PE NUMBER: 0207028F
PE TITLE: Joint Expeditionary Force Experiment

	RDT&E BUDGET ITEM	DATE	February 2003								
	BUDGET ACTIVITY PE NUMBER AND TITLE 07 - Operational System Development 0207028F Joint Expeditionary Force Experiment										
	COST (\$ in Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
	Total Program Element (PE) Cost	47,732	26,558	51,367	40,155	38,615	39,286	39,346	40,198	Continuing	TBD
4373	JEFX	43,198	20,464	44,836	33,621	33,804	34,487	34,379	35,264	Continuing	TBD
4991	JDEP	4,534	6,094	6,531	6,534	4,811	4,799	4,967	4,934	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

(U) A. Mission Description

The Joint Expeditionary Force Experiments (JEFX) are large-scale warfighter experiments that address emerging operational challenges and are part of the total Air Force (AF) experimentation effort. They combine live-fly forces and simulations into an operationally representative warfighter environment. These experiments provide a vehicle for experimentation with operational concepts and attendant new technologies to evolve and transform our aerospace forces and capabilities for the 21st century. They are part of a broader effort to implement the Joint Vision 2020, exploit the Revolution in Military Affairs, demonstrate emerging Air Force capabilities to deploy and employ decisive aerospace power for the Joint Force Commander, and are important enablers of innovation and transformation.

In FY01, the Air Force moved to a biennial schedule for JEFX conducted in the even years. To reduce risk in the large scale experiments during the even years, a small scale Advanced Process and Technology Experiment (APTX) is scheduled for the odd years. These experiments will focus on specifically targeted capability requirements that will be part of the JEFX experiment. Transition of selected technologies to the warfighter will be based on a rigorous, defined process which ensures interoperability with fielded programs and maximum return on investment. Funding for transition of selected technologies is provided in the odd years only. Specific weapon system development and procurement activities are funded in their own budget lines as applicable.

A full-scale experiment was conducted in FY02. JEFX 02 explored Time Critical Targeting (TCT) and Intelligence, Surveillance and Reconnaissance (ISR) Management in a reduced footprint expeditionary CAOC environment. JEFX 02 also demonstrated the Global Strike Task Force (GSTF) concept as the service component of the joint Millennium Challenge 02.

During FY03, the JEFX Enterprise will conduct small scale experiments and seminars designed to define the architectures, technology, and concepts of operations required to achieve the JEFX 04 objectives and reduce the risk to JEFX 04 experimentation with future generation Air and Space Operations Center (AOC) Weapons

Page 1 of 15 Pages

Exhibit R-2 (PE 0207028F)

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

February 2003

BUDGET ACTIVITY

PE NUMBER AND TITLE

07 - Operational System Development

0207028F Joint Expeditionary Force Experiment

(U) A. Mission Description Continued

System and Multi-Sensor Command and Control Constellation (MC2C).

A full scale experiment will be conducted in FY04. JEFX 04 will explore the horizontal integration capabilities of the MC2C with a primary focus on the integration of an Advanced Technology Air Operations Center (AT-AOC) and Advanced Technology Distributed Ground System with Command and Control, Intelligence, Surveillance, Reconnaissance (C2ISR) enabling capabilities of the Multi-Sensor Command and Control Aircraft (MC2A), Family of Interoperable Operational Pictures, Battle Control System, Persistent Battlespace ISR, and the Deployable Theater Information Grid. This future architecture will be designed to achieve C2ISR capabilities required to support GSTF and C2ISR concepts of operations. Those requisite C2ISR capabilities include Effects-Based Operations, Horizontal & Vertical Integration, Dynamic Engagement Control, Predictive Battlespace Awareness, Global Battlespace Visualization, Networked On-Demand Information, and Persistent Battlespace ISR. JEFX 04 will provide a warfighting environment through an operational scenario designed to achieve the objectives of the GSTF.

