instrumentation packaging for data collection, and evaluation operational logistical support.

F. (U) SCHEDULE PROFILE: Not Applicable

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EXHIBIT R-3, FY 2003 RDT&E,N PROJECT COST ANALYSIS

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Exhibit R-3 Cost Analysis (page 1)									Date: February 2002			
APPROPRIATION/BUDGET ACTIVITY 1319/BA 4				PROGRAM ELEMENT: 0603857N					PROJECT NAME AND NUMBER: JCIET/X2691			
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PYS Cost	FY01 Cost	FY01 Award Date	FY02 Cost	FY02 Award Date	FY03 Cost	FY03 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Operational Test & Evaluation	C/FP PO	SAIC Eglin AFB	4214	4492	01/01	5395	02/02	5550	02/03	Cont	Cont	Cont
Operational Test & Evaluation	SS/CPFF MIPR	Stanford Research Inst., Menlo Park CA	1575	667	04/01	615	02/02	1300	11/02	Cont	Cont	Cont
Operational Test & Evaluation	SS/FP PO	MEVATEC Eglin AFB	1914	2244	02/01	2414	03/02	2818	03/03	Cont	Cont	Cont
Evaluation Other Costs	MIPR/PO	FY00 Savannah FY01 Gulf Port Camp Shelby MS	4209	3258	Various	3086		2846		Cont	Cont	Cont
Travel and Conference		JCIET/Various	735	700		700		700		Cont	Cont	Cont
Operation Costs/Research		JCIET/Various	1251	1293		1200		1200		Cont	Cont	Cont
Subtotal T&E			13898	12654		13410		14414		Cont	Cont	Cont
Remarks:												
Subtotal Support												
Remarks												

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Exhibit R-3 Cost Analysis (page 2)										Date: February 2002		
APPROPRIATION/BUDGET ACTIVITY: 1319/BA 4					PROGRAM ELEMENT: 0603857N					PROJECT NAME AND NUMBER: JCIET/X2691		
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY01 Cost	FY01 Award Date	FY02 Cost	FY02 Award Date	FY03 Cost	FY03 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal T&E												
Remarks												
Subtotal Management												
Remarks												
Total Cost			13898	12654		13410		14414		Cont	Cont	Cont
Remarks												