PE NUMBER: 0604617F PE TITLE: Agile Combat Support

	RDT&E BUDGET ITEM	DATE	DATE June 2001											
•	PE NUMBER AND TITLE 05 - Engineering and Manufacturing Development 0604617F Agile Combat Support													
	COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost			
	Total Program Element (PE) Cost	0	3,383	6,674	6,333	6,436	6,545	6,525	7,103	Continuing	TBD			
2895	CE Readiness	0	3,383	5,370	5,641	5,760	5,877	6,243	6,815	Continuing	TBD			
4910	Aeromedical Readiness	0	0	1,304	692	676	668	282	288	Continuing	TBD			
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0			

The FY03-FY07 budget numbers do not reflect DoD's strategic review results.

(U) A. Mission Description

This Program Element (PE) provides capabilities to rapidly deploy, defend and sustain airfield operations and command and control activities to ensure readiness. In addition, this PE provides tactical, strategic aeromedical evacuation systems, automated information systems, and medical treatment equipment to meet unique Air Force medical readiness and operational requirements. These activities are prerequisites to establishing air superiority. Development of the Agile Combat Support (ACS) systems provides beddown for aircraft, support equipment, and forces at both main operating bases and contingency operating locations, which may have only a runway and a water source. They also offer crucial utilities, runway stabilization and repair, explosive ordnance disposal (EOD), aeromedical evacuation and treatment equipment, and security and reconnaissance capabilities to support aircraft deployment, launch, recovery and regeneration. Lighter-weight, rapidly deployable equipment has become essential in supporting numerous global contingencies such as DESERT SHIELD/DESERT STORM, Provide Comfort, Restore Hope, and Joint Endeavor for security, base defense, relief efforts, and special operations throughout the world. Specific ACS capabilities being developed include: power generation and distribution systems to reduce airlift; deployable medical grade oxygen generation systems; a family of deployable shelters to be used as aircraft hangars, maintenance facilities, heavy equipment storage, C4I operations, medical and personnel shelters; systems to repair runway damage; and Joint Service (Army-led) test, evaluation and acquisition of protective systems and equipment to be used by Air Force EOD technicians for reconnaissance and mine clearing missions.

(U) B. Budget Activity Justification

The Agile Combat Support program is in RDT&E budget activity 5 - Engineering and Manufacturing Development (EMD) because it supports development, testing and evaluation of materials and equipment for contingency basing, detection and handling of explosive ordnance, and tactical shelters.

Page 1 of 12 Pages

Exhibit R-2 (PE 0604617F)

	RDT&E BUDGET ITEM JUSTIFICAT	_{DATE} Jun	e 2001		
	GET ACTIVITY • Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604617F Agile Co			
(U)	C. Program Change Summary (\$ in Thousands)				,
		<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	Total Co
U)	Previous President's Budget (FY 2001 PBR)	946	668	0	TB
U)	Appropriated Value	0	3,414		
J)	Adjustments to Appropriated Value				
	a. Congressional/General Reductions		-24		
	b. Small Business Innovative Research				
	c. Omnibus or Other Above Threshold Reprogram				
	d. Below Threshold Reprogram				
	e. Rescissions		-7		
J)	Adjustments to Budget Years Since FY 2001 PBR			6,674	
J)	Current Budget Submit/FY 2002 PBR	0	3,383	6,674	TE
	in FY02. This meets the intent of House action to eliminate smaller PF. The following net transactions are not reflected in the FY01 program to	-			
		Page 2 of 12 Pages			2 (PE 0604617F

RDT&E BUDGET ITEM	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)												
BUDGET ACTIVITY 05 - Engineering and Manufacturing De	ent		UMBER AND 4617F	TITLE Agile Co			PROJECT 2895						
COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost			
2895 CE Readiness	0	3,383	5,370	5,641	5,760	5,877	6,243	6,815	Continuing	TBD			

The Air Force consolidated three Civil Engineer (CE) readiness R&D programs (PE64617F - Agile Combat Support; PE64708F - Civil, Fire, Environmental, Shelters; and the RDT&E portion of PE28031F - War Reserve Material) under PE 64617F, Project 2895. PE 64708F consolidation is effective FY01. PE 28031F RDT&E consolidation is effective FY02. This will meet the intent of the House action to eliminate smaller PEs and provide a more cohesive, manageable CE Readiness modernization effort.