The Joint Distributed Engineering Plant (JDEP) connects combat system engineering sites and replicates Joint Force Combat Systems to create a network testbed to assess joint Battle Management, Command, Control, Communication, Computers and Intelligence (BMC4I). Its objective is to improve interoperability of weapons systems and platforms through more rigorous interoperability evaluation in a replicated battlefield environment. JDEP will provide the capability both to improve service and joint systems performance in a system-of-systems environment.

JDEP will link existing service and joint combat system engineering and test sites, such as C4I hardware in-the-loop and computer-program in-the-loop engineering sites (including design activities, software support activities, test and evaluation facilities and training commands) located around the country.

(U) B. Budget Activity Justification

This program is Budget Activity 7 because it provides a vehicle for developers, testers and warfighters to experiment, analyze, and explore operational concepts and new technologies to enhance operational system developments and improve capabilities of the 21st century aerospace force.

(U) <u>C. Program Change Summary (\$ in Thousands)</u>

ı		<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Total Cost</u>
(U)	Previous President's Budget	44,005	27,161	51,367	
(U)	Appropriated Value	44,005	27,161		
(U)	Adjustments to Appropriated Value				
l	a. Congressional/General Reductions	-441	-335		
	b. Small Business Innovative Research	-1,202			
	c. Omnibus or Other Above Threshold Reprogram		-268		

Page 2 of 15 Pages

Exhibit R-2 (PE 0207028F)

RDT&E BUDGET ITEM JUSTII	FICATION SHEET (R-2 Exhib	oit)	DATE February 2003		
DGET ACTIVITY ' - Operational System Development	PE NUMBER AND TITLE 0207028F Joint Exp	peditionary Fo	orce Experiment	-	
C. Program Change Summary (\$ in Thousands) Continue					
	FY 2002	FY 2003	FY 2004	Total Co	
d. Below Threshold Reprogram	5,603				
e. Rescissions	-233				
Adjustments to Budget Years Since FY 2003 PBR Current Budget Submit/FY 2004 PBR	47,732	26,558	51,367	TE	
Current Budget Submit/1 1 2004 FBK	47,732	20,336	31,307	11	
- FY02: \$2.9M BTR received to JDEP BPAC 674991 to sup	o JEFX BPAC 674373 for Chief of Staff Air leport Requirements Traceability Management		occ minutes		
			and minutes.		

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)										y 2003
BUDGET ACTIVITY 07 - Operational System Development			UMBER AND 7028F		pedition	ary Forc	e Exper	iment	PROJECT 4373	
COST (\$ in Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
4373 JEFX	43,198	20,464	44,836	33,621	33,804	34,487	34,379	35,264	Continuing	TBD

(U) A. Mission Description

The Joint Expeditionary Force Experiments (JEFX) are large-scale warfighter experiments that address emerging operational challenges and are part of the total Air Force (AF) experimentation effort. They combine live-fly forces and simulations into an operationally representative warfighter environment. These experiments provide a vehicle for experimentation with operational concepts and attendant new technologies to evolve and transform our aerospace forces and capabilities for the 21st century. They are part of a broader effort to implement the Joint Vision 2020, exploit the Revolution in Military Affairs, demonstrate emerging Air Force capabilities to deploy and employ decisive aerospace power for the Joint Force Commander, and are important enablers of innovation and transformation.

In FY01, the Air Force moved to a biennial schedule for JEFX conducted in the even years. To reduce risk in the large scale experiments during the even years, a small scale Advanced Process and Technology Experiment (APTX) is scheduled for the odd years. These experiments will focus on specifically targeted capability requirements that will be part of the JEFX experiment. Transition of selected technologies to the warfighter will be based on a rigorous, defined process which ensures interoperability with fielded programs and maximum return on investment. Funding for transition of selected technologies is provided in the odd years only. Specific weapon system development and procurement activities are funded in their own budget lines as applicable.

A full-scale experiment was conducted in FY02. JEFX 02 explored Time Critical Targeting (TCT) and Intelligence, Surveillance and Reconnaissance (ISR) Management in a reduced footprint expeditionary CAOC environment. JEFX 02 also demonstrated the Global Strike Task Force (GSTF) concept as the service component of the joint Millennium Challenge 02.

