

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification

DATE:

February 2005

APPROPRIATION/BUDGET ACTIVITY

RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY /

BA-4

R-1 ITEM NOMENCLATURE

0603857N - Joint Combat Identification Evaluation Team (JCIET)

COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	14.465	13.475	15.696	16.782	17.103	17.408	17.767	18.068
2691 - Joint Combat Identification Evaluation Team	14.465	13.475	15.696	16.782	17.103	17.408	17.767	18.068
Quantity of RDT&E Articles								

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

JCIET conducts assessments and evaluations of combat identification capabilities in order to reduce the risk of fratricide and other friendly fire incidents. These JCIET events support the U.S. JFCOM mission of joint concept development and experimentation as directed in the Secretary of Defense's (SECDEF's) Defense Planning Guidance. JCIET events are also an integral part of fulfilling JFCOM's responsibility outlined in the SECDEF's Transformation Planning Guidance (TPG) to measure transformation progress through experimentation and evaluation of findings. Capabilities assessments and evaluations of combat identification during these field evaluations are conducted in the following combat mission areas: surface-to-surface, air-to-surface, surface-to-air, and air-to-air. These mission areas may be evaluated at a single exercise or at several different venues during the year. Venue selection and evaluation of a specific mission area are dependent on force availability within a particular exercise. Evaluation of each specific mission area requires full instrumentation of all participants influencing execution of missions within that mission area. All participants both Blue Forces and Opposing Forces (OPFOR) including aircraft, ships and land based assets to include individual soldiers and Marines are fully instrumented. Instrumentation provides time, space, position information and shot pairing for real-time data collection and subsequent detailed analysis. This detailed analysis is required to support findings and recommendations that in turn provide solutions to Combatant Commander's identified combat identification deficiencies. Contractor support is required for instrumentation installation and operation as well as follow-on analysis of the data. A realistic OPFOR is required within each mission area to generate valid combat identification scenarios. This OPFOR consisting of ground, air and naval forces will be real Former Soviet Union (FSU) equipment whenever practical and will be leased and transported from their home base to the various exercise venues.

(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 helps expedite technologies that meet joint warfighters' needs.

R-1 SHOPPING LIST - Item No. 76

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Exhibit R-2, RDTEN Budget Item Justification
(Exhibit R-2, page 1 of 9)

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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification

DATE:

February 2005

APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT NUMBER AND NAME

PROJECT NUMBER AND NAME

RDT&E, N / BA-4

0603857N - Joint Combat Identification Evaluation Team (JCIET)

2691 - Joint Combat Identification Evaluation Team (JCIET)

(U) B. Accomplishments/Planned Program

Field Evaluations	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	4.380	3.075	4.905	5.594
RDT&E Articles Quantity				

JCIET conducts assessments and evaluations of combat identification capabilities in order to reduce the risk of fratricide and other friendly fire incidents. Capabilities assessments and evaluations of combat identification during these field evaluations are conducted in accordance with and in support of the Defense Planning Guidance and Transformation Planning Guidance. Evaluations are conducted in the following combat mission areas: surface-to-surface, air-to-surface, surface-to-air, and air-to-air. These mission areas may be evaluated at a single exercise or at several different venues during the year. Venue selection and evaluation of a specific mission area are dependent on force availability within a particular exercise. Evaluation of each specific mission area requires full instrumentation of all participants influencing execution of missions within that mission area. All participants both Blue Forces and Opposing Forces (OPFOR) including aircraft, ships and land based assets to include individual soldiers and Marines are fully instrumented. Instrumentation provides time, space, position information and shot pairing for real-time data collection and subsequent detailed analysis. This detailed analysis is required to support findings and recommendations that in turn provide solutions to Combatant Commander's identified combat identification deficiencies. Contractor support is required for instrumentation installation and operation as well as follow-on analysis of the data. A realistic OPFOR is required within each mission area as per direction outlined in Director, Force Transformation directive to generate valid combat identification scenarios. This OPFOR consisting of ground, air and naval forces will be real Former Soviet Union (FSU) equipment whenever practical and will be leased and transported from their home base to the various exercise venues.

FY 2004 Accomplishments: The JCIET Evaluation was conducted in conjunction with USJFCOM sponsored Joint National Training Capability (JNTC) enhanced training exercise Combined Joint Task Forces Exercise (CJTFFEX) 04-2 12 – 21 Jun 04. CJTFFEX 04-2 was conducted at various geographically separated areas to include the Joint Training, Analysis, and Simulation Center (JTASC) in Suffolk VA, Camp Lejeune NC, Shaw Air Force Base SC, and the Virginia Capes. The Evaluation provided a realistic, joint task force combat scenario in a littoral battlespace. JCIET also conducted analysis of the USJFCOM J85 sponsored CCID ACTD held June 2004.