The FY03-FY07 budget numbers do not reflect DoD's strategic review results.

(U) A. Mission Description

This Program Element (PE) provides capabilities to rapidly deploy, defend and sustain airfield operations and command and control activities to ensure readiness. These activities are prerequisites to establishing air superiority. Development of the Agile Combat Support (ACS) systems provides beddown for aircraft, support equipment, and forces at both main operating bases and contingency operating locations, which may have only a runway and a water source. They also offer crucial utilities, runway stabilization and repair, explosive ordnance disposal (EOD), and security and reconnaissance capabilities to support aircraft deployment, launch, recovery and regeneration. Lighter-weight, rapidly deployable equipment has become essential in supporting numerous global contingencies such as DESERT SHIELD/DESERT STORM, Provide Comfort, Restore Hope, and Joint Endeavor for security, base defense, relief efforts, and special operations throughout the world. Specific ACS capabilities being developed include: power generation and distribution systems to reduce airlift; a family of deployable shelters to be used as aircraft hangars, maintenance facilities, heavy equipment storage, C4I operations, medical and personnel shelters; systems to repair runway damage; and Joint Service (Army-led) test, evaluation and acquisition of protective systems and equipment to be used by Air Force EOD technicians for reconnaissance and mine clearing missions.

(U)	FY 2000 ((\$ in Thousands)
-----	-----------	------------------	---

	l	(\mathbf{U})) \$0	No Activity
--	---	----------------	-------	-------------

(U) \$0 Total

(U) FY 2001 (\$ in Thousands)

(U) \$531	Complete EMD for All-purpose Remote Transport System (ARTS) FY99-01 attachments to locate, analyze, and render safe unexploded ordnand	:е
	and terrorist bombs.	ı

(U) \$1,685 Continue courseware development for Multimedia Training Systems (MTS) courseware for aircraft familiarization, hazardous material, confined

space rescue, emergency medical technician, and force protection programs.

(U) \$210 Continue Commercial Technology Exploitation (CTE) for low cost civil engineering-related equipment.

(U) \$185 Complete development of composite tactical shelter and methods to evaluate shelter performance.

Project 2895 Page 3 of 12 Pages Exhibit R-2A (PE 0604617F)

	RDT&E BU	DGET ITI	EM JUS	TIFICAT	ION SH	EET (R-	2A Exhi	bit)]	June 2	2001
	GET ACTIVITY Engineering and Man	ufacturing	g Develop	ment		NUMBER AND 04617F		nbat Sup	port		PROJECT 2895
(U)	A. Mission Description Con	inued									,
(U) (U) (U) (U)	\$480 Initiate	ue other techn System Deve capability for s are not reflect	lopment and the ARTS.							em to provide cruci ot reflected in other	-
(U) (U) (U) (U) (U) (U) (U) (U)	\$1,020 Initiate \$260 Comple \$120 Initiate \$1,690 Contine \$680 Contine \$865 Contine \$5,370 Total B. Project Change Summary	-	FS Manipulat Deployable Po htweight Mat fultimedia Tr dommercial T nical Suppor	or Arms. ower Genera tting for runy raining Syste echnology E	tion and Dist ways and con ms (MTS) xploitation (tingency airc).			
(U)	Activities formerly funded in C. Other Program Funding S Other Procurement, AF, PE				FY 2003 Estimate 26,809	FY 2004 Estimate 20,148	FY 2005 Estimate 19,348	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete Continuing	<u>Total Co</u>
(U)	28031F, Other Base and Maintenance Support, Mobility Equipment (WSC 845420) Other Procurement, AF, PE	4,378	1,838	0	0	0	0			0	ТВІ
P	roject 2895				Page 4 of	12 Pages				Exhibit R-2A (P	PE 0604617F)