During FY03, the JEFX Enterprise will conduct small scale experiments and seminars designed to define the architectures, technology, and concepts of operations required to achieve the JEFX 04 objectives and reduce the risk to JEFX 04 experimentation with future generation Air and Space Operations Center (AOC) Weapons System and Multi-Sensor Command and Control Constellation (MC2C).

A full scale experiment will be conducted in FY04. JEFX 04 will explore the horizontal integration capabilities of the MC2C with a primary focus on the integration of an Advanced Technology Air Operations Center (AT-AOC) and Advanced Technology Distributed Ground System with command and control, intelligence, surveillance, and reconnaissance (C2ISR) enabling capabilities of the Multi-Sensor Command and Control Aircraft (MC2A), Family of Interoperable Operational Pictures, Battle Control System, Persistent Battlespace ISR, and the Deployable Theater Information Grid. This future architecture will be designed to achieve C2ISR capabilities required to support GSTF and C2ISR concepts of operations. Those requisite C2ISR capabilities include Effects-Based Operations, Horizontal & Vertical

Project 4373 Page 4 of 15 Pages Exhibit R-2A (PE 0207028F)

	RD1	T&E BUDGET ITEM JUSTIF	ICATION SHEET (R-2A Exhibit)	DATE February	2003
	GET ACTIVITY - Operational	System Development	PE NUMBER AND TITLE 0207028F Joint Expeditional	ry Force Experiment	PROJECT 4373
(U)	Integration, Dyna		space Awareness, Global Battlespace Visualization, Netwo		d Persistent
		<u>-</u>	ers, testers, and warfighters for experimentation, analysis, bilities of the 21st century aerospace forces.	operational concepts, and new tech	nnologies to
(U)	FY 2002 (\$ in Th	ousands)			
(U)	\$0	Accomplishments/Planned Programs			
(U)	\$10,301	•	v technologies and operational capabilities into the Aerospa and installed command and control (C2) center upgrades.	ace Expeditionary Force (AEF) con	ncept of
(U)	\$8,400	Developed systems architecture, system	ms engineering, and integration of initiatives into a cohesi- an experiment and not simply a demonstration or exercise		of systems and
(U)	\$7,400	Planned, designed, coordinated, asses	ised, and reported the JEFX 02 experiment. Provided experiment, communications and systems planning.		nitiative
(U)	\$17,097		on, conducted modeling and simulation (M&S), installed a	and tested the communications infr	astructure and
(U)	\$43,198	Total			
(U)	FY 2003 (\$ in Th	ousands)			
(U)	\$0	Accomplishments/Planned Programs			
(U)	\$800	Select and begin developing initiative	es to introduce new technologies and operational capabilities	es into the AEF CONOPS.	
(U)	\$3,800	1 0	s engineering, and integration of initiatives into a cohesive an experiment and not simply a demonstration or exercise		systems and
(U)	\$4,164	Plan, design, coordinate, assess, and r program management, communication	report the experiment. Provide expertise to support SPO furns and systems planning.	anctions of initiative selection, acqu	iisition,
(U)	\$1,700		, conduct M&S, install and test the communications infrast	tructure and execute the APTX 03	experiment.
(U)	\$10,000		atives and legacy systems into an integrated C2ISR baselin		
(U)	\$20,464	Total	- · · · · · · · ·	-	-
Р	roject 4373		Page 5 of 15 Pages	Exhibit R-2A (PE	0207028F)