FY 2005, 2006, and 2007 Planned: JCIET will conduct combat identification and interoperability evaluations in conjunction with JFCOM test and evaluation events and JNTC exercises in the areas of surface-to-surface, air-to-surface, surface-to-air, and air-to-air. JCIET is also tasked to support the CCID ACTD 2005 experiment to be conducted in Europe. JCIET is also reviewing feasibility of supporting additional JNTC events as tasked by JFCOM. In 2005, JFCOM will expand JCIET's charter to incorporate evaluation requirements across the spectrum of Joint Fires. This may require JCIET to conduct additional evaluations during each Fiscal Year. JCIET operations will continue to require full instrumentation of all blue force and opposing force participants. All platforms including aircraft, ships at sea, and land based assets will be fully instrumented. JCIET evaluations will require full instrumentation of ground maneuver mounted and dismounted elements, airborne platforms, ships at sea and an opposing force (OPFOR) air and ground force instrumentation provides time, space, position information and shot pairing for real time casualty assessment and kill removal and for post-mission and post-evaluation analysis. Data collected from the instrumentation will point to solutions to combat ID deficiencies. In accordance with OSD Director of Force Transformation policy guidance a realistic OPFOR are employed in support of the exercise. JCIET is also directed by charter to provide support to promising Combat Identification enhancements or initiatives with subject matter expertise and/or funding.

JCIET Support	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.849	1.487	1.532	1.578
RDT&E Articles Quantity				

FY04-07: JCIET is a tenant at Eglin AFB and requires base support to include: utilities, cleaning, communications, printing, shipping and vehicles. JCIET maintains and upgrades analytical capabilities with software and hardware improvements. The following major documents are published in preparation for and as a result of Field Evaluations: Evaluation Plan, Spin-Up Plan, BLUFOR and OPFOR Playbooks, National Technical Means Assessment, Redeployment Plan, Quick Look Report, and the Final Report. Briefings on findings and recommendations are prepared and made available for presentation to the Joint Staff, the Services and the Combatant Commanders. JCIET contracts for Technical and Acquisition Management Support through a Host Base contract vehicle.

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Exhibit R-2, RDTEN Budget Item Justification
(Exhibit R-2, page 2 of 9)

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2005																
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4	PROGRAM ELEMENT NUMBER AND NAME 0603857N - Joint Combat Identification Evaluation Team (JCIET)	PROJECT NUMBER AND NAME 2691 - Joint Combat Identification Evaluation Team (JCIET)																	
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<div style="border: 1px solid black; padding: 5px;"> <p>FY04 Accomplishments-FY05-07 Planned: JCIET technical and support manpower for planning, execution, analysis and reporting for combat identification capabilities assessment, findings and recommendations is provided through various Advisory and Assistance Support contracts. JCIET events are developed to mirror real world joint combat operations. JCIET analyzes participant command and control systems, tactical displays, voice and data link communications, identification systems and engagement decisions to determine causes of fratricide and assist in developing findings and recommended solutions. Overall combat effectiveness to include target engagements, lost shot opportunities and missed targets are also evaluated and analyzed. A white force (evaluation control) network is designed and constructed for real-time mission monitoring of evaluation execution. A classified network is also designed and constructed to support participants at different geographical locations in the conduct and debrief of the daily missions at the SECRET level to allow participants the opportunity to discover, learn, and adjust Tactice, Techniques and Procedures (TTP) and systems performance for the subsequent mission.</p> </div>																			
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<div style="border: 1px solid black; padding: 5px;"> <p>FY04 Accomplishments-FY05-FY07 Planned: JCIET hosts or attends numerous planning conferences to include Airspace, OPFOR, Initial Planning, Mid-Planning and Final Planning. Warfighter participants are an integral part of the planning process including scenario development and preparation for interoperability between the services. Site visits required to prepare for events are conducted as necessary. The JCIET staff also provides technical and operational support to forums dealing with combat ID and friendly fire issues.</p> </div>																			

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2005	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4			PROGRAM ELEMENT NUMBER AND NAME 0603857N - Joint Combat Identification Evaluation Team (JCIE			PROJECT NUMBER AND NAME 2691 - Joint Combat Identification Evaluation Team (JCIET)		

(U) D. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost
Not Applicable										

(U) E. ACQUISITION STRATEGY: *

FY 2004-05. Five-year sole-source (one-year basic with four one-year options) contracts were awarded to SAIC and BAE SYSTEMS on 1 April 2002 (MEVATEC was bought by BAE in April 03, resulting in name change only). The first year option was awarded on 1 April 2003 for both contracts. Second year option commenced November 2004. A two-year sole-source contract was awarded on 16 May 03, to Applied Data Trends, Inc. (ADTi), to provide computer-generated graphic display (Tactical Office software) support. A contract was awarded to Airborne Tactical Advantage Company (ATAC), on 12 May 03, to provide four foreign fighter-type aircraft to support JCIET August 2003 event at Gulfport, MS. JCIET will continue to utilize competitive and sole-source contract procedures, to include reviewing Government agencies, to determine the best vendor to meet JCIET requirements, at the best value.

