OSD RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

APPROPRIATION/ BUDGET ACTIVITY

RDT&E/ Defense Wide BA# 4

PE NUMBER AND TITLE

0604828D8Z - Joint FIRES Integration and Interoperability Team

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	Cost (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
		Actual							
	Total Program Element (PE) Cost	0.000	16.686	16.596	16.934	17.441	17.622	17.854	18.104
P857	Joint Fires Integration & Interoperability	0.000	16.686	16.596	16.934	17.441	17.622	17.854	18.104
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A. Mission Description and Budget Item Justification: The FY 2005 National Defense Authorization Act (NDAA) directed the transfer of US Joint Forces Command (USJFCOM) RDT&E funding of joint warfare experimentation and training programs from Navy accounts to new Defense Wide RDT&E accounts beginning in FY 2007. Funding to support the Joint Fires Integration and Interoperability Program prior to FY 2007 was reflected in the Navy's RDT&E Program under PE 0603857N. The new funding alignment brings the Joint Fires Integration & Interoperability (JFIIT) Program into oversight by the Office of the Secretary of Defense (OSD)/Defense Research & Engineering (DR&E) as executed by the Advanced Systems & Concepts (AS&C) Office.

Joint Requirements Oversight Council Memo (JROCM) 183-4, dated 8 Oct 04, directs U.S. Joint Forces Command to "produce a Joint Fires Support Organization". The Joint Fires Integration and Interoperability Team (JFIIT) is the lead agent for USJFCOM to investigate, assess and recommend improvements for the integration, interoperability and operational effectiveness of Joint Fires and Combat Identification (CID). JROCM 241-05, dated 3 Nov 05, validated the JFIIT mission and acknowledged "contributions to joint fires through completed products, activities in progress, and planned activities".

The JFIIT mission is to improve the integration, interoperability, and operational effectiveness of Joint fires focusing at the tactical level while informing operational level related activities and process. JFIIT takes a holistic approach to improving joint fires by providing solutions that produce effective target acquisition, command and control, and interoperable firing systems, thereby reducing fratricide and collateral damage. In effect, JFIIT is an organization integrated with acquisition, training, doctrine development, technical assessment, and test & evaluation. This results in not only near-term tactical identification of issues and solutions, but informs and provides foundation for longer-viewed operational and tactical solutions as well. JFIIT supports the USJFCOM mission of joint concept development & experimentation, as well as integration and interoperability, as directed in the Secretary of Defense (SECDEF) Defense Planning Guidance. JFIIT involvement in identifying solutions in support of the irregular warfare force and process construct has increased in response to changes in Tactics, Techniques and Procedures (TTPs) evolved in the current effort to combat terrorism.

B. Program Change Summary	FY 2006	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2007)	0.000	16.782	17.103	17.408
Current BES/President's Budget (FY 2008/2009)	0.000	16.686	16.596	16.934
Total Adjustments	0.000	-0.096	-0.507	-0.474
Congressional Program Reductions		-0.096		
Congressional Rescissions				

Date: February 2007

OSD RDT&E BUDGET IT	EM JUST	IFICAT	CION (R2	Exhibit)		Date: February 2007
APPROPRIATION/ BUDGET ACTIVITY RDT&E/ Defense Wide BA# 4			ER AND TITLE D8Z - Joint	FIRES Integ	gration and Interoperabilit	ty Team
Congressional Increases						
Reprogrammings						
SBIR/STTR Transfer						
Other			-0.507	-0.474		

C. Other Program Funding Summary: Not Applicable.

D. Acquisition Strategy: Not Applicable.

E. Performance Metrics:

FY	Strategic Goals Supported	9	-	Improvement	Metric / Methods of	Actual Performance Metric / Methods of Measurement
07						

Comment: OSD and USJFCOM are developing performance criteria for JFIIT that will closely align this program with mission support priorities for integrated Joint Command & Control. As with the Joint Integration & Interoperability (JI&I) Program, JFIIT effectiveness ultimately hinges on delivering successful joint solutions to Combatant Commands by customer-specified delivery dates. The deliverables may include discrete improvements to training processes, doctrine, Tactics, Techniques & Procedures (TTPs), and/or technical system performance specifications and standards. OSD and USJFCOM will work in concert to approve the annual agenda of work and validate results. As with other joint programs executed by USJFCOM and overseen by OSD, provisions will be emplaced to handle emergent, high-priority requests from CoComs, Services, and Defense Agencies.