	RDT	&E BUDGET IT	EM JUS	TIFICAT	TION SH	EET (R-	2A Exhi	bit)	DA	ATE Februa i	ry 2003
•	GET ACTIVITY - Operational S	System Developm	ent			NUMBER ANI 207028F		editionar	y Force Ex	xperiment	PROJECT 4373
(U)	A. Mission Descr	iption Continued									
(U) (U) (U)	FY 2004 (\$ in The \$0 \$12,227	ousands) Accomplishments/P Develop initiatives t	_		gies and oper	rational capat	oilities into th	ne AEF CON	OPS and deve	lop and install C	2 center
(U)	\$8,975	upgrades. Develop systems are processes is the maj		_	0	_			system of syste	ems. Integration	of systems and
(U)	\$8,400	Plan, design, coordinacquisition, program	managemen	t, communic	ations and sy	stems planni	ng.	**			
(U) (U)	\$15,234 \$44,836	Implement architect Total	ural configur	ation, condu	ct M&S, insta	all and test th	e communic	ations infrasti	ructure and exe	ecute the JEFX 0	4 experiment.
(U)	B. Project Chang - FY02: \$2.7M Bo	e Summary elow Threshold Reprogra	ımming adde	d for Chief o	f Staff direct	ed initiatives					
(U)		n Funding Summary (\$ FY 2002 Actual	in Thousand FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	<u>Total C</u>
(U) (U)	AF RDT&E Other APPN										
(U)	•	rategy Center (ESC), Hanscom tegration, and fielding o						_	•	•	or the
(U)	E. Schedule Profi	<u>le</u>				FY 2002		FY 2	<u>003</u>	<u>F</u>	<u> 7 2004</u>
(U) (U) (U) (U)	Initiative selection	for JEFX 2002 (Perform, JEFX 2002 (Performed clopment, JEFX 2002			:	3 **	4 1	. 2	3 4	1 2	3 4
P	Project 4373				Page 6 of	15 Pages				Exhibit R-2A (PE 0207028F)

	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DAT	DATE February 2003			
i .	GET ACTIVITY - Operational System Development		PE NUM	MBER AI	ND TITLE	Exped	-	ry Ford	e Exp				JECT
(U)	E. Schedule Profile Continued	1	<u>FY</u> 2	2002 3	4	1	<u>FY 2</u>	2 <u>003</u>	4	1	<u>FY</u> 2	2004 3	4
000000000000000000000000000000000000000	Conduct Spiral III Conduct Spiral III Conduct JEFX 2002 Experiments Perform Assessment, JEFX 2002 Experiments (1QFY03) Commence integration of selected initiatives (1QFY03) Call for Initiatives, APTX 03 Initiative Selection, APTX 03 Architectural Development Conduct APTX 03 Call for Initiatives, JEFX 04 Initiative Selection, JEFX 04 Architectural Development, JEFX 04 Conduct Spiral I Conduct Spiral II Conduct Spiral III Conduct JEFX 04 Experiments Perform Assessment, JEFX 04 Experiments (1QFY05) Commence integration of selected initiatives (1QFY05) Call for Initiatives, APTX 05 * Denotes completed event X Denotes planned event			* *	* * *	*	X X X	X	X		X	X X	X X X X
F	Project 4373	Page	e 7 of 15	Pages					E	Exhibit F	R-2A (P	E 0207	028F)

