

UNCLASSIFIED

PE NUMBER: 0604617F
 PE TITLE: Agile Combat Support

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2008
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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 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	9.715	12.146	5.790	9.565	9.776	9.961	10.159	Continuing	TBD
2895 CE Readiness	5.846	8.053	3.051	6.703	6.812	6.942	7.082	Continuing	TBD
4910 Aeromedical Readiness	3.869	4.093	2.739	2.862	2.964	3.019	3.077	Continuing	TBD

FY2008 funding totals do not include \$3.8M FY2008 GWOT requirements still pending Congressional consideration.

(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 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	10.056	10.623	9.358
(U) Current PBR/President's Budget	9.715	12.146	5.790
(U) Total Adjustments	-0.341	1.523	
(U) Congressional Program Reductions			
Congressional Rescissions		-0.078	
Congressional Increases		1.600	
Reprogrammings	-0.100	0.001	
SBIR/STTR Transfer	-0.241		

(U) Significant Program Changes:

FY08 Appropriations provided a \$1.6M earmark for Improvised Ordnance Detonator - Advanced Development.

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In FY09, \$3.5M was transferred from Project 2895, Civil Engineering Readiness (CE), to PE 0603112F, Advanced Materials for Weapon Systems, to support technology evaluation for Airfield Damage Repair (ADR) and Rapid Parking Ramp Expansion (RPRE)

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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 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
2895	CE Readiness	5.846	8.053	3.051	6.703	6.812	6.942	7.082	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0		

FY08 Appropriations provided a \$1.6M earmark for Improvised Ordnance Detonator - Advanced Development.

In FY09, \$3.5M was transferred to PE 0603112F, Advanced Materials for Weapon Systems, to support technology evaluation for Airfield Damage Repair (ADR) and Rapid Parking Ramp Expansion (RPRE)

(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. The 688th Armament Systems Squadron (ARSS) (formerly Agile Combat Support Systems Squadron (ACSSS)) systems provide beddown for aircraft, support equipment, and forces at both main operating bases and contingency operating locations, which may have only a runway and water source. They also offer 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 688th Armament Systems Squadron 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 evacuation systems.

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Provide Joint Robotics Program (JRP) Support	0.100	0.100	0.100
(U) Support research of new technologies to meet CDD requirement for Rapid Parking Ramp Expansion (RPRE)	0.100	0.100	0.300
(U) Initiate SDD for Advanced EOD Robotics (formally Next Generation Robotics Program)		1.200	1.381
(U) Continue(d) SDD for Multimedia Training Systems (MMTS)(Formerly MTS)	2.839	1.929	0.870
(U) Continue(d) Product Evaluation for Civil Engineer Sys & Equipment (CESEA)	2.807	3.124	0.400
(U) Improvised Ordnance Detonator - Advanced Development		1.600	
(U) Total Cost	5.846	8.053	3.051

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

	<u>FY 2007</u>	<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>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) Other Procurement, AF, Other Base and Maintenance Support,	25.938	36.683	26.459	33.332	49.681	31.109	31.800	Continuing	TBD

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

Mobility Equipment (WSC
845420)

(U) Other Procurement, AF, Other
Base and Maintenance Support,
Air Base Operability (WSC
845100)

	16.426	6.179	6.483	6.606	6.767	6.899	7.036	Continuing	TBD
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(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. ACC/A8M/A7X jointly develop/approve requirements supporting Civil Engineering Readiness and Capabilities Enhancement initiatives, such as Explosive Ordnance Disposal robotics programs. The 688th Armament Systems Squadron (ARSS) at Eglin AFB, FL initiates SDD following receipt of applicable Capabilities Development Documents from those agencies. The Basic Expeditionary Airfield Resource (BEAR) Systems Readiness Board (BSRB) evaluates laboratory and commercial technologies with application for modernization of BEAR assets, such as deployable shelters, power, waste treatment and airfield support systems. With ACC/A8M/A4X/A7X direction and BEAR Program Office approval, the 688th ARSS initiates SDD, and ACC/A4X aligns BEAR production funding within PE 0401135F to support modernization of assets. Initiation of SDD includes all 6.4 activities leading up to contract award and subsequent test and evaluation culminating in a Milestone C production decision.