Date: February 2007 **OSD RDT&E PROJECT JUSTIFICATION (R2a Exhibit)** APPROPRIATION/ BUDGET ACTIVITY PE NUMBER AND TITLE PROJECT RDT&E/ Defense Wide BA# 4 0604828D8Z - Joint FIRES Integration and Interoperability Team P857 FY 2007 FY 2008 FY 2009 FY 2010 FY 2012 Cost (\$ in Millions) FY 2006 FY 2011 FY 2013 Actual P857 Joint Fires Integration & Interoperability 0.000 16.686 16.596 16.934 17.441 17.622 17.854 18.104

A. Mission Description and Project Justification: The FY 2005 National Defense Authorization Act (NDAA) directed the transfer of US Joint Forces Command (USJFCOM) RDT&E funding of joint warfare experimentation and training programs from Navy accounts to new Defense Wide RDT&E accounts beginning in FY 2007. Funding to support the Joint Fires Integration and Interoperability Program prior to FY 2007 was reflected in the Navy's RDT&E Program under PE 0603857N. The new funding alignment brings the Joint Fires Integration & Interoperability (JFIIT) Program into oversight by the Office of the Secretary of Defense (OSD)/Defense Research & Engineering (DR&E) as executed by the Advanced Systems & Concepts (AS&C) Office.

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B. Accomplishments/Planned Program:

Accomplishment/Planned Program Title	FY 2006	FY 2007	FY 2008	FY 2009
Joint Fires and Combat Identification (CID)	0.000	16.686	16.596	16.934

As endorsed by JROCM 183-4, USJFCOM chartered JFIIT as the lead field agent for USJFCOM with the objective to investigate, assess and recommend improvements for the integration, interoperability and operational effectiveness of Joint Fires and Combat Identification (CID).

JFIIT performs this function by conducting capabilities and training assessments and providing subject matter expertise to ensure joint context for fires integration at the tactical level. In coordination with the JFCOM Staff, JFIIT interfaces with the Services and Combatant Commanders (COCOMs) at the tactical level to address their highest priority joint fires issues and develops recommendations for resolution

R-1 Shopping List Item No. 98 Page 3 of 10 UNCLASSIFIED

Exhibit R-2A Project Justification

OSD RDT&E PROJECT JUSTIFICATION (R2a Exhibit)

APPROPRIATION/ BUDGET ACTIVITY RDT&E/ Defense Wide BA# 4

PE NUMBER AND TITLE

PROJECT

Date: February 2007

0604828D8Z - Joint FIRES Integration and Interoperability Team

P857

and courses of action. JFIIT conducts assessments and evaluations of joint fires and combat identification (CID) capabilities to increase combat effectiveness and reduce the risk of fratricide and other friendly fire incidents. The program assesses the performance potential of Tactics, Techniques, and Procedures (TTP), doctrine, and weapons systems, and expedites solutions that meet warfighters' needs.

The primary outcome of the JFIIT effort is to provide the warfighter with the ability to effectively execute command and control in the application of "fires", through the seamless integration of joint fires and the coherent application of interoperable and integrated combat identification.

JFIIT's primary outputs and efficiencies are demonstrated by delivery of Doctrine-Organization-Training-Material-Leadership-Personnel-Facilities (DOTMLPF) Change Recommendations, Military Utility Assessment (MUA) reports, proposed TTP and doctrine which ensure the provision of: 1) Early identification of joint fires vulnerabilities; 2) Improvements in coordination of fires, command and control, and interoperability of firing systems resulting in increased effectiveness and efficiency; 3) Jointly trained forces; 4) Increased effectiveness and confidence in combat identification and 5) Reduced collateral damage and decreased number of fratricide incidents across the force.

FY 2007 Planned Output: JFIIT will conduct joint fires and combat identification assessments and evaluations in conjunction with JFCOM exercises, experiments, and test and evaluation events primarily in the areas of joint ISR support to joint air-to-ground fires integration with maneuver. JFIIT is also chartered to develop techniques for promising combat identification enhancements and joint fires initiatives.