	RDT&E PRO	GRAM ELE	MENT/P	ROJECT C	OST BI	REAKDO	WN (R-3)		DATE F	ebruary 2	003
	ET ACTIVITY Operational System	n Developme	nt			ER AND TITLE 28F Joint I	Expedition	nary Force	Experin	nent	PROJECT 4373
(U)	A. Project Cost Breakdov	vn (\$ in Thousan	<u>ds</u>)								
								<u> 2002</u>	FY 20		FY 2004
(U)	Selection and prioritization	-	•		-		10,	,301	8	00	12,227
	initiatives by government a upgrade	and industry; C2 (Center Commu	inications and cor	nputer deve	lopment					
(U)	Development of systems ar	chitecture and int	egration, inclu	ding engineering,	for the exp	eriment	8.	,400	3,8	00	8,975
(U)	Planning, coordination, and	l assessing the exp	periment.				7.	,400	4,1	64	8,400
(U)	Implement architectural con	nfiguration, condu	act modeling a	nd simulation (M	&S), install		17,	,097	1,7	00	15,234
	infrastructure, install and te										
(U)	Integration of new initiative	es and legacy syst	ems into an int	tegrated C2ISR b	aseline. Fu	nding		0	10,0	00	
	provided in odd years only.										
(U)	Total						43,	,198	20,4	64	44,836
(U)	B. Budget Acquisition His	tory and Plannii	ng Information	n (\$ in Thousand	<u>ls</u>)						
(U)	Performing Organizations	<u>s:</u>									
	Contractor or	Contract									
	Government	Method/Type	Award or	Performing	Project						
	Performing	or Funding	Obligation	Activity	Office	Total Prior	Budget	Budget	Budget	Budget to	<u>Total</u>
	Activity	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	to FY 2002	FY 2002	FY 2003	FY 2004	Complete	<u>Program</u>
	Product Development Orga	<u>nizations</u>									
	MITRE	FFRDC	1 Oct 02	N/A	N/A	0	6,500	1,250	3,500	Continuing	TBD
	GSA	Multiple	1 Apr 03	N/A	N/A	0	5,500	1,250	2,975	Continuing	TBD
	ACS Defense	IDIQ	1 Oct 02	N/A	N/A	0	1,500	1,066	2,907	Continuing	TBD
	MIT/LL	Various	1 Apr 03	N/A	N/A	0	668				668
	Northrup	Time &	1 Jan 03	N/A	N/A	0	0	250	275	Continuing	TBD
		Material									
	Lockheed Martin	CPAF	1 Mar 03	N/A	N/A	0	0	630	4,500	Continuing	TBD
	SAF/FMBMB	MIPR	1 Feb 03	N/A	N/A	0	0	3,770	0	0	3,770
	AFRL	MIPR	1 Apr 03	N/A	N/A	0	0	315	0	0	315
	AFSOC	MIPR	1 Apr 03	N/A	N/A	0	0	140	0	0	140
Pi	roject 4373			Page	e 8 of 15 Pa	iges			Exhi	bit R-3 (PE 0)207028F)

	RDT&E PRO	ONAW LLL		OJECT			VIV (IX-3)		Г	ebruary 2	
	ET ACTIVITY	. .			PE NUMBER A			_		_	PROJECT
- (Operational Syster	n Developme	ent		0207028F	Joint E	xpeditionar	y Force	Experin	nent	4373
) <u>I</u>	Performing Organization	s Continued:									
I	Product Development Orga	anizations									
	ASC/RAB	MIPR	1 Apr 03	N/A	N/A	0	0	800	0	0	8
	CITPAD	Time &	1 Jan 04	N/A	N/A	0	0	0	807	0	8
		Material									
	Logicon	Time &	1 Jan 04	N/A	N/A	0	0	0	435	0	4
		Material									
	General Dynamics	Time &	1 Jan 04	N/A	N/A	0	0	0	290	0	2
		Material									
	SPO/Other	MIPR	1 Apr 03	N/A	N/A	0	6,154	4,630	7,311	Continuing	T
	L3 Comm	GSA	1 Dec 02	N/A	N/A	0	1,000	1,000	1,000	Continuing	T
	Sverdrup	GSA	1 Oct 02	N/A	N/A	0	300	300	300	Continuing	T
	ΓRW	GSA	1 Oct 02	N/A	N/A	0	250	0	270	Continuing	T
A	AFC2TIG	MIPR	1 Feb 03	N/A	N/A	0	8,630	0	8,777	Continuing	T
A	Alion	GSA	1 Dec 02	N/A	N/A	0	1,811	1,724	1,811	Continuing	T
A	ACS Defense	GSA	1 Dec 02	N/A	N/A	0	499	475	475	Continuing	T
S	SAIC	GSA	1 Dec 02	N/A	N/A	0	959	814	970	Continuing	T
I	L3 Comm	GSA	1 Dec 02	N/A	N/A	0	961	961	1,037	Continuing	T
7	ΓRW	GSA	1 Dec 02	N/A	N/A	0	287	287	300	Continuing	T
7	Various	Various	1 Dec 02	N/A	N/A	0	7,218	257	5,876	Continuing	T
7	Zel Tech	GSA	1 Dec 02	N/A	N/A	0	220	220	220	Continuing	T
5	Support and Management	Organizations									
I	Information Technology	Time &	1 Apr 02	N/A	N/A	0	416	325	450	Continuing	T
S	Services Program	Materials	_								
	<u> Γest and Evaluation Organ</u>	izations									
]	46th Test Squadron	Project Order	1 Mar 02	N/A	N/A	0	325	0	350	Continuing	T