(U) F. MAJOR PERFORMERS:

NONE

* Not required for Budget Activities 1,2,3, and 6

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Exhibit R-3 Cost Analysis (page 1)										DATE: February 2005		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME					
RDT&E, N / BA-4			0603857N - Joint Combat Identification Evaluation Team (JCIET)				2691 - Joint Combat Identification Evaluation Team (JCIET)					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development											0.000	0.000
Ancillary Hardware Development											0.000	0.000
Systems Engineering											0.000	0.000
Licenses											0.000	0.000
Tooling											0.000	0.000
GFE											0.000	0.000
Award Fees											0.000	0.000
Subtotal Product Development			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
Development Support											0.000	0.000
Software Development											0.000	0.000
Training Development											0.000	0.000
Integrated Logistics Support											0.000	0.000
Configuration Management											0.000	0.000
Technical Data											0.000	0.000
GFE											0.000	0.000
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												

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Exhibit R-3 Cost Analysis (page 2)									DATE: February 2005			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-4			0603857N - Joint Combat Identification Evaluation Team (JCIET)			2691 - Joint Combat Identification Evaluation Team (JCIET)						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Evaluation Other Costs	MIPR	Various	17.052	2.188	Various	3.876	Various	4.537	Various	Continuing	Continuing	0.000
Operations Costs/Research	MIPR	JCIET/Various	6.014	1.487	Various	1.660	Various	1.718	Various	Continuing	Continuing	0.000
Developmental Test and Evaluation	MIPR	Various	4.650	0.530	Various	0.538	Various	0.548	Various	Continuing	Continuing	
Travel and Conferences	MIPR	JCIET/Various	2.835	0.406	Various	0.412	Various	0.420	Various	Continuing	Continuing	0.000
Operational Test and Evaluation	SS/T&M	SAIC, BAE, CNA / Eglin AFB	36.494	8.507	11/04	8.847	11/05	9.190	11/06	Continuing	Continuing	0.000
Operational Test and Evaluation	CPAF	TAMS / Eglin AFB	0.695	0.357	10/04	0.363	10/05	0.369	10/06	Continuing	Continuing	0.000
Subtotal T&E			67.740	13.475		15.696		16.782		Continuing	Continuing	0.000
Remarks:												
Contractor Engineering Support											0.000	0.000
Government Engineering Support											0.000	0.000
Program Management Support											0.000	0.000
Travel											0.000	0.000
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
Total Cost			67.740	13.475		15.696		16.782		Continuing	Continuing	0.000
Remarks:												

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EXHIBIT R4, Schedule Profile																								DATE: February 2005								
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-4												PROGRAM ELEMENT NUMBER AND NAME 0603857N - Joint Combat Identification Evaluation Team (JCIET)								PROJECT NUMBER AND NAME 2691 - Joint Combat Identification Evaluation Team (JCIET)												
Fiscal Year	2004				2005				2006				2007				2008				2009				2010				2011			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Acquisition Milestones																																
Prototype Phase																																
System Development (e.g., Radar System dev.)																																
Equipment Delivery (e.g., EDM Radar Delivery)																																
Software 1XXSW Delivery 2XXSW Delivery																																
Test & Evaluation Milestones																																
Operational Test																																
Planning																																
Publications																																
Production Milestones																																
LRIP I																																
LRIP II																																
FRP																																
Deliveries																																

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* Not required for Budget Activities 1, 2, 3, and 6

** The minimum data set to be presented on each R-4, will consist of the items listed above if the individual data point is applicable to the particular project.

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Exhibit R-2, RDTE Budget Item Justification
(Exhibit R-2, page 8 of 9)

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Exhibit R-4a, Schedule Detail						DATE:					
APPROPRIATION/BUDGET ACTIVITY RDT&BA-4						PROGRAM ELEMENT 0603857N - Joint Combat Identification Evaluation Team (JCIET)			PROJECT NUMBER AND NAME 2691 - Joint Combat Identification Evaluation Team (JCIET)		
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011			
Prototype Phase											
System Design Review (SDR)											
Milestone II (MSII)											
Contract Preparation											
Software Specification Review (SSR)											
Preliminary Design Review (PDR)											
System Development											
Critical Design Review (CDR)											
Quality Design and Build											
Test Readiness Review (TRR)											
Developmental Testing (DT-IIA)											
Eng Dev Model (EDM) Radar Delivery - Lab											
Software Delivery 1XXSW											
Preproduction Readiness Review (PRR)											
EDM Radar Delivery - Flt Related											
Milestone C (MS C)											
Operational Testing (OT-IIA)											
Start Low-Rate Initial Production I (LRIP I)											
Software Delivery 2XXSW											
Developmental Testing (DT-IIB1)											
Developmental Testing (DT-IIB2)											
Start Low-Rate Initial Production II											
Operational Testing (OT-IIB)	3Q &4Q	2Q-3Q&4Q	4Q	TBD	TBD	TBD	TBD	TBD			
Developmental Testing (DT-IIC)											
Functional Configuration Audit (FCA)											
Low-Rate Initial Production I Delivery											
Technical Evaluation (TECHEVAL)											
Physical Configuration Audit											
Operational Evaluation (OT-IIC) (OPEVAL)											
Low-Rate Initail Production II Delivery											
IOC											
Full Rate Production (FRP) Decision											
Full Rate Production Start											
First Deployment											

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Exhibit R-2, RD8EN Budget Item Justification
(Exhibit R-2, page 9 of 9)