- JFIIT will assist in the identification of solutions in support of irregular warfare issues identified during these evaluations. Specifically, JFIIT will provide analysis support for the SOCOM Atlantic Strike V exercise. This is the fifth in an ongoing series of Joint Terminal Attack Controller (JTAC) training exercises.
- JFIIT will support the Joint National Training Capability Integrated Training Event conducted during PACOM exercise Terminal Fury 2007. JFIIT will conduct data collection and analysis, provide feedback to exercise participants, and submit DOTMLPF Change Recommendations as required.
- JFIIT will also act as the analytical lead for the Coalition Combat Identification Advanced Concept Technology Demonstration (CCID ACTD) Extension exercise Bold Quest and will produce analytical reports as input to the CCID ACTD Military Utility Assessment intended to inform POM 10-15.
- JFIIT planning and analytical support has been requested to support the Air Force Special Operations Command exercise Emerald Warrior 2007. JFIIT is programmed to provide real-time mission monitoring, feedback to participants, and if warranted, DOTMLPF Change Recommendations.
- JFIIT will continue support to National Training Center (NTC) for pre-deployment mission rehearsal exercises and Leadership Training Program (LTP) training capabilities development.
- JFIIT support has also been requested for evaluation of the Joint Fire Coordination Measure Joint Test and Evaluation (JFCM JT&E) mini-test in conjunction with Talisman Saber 2007.
- USJFCOM Joint War fighting Center has also requested JFIIT support as part of Talisman Saber 2007 objectives.

FY 2008 Planned Output:

- JFIIT is programmed to develop the pre-deployment mission rehearsal exercises support package as requested by the Services and COCOMs to vet joint fires issues identified through the JFCOM Joint Center for Operational Analysis (JCOA) Lessons Learned.
- JFIIT will act as the lead planner and analytical lead for the biennial USAF Air Combat Command (ACC) Joint Expeditionary Force eXperiment (JEFX) 2008. This event identifies gaps and seams in the integration and interoperability of equipment in the joint environment. JFIIT will contribute to the JEFX report including DOTMLPF Change Recommendations and MUAs based on JFIIT capabilities

R-1 Shopping List Item No. 98 Page 4 of 10 UNCLASSIFIED

Exhibit R-2A Project Justification

	UNCLASSIFIED	
OSD RDT&E PROJECT JUS	TIFICATION (R2a Exhibit)	Date: February 2007
APPROPRIATION/ BUDGET ACTIVITY RDT&E/ Defense Wide BA# 4	PE NUMBER AND TITLE 0604828D8Z - Joint FIRES Integration and Interoperabilit	PROJECT P857
assessment. The joint community assesses the DOTMLPF changes	and MUA to develop procurement and production decisions for acquisition of the appropriate joint	interoperable solutions.
- JFIIT will continue to serve as the analytical lead for the CCID A	CTD Extension and will produce analytical reports as input to the CCID ACTD MUA intended to in	form POM 10-15.
	certification and accreditation program and execution of joint fires related JNTC exercises. JFIIT will atter of operations, incorporating the most current lessons learned for implementation in combat.	ll identify operational issues for the unit's
- JFIIT will also continue capabilities and training assessments deve the FORSCOM National Training Center's LTP, information is am	elopment to ensure other rotational units benefit from the latest lessons learned prior to deployment. plified from staff level to the tactical level.	By integrating this vital information into
	ent mission rehearsal exercises as requested by the Services and COCOMs. Without identification of ject matter expertise that JFIIT can provide in vetting these solutions at the tactical level of war. Evolop tactical level recommendations to address the gaps and seams.	
- JFITT will act as lead planner and analytical lead for the 2009 Join Change Recommendations and Military Utility Assessment.	nt National Training Capability Integrated Training Event (ITE). JFIIT will contribute to an ITE exe	ercise report that will include DOTMLPF
	pility (JNTC) certification and accreditation program of joint fires related JNTC venues. JNTC Full GITT will assist in transitioning this program into service capabilities to enable tactical level joint transitioning this program.	
- JFIIT will continue support for irregular warfare in the capability	and training assessment of special operations exercises and events in preparation for deployment.	
C. Other Program Funding Summary: Not Applicable.		
D. Acquisition Strategy: Not Applicable.		
E. Maior Performers Not Applicable.		

