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PE NUMBER: 0604617F
 PE TITLE: Agile Combat Support

Exhibit R-2, RDT&E Budget Item Justification	DATE May 2009
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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604617F Agile Combat Support
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Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	11.856	5.775	11.261	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
2895 CE Readiness	6.963	0.843	5.135	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
4910 Aeromedical Readiness	4.893	4.932	6.126	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

In FY10, Project 652895, Civil Engineering Readiness (CE), and Project 654910, Aeromedical Readiness, include New-Start efforts.

(U) A. Mission Description and Budget Item Justification

This Program Element (PE) provides capabilities to rapidly deploy, defend and sustain airfield operations, command and control activities, and force protection to ensure readiness. In addition, this PE provides tactical and 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 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), rescue and recovery aids, 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 providing the ability to quickly establish operations, security, and base defense in support of numerous global contingencies, including Operation Enduring Freedom, Operation Iraqi Freedom, various humanitarian/relief efforts, and special operations throughout the world.

The Agile Combat Support program is in RDT&E Budget Activity 5 - System Development and Demonstration (SDD) because it supports development, testing and evaluation of materials and equipment for contingency basing, detection and handling of explosive ordnance, tactical shelters, and aeromedical systems.

(U) B. Program Change Summary (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget	12.146	5.790	9.565
(U) Current PBR/President's Budget	11.856	5.775	11.261
(U) Total Adjustments	-0.290	-0.015	
(U) Congressional Program Reductions			
Congressional Rescissions		-0.015	
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer	-0.290		
(U) <u>Significant Program Changes:</u>			

Exhibit R-2a, RDT&E Project Justification

DATE
May 2009

BUDGET ACTIVITY 05 System Development and Demonstration (SDD)					PE NUMBER AND TITLE 0604617F Agile Combat Support			PROJECT NUMBER AND TITLE 2895 CE Readiness		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
2895 CE Readiness	6.963	0.843	5.135	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

This project provides capabilities to rapidly deploy, defend and sustain airfield operations, command and control activities, and force protection to ensure readiness. These activities are prerequisites to establishing air superiority. Also, this project provides crucial utilities, runway stabilization and repair, explosive ordnance disposal (EOD), rescue and recovery aids; and security and reconnaissance capabilities to support global aircraft deployment, employment, recovery and regeneration. Lighter-weight, rapidly deployable equipment has become essential in providing the ability to quickly establish operations, security, and base defense in support of numerous global contingencies, including Operation Enduring Freedom, Operation Iraqi Freedom, various humanitarian/relief efforts, and special operations throughout the world.

The Civil Engineering Readiness program is in RDT&E Budget Activity 5 - System Development and Demonstration (SDD) because it supports development, test, and evaluation of materials and equipment for contingency basing, detection and handling of explosive ordnance, and tactical shelters.

This project includes a new start effort for Airfield Damage Repair starting in FY10.

(U) B. Accomplishments/Planned Program (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Continue(d) SDD for Multimedia Training Systems (MMTS)(Formerly MTS)	2.109	0.843	
(U) Continued Product Evaluation for Civil Engineer Sys & Equipment (CESEA)	3.303		
(U) Improvised Ordnance Detonator - Advanced Development (Congressional Add)	1.551		
(U) Develop and certify advanced repair materials, techniques, and equipment for the rapid assessment and repair of runway and airfield damage after attack			5.135
(U) Total Cost	6.963	0.843	5.135

(U) C. Other Program Funding Summary (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) Other Procurement, AF, Other Base and Maintenance Support, Air Base Operability PE 0208028F (WSC 845100)	14.657	6.464	22.973						Continuing	TBD

Exhibit R-2a, RDT&E Project Justification

DATE

May 2009

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604617F Agile Combat Support

PROJECT NUMBER AND TITLE

2895 CE Readiness

(U) **D. Acquisition Strategy**

A majority of projects funded in this PE employ a streamlined acquisition approach. Whenever practical, commercial items are tested and evaluated as candidates for solutions to user needs. This normally involves characterization, verification and qualification testing to ensure commercial off-the-shelf equipment is properly adapted for military purposes.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis

DATE

May 2009

BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE			
05 System Development and Demonstration (SDD)				0604617F Agile Combat Support					2895 CE Readiness			
(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>												
Multimedia Training Systems (MMTS)(Formerly MTS)	FFP	Multiple	10.414	2.109	Jan-08	0.843	Jan-09			0.000	13.366	
Civil Engineer Systems & Equipment Analysis (CESEA)	MIPR	AFCESA, Tyndall AFB, FL	7.062	3.303	Jan-08					0.000	10.365	
Improvised Ordnance Detonator - Advanced Development (Congressional Add)	MIPR	Naval Surface Warfare Center, Crane Division, Indiana	0.000	1.551						0.000	1.551	1.551
Airfield Damage Repair	TBD	TBD						5.135	Jan-10	Continuing	TBD	TBD
Subtotal Product Development			17.476	6.963		0.843		5.135		Continuing	TBD	TBD
Remarks:												
(U) <u>Support</u>												
None.											0.000	
None											0.000	
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Test & Evaluation</u>												
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Management</u>												
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U)												
Subtotal			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			17.476	6.963		0.843		5.135		Continuing	TBD	TBD
NOTE: This is a level of effort Program Element with 20+ years of projects. Prior years breakout not available.												

Exhibit R-4, RDT&E Schedule Profile

DATE

May 2009

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604617F Agile Combat Support

PROJECT NUMBER AND TITLE

2895 CE Readiness

2895 CE Readiness

CE Readiness Schedule

0604617F Agile Combat Support

	FY08	FY09	FY10	FY11
(U) Schedule Profile				
MULTIMEDIA TRAINING SYSTEMS (MMTS)				
• Conduct FY08 MMTS Projects	▲	▲		
• Conduct FY09 MMTS Projects		▲	△	
CIVIL ENGINEERING SYSTEMS AND EQUIPMENT ANALYSIS (CESEA)				
• Conduct FY08 CESEA Projects	▲	▲		
AIRFIELD DAMAGE REPAIR				
• Begin SDD activities			△	

Exhibit R-4a, RDT&E Schedule Detail

DATE

May 2009

BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604617F Agile Combat Support	PROJECT NUMBER AND TITLE 2895 CE Readiness
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(U) <u>Schedule Profile</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) MULTIMEDIA TRAINING SYSTEMS (MMTS)			
(U) Begin FY08 MTS Projects	2Q		
(U) Complete FY08 MTS Projects		2Q	
(U) Begin FY09 MTS Projects		2Q	
(U) Complete FY09 MTS Projects		4Q	
(U) CIVIL ENGINEERING SYSTEMS & EQUIPMENT ANALYSIS (CESEA)			
(U) Begin FY08 CESEA Product Evaluations	2Q		
(U) Complete FY08 CESEA Product Evaluations		2Q	
(U) AIRFIELD DAMAGE REPAIR			
(U) Begin SDD activities			2Q

Exhibit R-2a, RDT&E Project Justification

DATE
May 2009

BUDGET ACTIVITY 05 System Development and Demonstration (SDD)					PE NUMBER AND TITLE 0604617F Agile Combat Support			PROJECT NUMBER AND TITLE 4910 Aeromedical Readiness		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
4910 Aeromedical Readiness	4.893	4.932	6.126	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

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. Current efforts include the Deployable Oxygen System (DOS), Field Intravenous Resuscitation (FIVR), and the Blood Oxygenation System (BOS) programs.

The Aeromedical Readiness program is in RDT&E Budget Activity 5 - System Development and Demonstration (SDD) because it supports development, testing, and evaluation of systems and equipment for patient care during contingency operations and aeromedical evacuations.

This project includes a new start effort for the Blood Oxygenation System (BOS) starting in FY10.