	RDT&E BUDGET ITEM JUSTIFI	CATION S	SHEET (F	R-2A Ext	nibit)		DATE J	June 2	001
	GET ACTIVITY - Engineering and Manufacturing Developmer	nt	PE NUMBER A		ombat Sup	port			PROJECT 2895
(U)		2002 FY 200 imate Estima				FY 2007 Estimate	<u>Cos</u> <u>Com</u> p		Total Cost
(U)	D. Acquisition Strategy Many of the projects funded in this PE employ a streamlined ac evaluated as candidates for solutions to user needs. This norm properly adapted for military purposes. The Bare Base System Bare Base assets, such as deployable shelters, power, waste treatist realigned from current product lines to support modernization and evaluation culminating in a Milestone III production decision.	ally involves ches Readiness Boatment and airfin of assets. Init	aracterization ard evaluates eld support sy	, verification aboratory and stems. With	and qualificati d commercial t board approva	ion testing to e technologies w ll, the SPO init	ensure off-tl vith applicatiates EMD	he-shelf tion for a and pro	equipment is modernization of duction funding
(U)	E. Schedule Profile		FY 2000		EX.	2001		EX	2002
		1	2 3	4	1 2	3 4	1	2	3 4
(U) (U) (U) (U) (U) (U) (U)	ALL-PURPOSE REMOTE TRANSPORT SYSTEM II Award FY00 Production Option (Production Funds) Complete test of FY01 ARTS tools ARTS ALTERNATE CONTROL SYSTEM Prepare RFP Milestone B Decision Initiate OT&E			*		X X			X
(U) (U) (U) (U) (U)	ARTS MANIPULATOR ARMS Prepare RFP Milestone B Decision Initiate OT&E DEPLOYABLE POWER GENERATION AND DISTRIBUTION	ON					X	X	X
_ P	Project 2895	Page :	5 of 12 Pages				Exhibit F	R-2A (P	E 0604617F)

	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)											DATE June 2001				
	BUDGET ACTIVITY 05 - Engineering and Manufacturing Development PE NUMBER AND TITLE 0604617F Agile Combat											PRO 289	JECT)5			
(U)	E. Schedule Profile Continued SYSTEM Complete System Requirements and Fix Verifications from OT&E Milestone B Decision DEPLOYABLE LIGHTWEIGHT MATTING	1	<u>FY</u> 2	<u>7 2000</u> 3	4	1	<u>FY</u> 2	200 <u>1</u> 3	4	1 X	FY 2	2 <u>002</u> 3	4			
(U) (U) (U) (U) (U) (U) (U)	Prepare RFP Milestone B Decision Initiate OT&E MULTIMEDIA TRAINING SYSTEMS (MTS) Complete FY01 Priority List Complete FY02 Priority List COMMERCIAL TECHNOLOGY EXPLOITATION (CTE)								X		X	X	X X			
(U) (U) (U) (U) (U)	Complete FY01 AFOTEC Evaluation Complete FY02 AFOTEC Evaluation TACTICAL SHELTERS Complete development								X	X			X			
P	Project 2895	Pag	ge 6 of 12	2 Pages					[Exhibit I	R-2A (P	E 06046	617F)			

	RDT&E PROG	DATE June 2001									
	ET ACTIVITY Engineering and Man	ufacturing	Developm	nent		ER AND TITLE I 7F Agile (Combat Si	upport			PROJECT 2895
(U)	A. Project Cost Breakdown	(\$ in Thousand	ds)								
							<u>FY 2</u>	<u> 2000</u>	FY 20		FY 2002
(U)	Contracts							0	1,8		2,475
(U)	Administrative and &Analyt	tic Support (A&	&AS)					0	6	96	1,360
(U)	Other Government Agencies	3						0	50	00	565
(U)	Materials/Equipment							0		0	105
(U)	Other Technical Support							0	25	92	865
(U)	Total							0	3,3	83	5,370
(U)	B. Budget Acquisition Histor	y and Plannin	g Information	n (\$ in Thousand	<u>ls)</u>						
(U)	Performing Organizations:										
, ,	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	Vehicle	Date	EAC	EAC	to FY 2000	FY 2000	FY 2001	FY 2002	Complete	Program
	Product Development Organiz	ations								•	
	ARTS/Attachments	A&AS	Feb 98	2,800	2,800	820	0	531	0	0	1,351
	ARTS Alternate Control	FFP	Dec 01	1,600	1,600	0	0	480	735	140	1,355
	ARTS Manipulator Arms	FFP	Mar 02	1,933	1,933	0	0	0	1,020	500	1,520
	Deployable Power Generation	FFP	Apr 98	2,238	2,238	0	0	0	260	0	260
	and Distribution System		1	,	,						
	-	FFP	Feb 03	1,673	1,673	0	0	0	120	1,600	1,720
	Multimedia Training Systems		Cont	14,500	14,500	4,459	0	1,685	1,690	4,558	12,392
	(MTS)			,	,	,		,	,	,	,
	` /	FFP	Cont	N/A	N/A	410	0	210	680	Continuing	TBD
	Exploitation (CTE)						~				2
	* '	AF Form 616	N/A	N/A	N/A	0	0	185	0	0	185
		Misc	Misc	N/A	N/A	0	0	292	865	Continuing	TBD
	Support and Management Org			- ·· - 2		3	,	-			-32
	None.										
_				_							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Pi	roject 2895			Page	e 7 of 12 Pa	ges			Exhil	bit R-3 (PE ()604617F)