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Exhibit R-3, RDT&E Project Cost Analysis

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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 2007 Cost</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>												
Joint Robotics Program (JRP) support	FFP	688th ARSS, Eglin AFB FL		0.100	Jan-07	0.100	Jan-08	0.100	Jan-09	Continuing	TBD	TBD
Advanced EOD Robotics (formally Next Generation Robotics)	TBD	TBD				1.200	Mar-08	1.381	Jan-09	9.052	11.633	13.000
Rapid Parking Ramp Expansion (RPRE)	TBD	TBD	2.548	0.100	Dec-06	0.100	Jan-08	0.300	Dec-08	0.700	3.748	4.700
Multimedia Training Systems (MMTS)(Formerly MTS)	FFP	Multiple	7.575	2.839	Dec-06	1.929	Jan-08	0.870	Dec-08	Continuing	TBD	TBD
Civil Engineer Systems & Equipment Analysis (CESEA)	FFP	Multiple	4.255	2.807	Jan-07	3.124	Jan-08	0.400	Jan-09	Continuing	TBD	TBD
Improvised Ordnance Detonator - Advanced Development	TBD	TBD				1.600				0.000	1.600	1.600
Subtotal Product Development			14.378	5.846		8.053		3.051		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>												
Various	Various									Continuing	TBD	
None											0.000	
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		Continuing	TBD	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			14.378	5.846		8.053		3.051		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

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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

	FY07	FY08	FY09
(U) Schedule Profile			
RAPID PARKING RAMP EXPANSION (RPRE) • Conduct activities to define new RPRE technologies leading to FY10 SDD			→
ADVANCED EXPLOSIVES ORDNANCE DISPOSAL (EOD) ROBOTICS • Initiate SDD activities		MS B △	SDD
MULTIMEDIA TRAINING SYSTEMS (MMTS) DEVELOPMENT • Conduct FY07 MMTS Projects • Conduct FY08 MMTS Projects • Conduct FY09 MMTS Projects	▲ — ▲	▲ — △	△ — △
CIVIL ENGINEERING SYSTEMS AND EQUIPMENT ANALYSIS (CESEA) • Conduct FY07 MMTS Projects • Conduct FY08 MMTS Projects • Conduct FY09 MMTS Projects	▲ — ▲	▲ — △	△ — △

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Exhibit R-4a, RDT&E Schedule Detail	DATE February 2008
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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>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Schedule Profile			
(U) RAPID PARKING RAMP EXPANSION (RPRE)			
(U) Support activities to define new technologies to meet ORD requirements	1Q	1Q	1Q
(U) ADVANCED EOD ROBOTICS (formerly Next Generation Robotics)			
(U) Initiate SDD activities		2Q	
(U) MULTIMEDIA TRAINING SYSTEMS (MMTS)			
(U) Begin FY07 MTS Projects	1Q		
(U) Complete FY07 MTS Projects	3Q		
(U) Begin FY08 MTS Projects		1Q	
(U) Complete FY08 MTS Projects		3Q	
(U) Begin FY09 MTS Projects			1Q
(U) Complete FY09 MTS Projects			3Q
(U) CIVIL ENGINEERING SYSTEMS & EQUIPMENT ANALYSIS (CESEA)			
(U) Begin FY07 CESEA Product Evaluations	1Q		
(U) Complete FY07 CESEA Product Evaluations	4Q		
(U) Begin FY08 CESEA Product Evaluations		1Q	
(U) Complete FY08 CESEA Product Evaluations		4Q	
(U) Begin FY09 CESEA Product Evaluations			1Q
(U) Complete FY09 CESEA Product Evaluations			4Q

Exhibit R-2a, RDT&E Project Justification

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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		
Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
4910 Aeromedical Readiness	3.869	4.093	2.739	2.862	2.964	3.019	3.077	Continuing	TBD
Quantity of RDT&E Articles	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.

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 evacuation systems.

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Continue development of oxygen systems to meet deployable oxygen requirements	2.175	0.100	0.100
(U) Continue analysis, risk mitigation (breadboard), and begin SDD activities for Expeditionary Trauma Resuscitation	1.694	3.349	1.995
(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	0.644
(U) Total Cost	3.869	4.093	2.739

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

	<u>FY 2007</u> <u>Actual</u>	<u>FY 2008</u> <u>Estimate</u>	<u>FY 2009</u> <u>Estimate</u>	<u>FY 2010</u> <u>Estimate</u>	<u>FY 2011</u> <u>Estimate</u>	<u>FY 2012</u> <u>Estimate</u>	<u>FY 2013</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U) Other Procurement, AF, Other Base Maintenance and Support, Medical/Dental Equipment (WSC 845060)	16.231	0.000	0.000	0.000	0.000	0.000	0.000	0.000	18.200

Under the lean initiative, procurement of Deployable Oxygen System and Expeditionary Trauma Resuscitation assets will be accomplished using O&M funds.