(U) B. Accomplishments/Planned Program (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Continue development of oxygen systems to meet deployable oxygen requirements.	0.100	0.100	1.936
(U) Continue System Development and Demonstration of the Field Intravenous Reconstitution (FIVR) system for Expeditionary Trauma Resuscitation (ETR)	4.149	4.195	3.027
(U) Begin System Development and Demonstration of the Blood Oxygenation System for ETR			0.500
(U) 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.	0.644	0.637	0.663
(U) Total Cost	4.893	4.932	6.126

(U) C. Other Program Funding Summary (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) Under the lean initiative, procurement of Aeromedical Systems is being accomplished using O&M funds.										

(U) D. Acquisition Strategy

All major projects are awarded under best-value competitive solicitation.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis

DATE

May 2009

BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE			
05 System Development and Demonstration (SDD)				0604617F Agile Combat Support					4910 Aeromedical Readiness			
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2008 Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) Product Development												
Deployable Oxygen Generation System - Small gas generators and storage units	TBD	TBD	0.243	0.025		0.100		1.936	Jan-10	Continuing	TBD	TBD
Field Intravenous Resuscitation (FIVR) - ETR	CPFF	Applied Research Associates, Inc, Albuquerque, NM	1.383	4.156	Apr-08	3.895	Jan-09	2.382	Jan-10	Continuing	TBD	TBD
Blood Oxygenation System - ETR	TBD	TBD						0.500		Continuing	TBD	TBD
Aeromedical Systems Analysis to include Analysis of Solutions for planned aeromedical and Surgeon General initiatives	N/A	N/A	0.745	0.149		0.149		0.153		Continuing	TBD	TBD
Subtotal Product Development			2.371	4.330		4.144		4.971		Continuing	TBD	TBD
Remarks:												
(U) Support												
Technical Engineering And Management Support (TEAMS)	Delivery Order	Core6, San Antonio, TX	1.144	0.411	Feb-08	0.418	Feb-09	0.438		Continuing	TBD	TBD
Program Management Support & Operations	N/A	77 AESG, Brooks City-Base, TX	0.350	0.084	Nov-07	0.070	Nov-08	0.072		Continuing	TBD	TBD
Subtotal Support			1.494	0.495		0.488		0.510		Continuing	TBD	TBD
Remarks:												
(U) Test & Evaluation												
DOS Test and Evaluation	MIPRs	AFMESA, Fort Detrick, MD	0.193							Continuing	TBD	0.000
FIVR Test and Evaluation	MIPRs	28 TES, Eglin AFB, FL		0.068		0.300		0.645		Continuing	TBD	0.000
Subtotal Test & Evaluation			0.193	0.068		0.300		0.645		Continuing	TBD	0.000
Remarks:												
(U) Management												
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost												
			4.058	4.893		4.932		6.126		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

DATE

May 2009

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604617F Agile Combat Support

PROJECT NUMBER AND TITLE

4910 Aeromedical Readiness

4910 Aeromedical Readiness

Aeromedical Readiness Schedule

0604617F Agile Combat Support

	FY08	FY09	FY10	FY11
<p><u>(U) Schedule Profile</u></p> <p>DEPLOYABLE OXYGEN SYSTEM (DOS)</p> <ul style="list-style-type: none"> Small Oxygen Generator and Storage Unit <p>EXPEDITIONARY TRAUMA RESUSCITATION</p> <ul style="list-style-type: none"> Field Intravenous Resuscitation (FIVR) Blood Oxygenation System (BOS) 			MS B △ SDD	
	MS B ▲ SDD			
			Market Analysis △	

UNCLASSIFIED

Exhibit R-4a, RDT&E Schedule Detail		DATE May 2009
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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604617F Agile Combat Support	PROJECT NUMBER AND TITLE 4910 Aeromedical Readiness
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(U) Schedule Profile	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) DEPLOYABLE OXYGEN SYSTEM			
(U) Initiate Systems Development and Demonstration for the Small oxygen generation and storage system			2Q
(U) EXPEDITIONARY TRAUMA RESUSCITATION			
(U) Initiate Systems Development and Demonstration for the Field Intravenous Resuscitation (FIVR) System	3Q		
(U) Initiate Systems Development and Demonstration for the Blood Oxygenation System (BOS)			2-Q