RDT&E PROGRAM ELEMENT/PI	RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								
BUDGET ACTIVITY	PE NUMBER AND TITLE					PROJECT			
07 - Operational System Development	0207028F Joint B	Expedition	nary Force	Experim	ent	4373			
	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	Budget to	<u>Total</u>			
<u>Subtotals</u>	<u>to FY 2002</u>	FY 2002	FY 2003	FY 2004	Complete	<u>Program</u>			
Subtotal Product Development	0	42,457	20,139	44,036	TBD	TBD			
Subtotal Support and Management	0	416	325	450	TBD	TBD			
Subtotal Test and Evaluation	0	325	0	350	TBD	TBD			
Total Project	0	43,198	20,464	44,836	TBD	TBD			
Project 4373	Page 10 of 15 Pages			Exhih	it R-3 (PE 0	207028F)			

RDT&E BUDGET ITEN	I JUSTIF	FICATIO	ON SHE	ET (R-	2A Exh	ibit)		DATE	February	y 2003
BUDGET ACTIVITY <mark>07 - Operational System Development</mark>			=	IUMBER ANI)7028F •	D TITLE Joint Ex	pedition	ary Forc	e Exper	iment	PROJECT 4991
COST (\$ in Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
4991 JDEP	4,534	6,094	6,531	6,534	4,811	4,799	4,967	4,934	Continuing	ТВ
NOTE: FY02 was the first year of Joint Distributed	,			<u> </u>	,-	,	4,967	4,934	Continuing	

(U) A. Mission Description

The Joint Distributed Engineering Plant (JDEP) connects combat system engineering sites and replicates Joint Force Combat Systems to create a network test bed to assess joint Battle Management, Command, Control, Communication, Computers and Intelligence. It's objective is to improve interoperability of weapons systems and platforms through more rigorous interoperability evaluation in a replicated battlefield environment. JDEP will provide the capability both to improve service and joint system performance in a system-of-systems environment.

JDEP will link existing Service and Joint combat system engineering and test sites, such as C4I hardware in the loop and computer-program-in-the-loop engineering sites (including Design Activities, software support activities, test & evaluation facilities and training commands) located around the country.

This project is BA 7 because it provides a vehicle to developers, testers, and warfighters for experimentation, analysis, operational concepts, and new technologies to enhance operational system developments and improve capabilities of the 21st century aerospace forces.

(U) FY 2002 (\$ in Thousands)

(U) \$0	Accomplishments/Planned Programs	
(U) \$1,495	Site activation and Ops support: JDEP leverages as much as possible the existing infrastructure at s	sites throughout DoD to connect combat
	system engineering sites to emulate tactical data links. It builds on a federation of sites that are act	ivated expanding on the current sites and
	identifying which ones should be activated in the future. This process gives geographically separate	ted C2 centers and program offices the ability
	to work interoperability issues early in the acquisition process. There are 3-programmed AF sites s	scheduled to be activated. This includes
	hardware, software and activation cost for each site.	
(U) \$827	Communication architectures, links and engineering and support for site activities. This includes h	ardware, software and network connections
	for each site activated. It incorporates configuration management, scheduling, development & imp	elementation of communications architectures.
	This will support distributed hardware, software and warfighter-in-the-loop joint integration activit	-
	facilities, which allows a repeatable environment to be readily available to developers, engineers as	nd warfighters.
(U) \$590	Existing JDEP support activities. This includes ops and maintenance of the current sites, which are	e JDEP capable. This includes ops &
	maintenance support along with contracted personnel to assist in event activities.	
D :	D 44 645 D	E 1 11 11 D 04 (DE 0007000E)
Project 4991	Page 11 of 15 Pages	Exhibit R-2A (PE 0207028F)