(U) D. Acquisition Strategy

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

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Exhibit R-3, RDT&E Project Cost Analysis

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05 System Development and Demonstration (SDD)				0604617F Agile Combat Support					4910 Aeromedical 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 2007 Cost</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>	
(U) <u>Product Development</u>													
Deployable Oxygen Generation System - Medium gas generators and storage units	CPFF	Pacific Consolidated Industries LLC, Riverside, CA & Carleton Life Support Systems INC, Davenport, IA	3.537	1.975	Feb-07					0.000	5.512	5.117	
Deployable Oxygen Generation System - Small gas generators and storage units	CPFF	TBD				0.100		0.100		0.000	0.200	1.402	
Deployable Oxygen Generation System - Large gas generators and storage units	TBD	TBD								0.000	0.000	2.170	
Expeditionary Trauma Resuscitation	CPFF	Applied Research Associates, Inc, Albuquerque, NM		1.056	May-07	3.349	Apr-08	1.995	Jan-09	Continuing	TBD	3.879	
Aeromedical Systems Analysis to include Analysis of Solutions for planned aeromedical and Surgeon General initiatives	N/A	N/A	0.448			0.149		0.149		Continuing	TBD	TBD	
Subtotal Product Development			3.985	3.031		3.598		2.244		Continuing	TBD	TBD	
Remarks:													
(U) <u>Support</u>													
Technical Engineering And Management Support (TEAMS)	Delivery Order	Core6, San Antonio, TX	0.650	0.412	Feb-07	0.425	Feb-08	0.425	Feb-09	Continuing	TBD	TBD	
Program Management Support & Operations	Various	77 AESG, Brooks City-Base, TX	0.563	0.273	Nov-06	0.070	Nov-07	0.070	Nov-08	Continuing	TBD	TBD	
None.											0.000		
Subtotal Support			1.213	0.685		0.495		0.495		Continuing	TBD	TBD	
Remarks:													
(U) <u>Test & Evaluation</u>													
DOS Test and Evaluation	MIPRs	AFMESA, Fort Detrick, MD	0.037	0.153						0.000	0.190	0.000	
None.											0.000		
Subtotal Test & Evaluation			0.037	0.153		0.000		0.000		0.000	0.190	0.000	
Remarks:													

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05 System Development and Demonstration (SDD)	0604617F Agile Combat Support	4910 Aeromedical Readiness
(U) <u>Management</u>		
Subtotal Management	0.000	0.000
Remarks:	0.000	0.000
(U) Total Cost	5.235	3.869
	4.093	2.739
		Continuing
		TBD
		TBD

Exhibit R-4, RDT&E Schedule Profile

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0604617F Agile Combat Support

PROJECT NUMBER AND TITLE

4910 Aeromedical Readiness

4910 Aeromedical Readiness

Aeromedical Readiness Schedule

0604617F Agile Combat Support

FY07	FY08	FY09
SDD	MS C ▲	
	MS B ▲	SDD

Activities leading to 1st Qtr FY10 MS B →

▲ Risk Mitigation Start (Breadboard Development)

(U) Schedule Profile

DEPLOYABLE OXYGEN SYSTEM (DOS)

- Deployable Oxygen Generation System – Small (DOGS-S)
- Deployable Oxygen Generation System – Medium (DOGS-M)

EXPEDITIONARY TRAUMA RESUSCITATION

- Field Intravenous Reconstitution

Exhibit R-4a, RDT&E Schedule Detail

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PROJECT NUMBER AND TITLE

4910 Aeromedical Readiness

(U) **Schedule Profile**

FY 2007

FY 2008

FY 2009

(U) DEPLOYABLE OXYGEN SYSTEMS

(U) -Conduct Milestone C for medium oxygen generator and storage unit

2Q

(U) EXPEDITIONARY TRAUMA RESUSCITATION

(U) -Conduct Milestone B decision for Field Intravenous Resuscitation (FIVR II)

2Q