	RDT&E PROGR	DATE June 2001									
	GET ACTIVITY - Engineering and Manuf	facturing	Developr	nent		er and title I 7F Agile (Combat S	upport			ROJECT 2 895
(U)	Test and Evaluation Organization	•	Various	N/A	N/A	0	0	0	0	Continuing	TBD
(U)	Item or	ontract (ethod/Type Funding ehicle	Award or Obligation Date	Delivery Date		Total Prior to FY 2000	Budget FY 2000	Budget FY 2001	Budget FY 2002	Budget to Complete	<u>Total</u> <u>Program</u>
	None Subtotals *					Total Prior to FY 2000	Budget FY 2000	Budget FY 2001	Budget FY 2002	Budget to Complete	<u>Total</u> <u>Program</u>
	Subtotal Product Development Subtotal Support and Manageme Subtotal Test and Evaluation Total Project * Basket Program Element wit		of projects, p	rior years breakou	ut not availab	5,689 0 5,689 ble.	0 0 0	3,383 0 3,383	5,370 0 5,370	TBD TBD TBD	TBD TBD TBD
	Project 2895			Pag	ge 8 of 12 Pa	gas			Evhih	oit R-3 (PE 06	04617E)

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit) DATE June 2001													
	SET ACTIVITY Engineering an	d Manufacturing De	velopme	ent		UMBER AND 4617F		mbat Su	pport			PROJECT 4910	
	COST (\$ in ⁻	Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost	
4910	Aeromedical Readin	iess	0	0	1,304	692	676	668	282	288	Continuing	TBD	
This BPAC was created when funds in PE64703, Aeromedical Systems Development, were consolidated into PE 64617 per House Appropriations Committee guidance.													
FY03-FY07 budget numbers do not reflect DoD's strategic review results.													
(U) A. Mission Description This program provides tactical and strategic aeromedical evacuation systems, automated information systems, and medical treatment equipment to meet unique Air Force medical readiness and operational requirements													
(U) (U) (U)	FY 2000 (\$ in Thous: \$0 \$0	<u>ands)</u> No Activity Total											
(U) (U) (U)	FY 2001 (\$ in Thous: \$0 \$0	ands) No Activity Total											
(U) (U)	FY 2002 (\$ in Thous: \$340	ands) Deployable Oxygen Syster Continue market research a		-		-			• •	elopment; c	conduct test	and evaluation.	
(U) (U) (U)	\$10 \$20 \$5	Theater Medical Informatic Spinal Cord Injury Transpo Chemically Hardened Air	on Program ort System	- Air Force (SCITS) - T	e (TMIP-AI Travel suppo	F) - OT&E j	preparation action phase	, technology e of program	y refresh, aı n.	-	•		
(U)	support for production. U) \$200 Aeromedical Systems Analysis - Conduct foundational studies and analyses, requirements analyses, and product demonstrations to meet operational needs, and define acquisition strategies and baselines for potential system solutions to Air Force Medical Service materiel needs. Current projects include, but are not limited to, Patient Support Pallets (PSP), Collective Protected Expeditionary Medical Support (CP EMEDS), Latrine, Airborne Command and Control - Information for Global Reach, and Telemedicine.												
(U)	\$562	Provide Technical Enginee	ring and M	anagement	Support to	Aeromedic	al programs	S.					
Р	roject 4910				Page 9 of 1	2 Pages				Exh	ibit R-2A (F	PE 0604617F)	