	RDT	RE BUDGET ITEM JUSTIFICA	ATION SHEET (R-2A Exhibit)	DATE February 2003
	GET ACTIVITY Operational S	ystem Development	PE NUMBER AND TITLE 0207028F Joint Expeditionary F	PROJECT Force Experiment 4991
U)	A. Mission Descri	otion Continued		
U)	FY 2002 (\$ in Tho	usands) Continued		
U)	\$295	÷	integration, including engineering, for the JDEP repeatable lation environments to support integration & interoperabili solutions.	
U)	\$800		o participant in various events during pre, during and post oring problems and assistance in system solutions.	exercise events. It includes support staff
U)	\$527		environment for JDEP events. This incorporates the simula	ation of an environment that allows
U)	\$4,534	Total		
U)	FY 2003 (\$ in Tho	ısands)		
Ú)	\$0	Accomplishments/Planned Programs		
U)	\$1,806	Continue site activations and Operations s	upport. This includes hardware, software and activation co	ost for each site.
J)	\$1,068	Continue communication architectures, lin	ks and engineering and support for site activities.	
U)	\$1,275	Continue existing JDEP support activities	to include ops & maintenance support along with contracte	ed personnel to assist in event activities.
U)	\$490	Continue development of systems architec	ture and integration, including engineering, for the JDEP re	epeatable environment.
U)	\$1,240	Continue experiment implementation and	analysis to participant in various events during pre, during	and post exercise events.
U)	\$215	Continue development of a simulation/stin	nulation environment for JDEP events.	
J)	\$6,094	Total		
U)	FY 2004 (\$ in Thor	usands)		
U)	\$0	Accomplishments/Planned Programs		
U)	\$1,973	Continue site activations and Operations s	upport. This includes hardware, software and activation co	ost for each site.
U)	\$1,318	Continue communication architectures, lin	iks and engineering and support for site activities.	
J)	\$1,275	Continue existing JDEP support activities	to include ops & maintenance support along with contracte	ed personnel to assist in event activities.
J)	\$490	Continue development of systems architec	ture and integration, including engineering, for the JDEP re	epeatable environment.
J)	\$1,163	Continue experiment implementation and	analysis to participant in various events during pre, during	and post exercise events.
J)	\$312	Continue development of a simulation/stin	nulation environment for JDEP events.	
J)	\$6,531	Total		
_	roject 4991		Page 12 of 15 Pages	Exhibit R-2A (PE 0207028I

	RDT&E BUD	GET IT	EM JUS	TIFICAT	ION S	HEI	ET (R-:	2A Ex	hib	it)		DAT		bruary	2003	3
	et activity Operational System De	velopm	ent				JMBER AND 7028F •		хре	ditionar	y For	ce Ex	perime	ent	PRO 49 9	JECT 91
(U)	B. Project Change Summary Not Applicable.															
(U)	C. Other Program Funding Su	mmary (\$	in Thousand	ls)												
		FY 2002	FY 2003	FY 2004	FY 2005	<u> </u>	FY 2006	FY 200)7	FY 2008	FY 20	009	Cos	t to	<u>T</u>	otal Cost
\ /	AF RDT&E Other APPN	Actual	<u>Estimate</u>	<u>Estimate</u>	Estimat	e i	<u>Estimate</u>	Estima	<u>ite</u>	Estimate	<u>Estin</u>	<u>nate</u>	Comp	<u>olete</u>		
(0)	N/A															
	D. Acquisition Strategy Acquisition Strategy: Electronic and site activation activities for a for system integration, developm	ll Air Force	e JDEP activi	ities. JDEP v			-	-		-	-		-		_	
(U)	E. Schedule Profile															
						<u>FY</u>	2002			FY 20	003			FY 2	<u> 2004</u>	
					1	2	3	4	1	2	3	4	1	2	3	4
· /	Event Planning				*											
	Conduct SIAP Interoperability E					*								X		
(U)	Implement JDEP connectivity at		and other Air	Force sites.			*			X					X	
	Conduct PAC3 IOT&E (Extende	*					*	*							37	
	Conduct TACMEMO Interopera Track 2 Event	bility Even	t					*							X	
. /	CAAD Event (Phase II)							*			X					
. /	JCMD Event										Λ	X				
(-)	CAAD Event (Phase III)											Λ		X		
(0)	X - planned													11		
	* - completed															
P	roject 4991				Page 13	of 1:	5 Pages						Exhihit F	R-2A (P	E 0207	028F)