OSD RDT&E COST ANALYSIS (R3) Date: February												ry 2007			
APPROPRIATION/ BUDGET ACT RDT&E/ Defense Wide BA# 4	TIVITY		PE NUMBER 0604828E			nteroper	ability T	'eam	PROJEC P857	Т					
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract			
Subtot	Subtotal:											<u>-</u> -			
H.GG.		D. C		EN 2007	EN 2007	EN/ 2000	EN 2000	EW 2000	EN 2000	G (T	7				
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract			
Evaluation Other Costs	MIPR	Various	0	4468	1-4Q	4400	1-4Q	4500	1-4Q	0	13368	0			
			_	1.000	1.40	1700	1-4Q	1750	1-4Q	0	5110	0			
Operations Costs/Research	MIPR	JFIIT/Various	0	1660	1-4Q	1700	1-4Q	1730	1-4Q	U	3110	Ů			
Operations Costs/Research Subtot	l l	JFIIT/Various	0	6128	1-4Q	6100	1-4Q	6250	1-40	0	18478				
*	al: Contract	Performing Activity &	Total	6128 FY 2007	FY 2007	6100 FY 2008	FY 2008	6250 FY 2009	FY 2009	O Cost To	18478 Total	0 Target			
Subtot	al:		0	6128		6100		6250		0	18478	0			
Subtot III. Test And Evaluation	Contract Method &	Performing Activity &	Total	6128 FY 2007	FY 2007 Award	6100 FY 2008	FY 2008 Award	6250 FY 2009	FY 2009 Award	O Cost To	18478 Total	Target Value of			
Subtot III. Test And Evaluation Development Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	6128 FY 2007 Cost	FY 2007 Award Date	6100 FY 2008 Cost	FY 2008 Award Date	6250 FY 2009 Cost	FY 2009 Award	Cost To Complete	Total Cost	Target Value of Contract			
Subtot III. Test And Evaluation Development Test and Evaluation Operational Test and Evaluation	Contract Method & Type MIPR	Performing Activity & Location JFIIT/Various SAIC, BAE, NG/Eglin	Total PYs Cost	6128 FY 2007 Cost	FY 2007 Award Date 1-4Q	6100 FY 2008 Cost	FY 2008 Award Date	6250 FY 2009 Cost 750	FY 2009 Award	Cost To Complete	Total Cost	Target Value of Contract			
Subtot III. Test And Evaluation Development Test and Evaluation Operational Test and Evaluation	Contract Method & Type MIPR CPFF CPAF	Performing Activity & Location JFIIT/Various SAIC, BAE, NG/Eglin AFB	Total PYs Cost 0 0	6128 FY 2007 Cost 738 9297	FY 2007 Award Date 1-4Q 1-4Q	6100 FY 2008 Cost 700 9396	FY 2008 Award Date 1-4Q 1-4Q	6250 FY 2009 Cost 750 9484	FY 2009 Award	Cost To Complete	Total Cost 2188 28177	Target Value of Contract 0			
Subtot III. Test And Evaluation Development Test and Evaluation Operational Test and Evaluation Operational Test and Evaluation Subtot	Contract Method & Type MIPR CPFF CPAF al:	Performing Activity & Location JFIIT/Various SAIC, BAE, NG/Eglin AFB TAMS/Eglin AFB	Total PYs Cost 0 0 0	6128 FY 2007 Cost 738 9297 323 10358	FY 2007 Award Date 1-4Q 1-4Q	FY 2008 Cost 700 9396 400 10496	FY 2008 Award Date 1-4Q 1-4Q	FY 2009 Cost 750 9484 450 10684	FY 2009 Award Date	Cost To Complete 0 0 0 0	Total Cost 2188 28177 1173 31538	Target Value of Contract 0 0 0			
Subtot III. Test And Evaluation Development Test and Evaluation Operational Test and Evaluation Operational Test and Evaluation	Contract Method & Type MIPR CPFF CPAF	Performing Activity & Location JFIIT/Various SAIC, BAE, NG/Eglin AFB	Total PYs Cost 0 0	6128 FY 2007 Cost 738 9297	FY 2007 Award Date 1-4Q 1-4Q	FY 2008 Cost 700 9396 400	FY 2008 Award Date 1-4Q 1-4Q	6250 FY 2009 Cost 750 9484 450	FY 2009 Award	Cost To Complete 0 0 0	Total Cost 2188 28177 1173	Target Value of Contract 0 0			

R-1 Shopping List Item No. 98 Page 6 of 10 UNCLASSIFIED

Exhibit R-3 ARMY RDT&E COST ANALYSIS

OSD RDT&E COST ANAL	YSIS (R3)		Date: February 2007					
PPROPRIATION/ BUDGET ACTIVITY 2DT&E/ Defense Wide BA# 4	PE NUMBER AND TITLE 0604828D8Z - Joint FIR	ES Integration a	nd Interoperability		ROJECT 2857			
Subtotal:	0 200	0	0	0	200			
Project Total Cost:	0 16686	16596	16934	0	50216			
Project Total Cost:	0 10080	10590	10934	<u> </u>	50210			

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R-1 Shopping List Item No. 98 Page 8 of 10 UNCLASSIFIED



Schedule Detail (R4a Exhib	it)					Dat	e: February 20	07
APPROPRIATION/ BUDGET ACTIVITY RDT&E/ Defense Wide BA# 4		MBER AND TIT 828D8Z - Jo		ntegration a	nd Interope	rability Tea		OJECT 57
Schedule Detail	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Operational Test		2-4Q	2-4Q	2-4Q				
Comment:								