	RDT&E BUDGET IT	EM JUS	TIFICAT	ION SH	EET (R-2	2A Exhil	bit)		DATE	June 2	001	
	GET ACTIVITY Engineering and Manufacturing		PE NUMBER AND TITLE 0604617F Agile Combat Support					PROJECT 4910				
(U)	A. Mission Description Continued											
(U) (U) (U)	FY 2002 (\$ in Thousands) Continued \$167 Provide support for to future EMD efforts. \$1,304 Total	he Human Sy	stems Cente	er, System Pr	ogram Office	. Begin trans	ition from re	search and e	explore pote	ntial tech	nologie	s for
(U)	B. Project Change Summary Program costs changed due to the following - DOS program costs increased to support to - SCITS funding required for travel support - Human Systems Center, System Program	est and evaluated during the property	roduction ph	ase of the pro	ogram.	oport task tra	nsferred to A	.eromedical	Systems An	alysis pro	ogram.	
(U)	C. Other Program Funding Summary (\$ FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007		st to	<u>T</u>	otal Cost
(U) (U)	AF RDT&E Other APPN APPN is 3080 OPAF - PE 28038	<u>Estimate</u> 17,025	<u>Estimate</u> 15,435	<u>Estimate</u> 13,899	<u>Estimate</u> 14,279	<u>Estimate</u> 14,581	<u>Estimate</u> 15,200	Estimate 15,504	Comp Continu	· · · ·		TBD
(U)	D. Acquisition Strategy All major projects are awarded under full an	d open comp	etition.									
	E. Schedule Profile			1 2	<u>FY 2000</u> 2 3	4 1	<u>FY 2</u> 2	001 3	4 1	<u>FY 2</u>	2 <u>002</u> 3	4
(U) (U) (U)	DEPLOYABLE OXYGEN SYSTEM -FDA Approval -Conduct Test and Evaluation SPINAL CORD INJURY TRANSPORT SY	YS								X	X	
(U) P	-Complete Production roject 4910			Page 10 o	f 12 Pages				Exhibit	R-2A (PI	X E 06040	617F)_

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)									DATE June 2001			
	SUDGET ACTIVITY 05 - Engineering and Manufacturing Development					PE NUMBER AND TITLE 0604617F Agile Combat Support				PROJEC 4910		
(U)	A. Project Cost Breakdo	wn (\$ in Thousan	ds)					2000	EV. 04	201	EW 2002	
(U) (U) (U) (U) (U) (U)	Engineering and Manufact Development/Operational Contractor Engineering Su Miscellaneous (System Pr Mission Support/Supplies Total	FY 2000			FY 2001		FY 2002 210 265 562 167 100 1,304					
(U)	B. Budget Acquisition Hi	story and Plannin	g Informatio	n (\$ in Thousand	<u>ls)</u>							
(U)	Performing Organization Contractor or	<u>s:</u> 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>	EAC	<u>EAC</u>	to FY 2000	FY 2000	FY 2001	FY 2002	Complete	Program	
	Product Development Org	<u>anizations</u>										
	DOS	FFP	Apr 01	2,770	2,770	0			75	Continuing	TBD	
	New Business	Various	Various			17,477			200	Continuing		
	SCITS	CPIF	Jul 98	3,009	3,009				20	Continuing		
	CHATH/CHAMP	CPFF	Aug 95	3,859	3,859	3,609			5	Continuing		
	TMIP/AF	Various	Various	4,278	4,278	1,758			10	Continuing	TBD	
	Support and Management	•										
	TEAMS	Delivery Orde				3,061			562	Continuing	TBD	
	SPO Operations	Various	Various			3,767			167	Continuing	TBD	
	Test and Evaluation Organ	nizations				4.40				~		
	Other					140			265	Continuing	TBD	
P	roject 4910			Page	11 of 12 Pa	nges			Exhi	bit R-3 (PE 0)604617F)	

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE June 2001			
	ET ACTIVITY Engineering and Manufacturing Development				BER AND TITLE	PROJECT 4910					
	Item Description Product Development Proper None. Support and Management Pr None. Test and Evaluation Property None. Subtotals Subtotal Product Developme Subtotal Product Developme Subtotal Test and Evaluation Total Project	operty: Contract Method/Type or Funding Vehicle rty operty		Delivery Date	00040	Total Prior to FY 2000 22,844 6,828 140 29,812	Budget FY 2000 Budget FY 2000	Budget FY 2001 Budget FY 2001	Budget FY 2002 310 729 265 1,304	Budget to Complete TBD TBD TBD TBD	Total Program TBD TBD TBD TBD TBD
F	Project 4910				Page 12 of 12 Of 12 Page 12 Of 1	ages			Exhib	it R-3 (PE 06	04617F)