	RDT&E PRO	OGRAM ELI	EMENT/P	ROJECT C	OST BI	REAKDO	WN (R-3))	DATE F	ebruary 2	2003
	GET ACTIVITY Operational Syste	m Developme	ent			ER AND TITLE 28F Joint I	Expedition	nary Force	Experin	nent	PROJECT 4991
(U)	A. Project Cost Breakdo	own (\$ in Thousar	<u>ıds</u>)								
							<u>FY</u>	<u> 2002</u>	FY 20	003	FY 2004
(U)	Site Activation and Ops s	* *					1	,495	1,8	06	1,973
(U)	Communication architect	ures, links, and eng	gineering suppo	ort				827	1,0	68	1,318
(U)	Existing JDEP support ac	ctivities						590	1,2	75	1,275
(U)	Development of systems	architecture and in	tegration for JI	DEP repeatable env	vironment			295	4	90	490
(U)	Experiment implementati	on and analysis to	participants					800	1,2	40	1,163
(U)	Development of a simula	tion/stimulation en	vironment for J	DEP events				527	2	15	312
(U)	Total						4	,534	6,0	94	6,531
(U)	B. Budget Acquisition H	listory and Planni	ng Informatio	n (\$ in Thousand	<u>s</u>)						
(U)	Performing Organizatio	ons:									
, ,	Contractor or	Contract									
	Government	Method/Type	Award or	Performing	Project						
	Performing	or Funding	Obligation	Activity	Office	Total Prior	Budget	Budget	Budget	Budget to	Total
	Activity	Vehicle	Date	EAC	EAC	to FY 2002	FY 2002	FY 2003	FY 2004	Complete	
	Product Development Org	ganizations								•	
	Support and Management	Organizations									
	ESC	MIPR	1 Oct 01	N/A	N/A	0	1,090	319	350	Continuing	TBD
	ESC	Various	Various	N/A	N/A	0	150	0	0	Continuing	
	Boeing	Various	Various	N/A	N/A	0	350	350	350	Continuing	
	Northrop Grumman	T&M	15 Dec 02	N/A	N/A	0	0	50	200	Continuing	
	ESC	Various	Various	N/A	N/A	0	500	0	0	Continuing	
	DISA	MIPR	1 Oct 01	N/A	N/A	0	650	1,068	1,218	Continuing	
	ASC	ITSP	1 Oct 01	N/A	N/A	0	590	768	790	Continuing	
	MITRE	FFRDC	1 Oct 01	N/A	N/A	0	470	660	675	Continuing	
	DARPA/DISA	MIPR	1 Dec 01	N/A	N/A	0	150	2,090	2,090	Continuing	
	RAYTHEON	CPFF	1 Dec 01	N/A	N/A	0	160	215	315	Continuing	
	ESC	Various	Various	N/A	N/A	0	100	0	0	Continuing	
	ESC	Various	Various	N/A	N/A	0	324	416	383	Continuing	
_	rain at 4004			D	14 .C15 D				□ , .l. :1	►:+ D 2 /D⊏ /	2207020E\
<u> </u>	roject 4991			Page	14 of 15 Pa	iges			EXNI	bit R-3 (PE (J207028F)

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3) PATE February 2003												
JDGET ACTIVITY 7 - Operational System Development		BER AND TITLE 28F Joint E	xpedition	ary Force	Experim	ent	PROJECT 4991					
		28F Joint E	0 Budget FY 2002 4,534 0 4,534	158 Budget FY 2003 5,936 158 6,094	160 <u>Budget</u> <u>FY 2004</u> 6,371 160 6,531	Continuing Budget to Complete TBD TBD TBD	4991 TE					
Project 4991	Page 15 of 15 l					oit R-3 (PE 0						