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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force **Date:** February 2015

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604617F / <i>Agile Combat Support</i>
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COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	-	16.747	42.840	57.678	-	57.678	49.955	17.137	17.336	17.646	Continuing	Continuing
652895: <i>CE Readiness</i>	-	13.968	41.403	56.212	-	56.212	48.388	15.540	15.709	15.991	Continuing	Continuing
654910: <i>Aeromedical Readiness</i>	-	2.779	1.437	1.466	-	1.466	1.567	1.597	1.627	1.655	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program supports the vision of Agile Combat Support (ACS), which is to provide an integrated and interoperable mission-ready total force capable of delivering responsive, persistent, effective, and affordable support across the range of military operations to achieve joint effects. To this end, ACS is challenged to provide lighter, leaner, rapidly-deployable and technologically-advanced materiel and forces; timelier planning and execution capabilities; and more agile, responsive, and efficient sustainment capabilities to the warfighter. Consequently, this program provides capabilities to field, base, protect, support, and sustain air, space, and cyberspace forces with an intentional focus on efficiency and effectiveness. Current projects in this program provide Civil Engineering Readiness (BPAC 652895) and Aeromedical Readiness (BPAC 654910). Civil Engineering Readiness projects enable rapid deployment, defense, and sustainment of airfield operations within established timelines anywhere in the world. Aeromedical Readiness projects provide aerospace medical systems and treatment equipment to meet unique, worldwide warfighter medical operational requirements.

BA 5 - This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full-rate production.

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	17.036	46.340	58.060	-	58.060
Current President's Budget	16.747	42.840	57.678	-	57.678
Total Adjustments	-0.289	-3.500	-0.382	-	-0.382
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-3.500			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.289	-			
• Other Adjustments	-	-	-0.382	-	-0.382

Change Summary Explanation

FY15 President's Budget reduced by \$3.5M due to Congressional directed reduction for airfield damage repair forward financing.

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Air Force										Date: February 2015		
Appropriation/Budget Activity 3600 / 5					R-1 Program Element (Number/Name) PE 0604617F / Agile Combat Support				Project (Number/Name) 652895 / CE Readiness			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
652895: CE Readiness	-	13.968	41.403	56.212	-	56.212	48.388	15.540	15.709	15.991	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Civil Engineering (CE) Readiness project develops airfield assessment, repair, and unexploded ordnance identification, removal, disposal, and mitigation capabilities to enable rapid recovery and regeneration of airfield operations within established time limits. This project develops and transitions infrastructure design criteria, construction methods and materials, and evaluation tools for both main operating bases and forward operating locations. This project also provides efficient and effective Basic Expeditionary Airfield Resources (BEAR) capabilities to support forward deployed airfields in bare-base locations or augment existing airfield infrastructure in support of joint operations. All of these efforts enable air superiority.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2014	FY 2015	FY 2016
Title: Airfield Damage Repair	10.268	33.278	41.212
<p>Description: This effort develops, tests, and certifies equipment, materials, and Tactics, Techniques, and Procedures (TTPs) for the rapid assessment and repair of airfield damage, which includes identification, mitigation or removal of unexploded ordnance and expedient repairs for fuel and utility systems. This effort also intends to accelerate the transition of proven technologies in expedient and sustained protection of critical infrastructure, including operating surfaces, shelters, fuel storage and distribution systems, and command and control (C2) systems. Further, this effort focuses on the resiliency of airbase infrastructure as well as the timely repair and regeneration of airfield operations within established time limits in order to gain and maintain air superiority.</p> <p>FY 2014 Accomplishments: Develop rapid airfield damage assessment capabilities; update Geospatial Expeditionary Planning Tool; develop damage plotting tools; automate tools for Minimum Airfield Operating Surface (MAOS) determination and repair quality; develop advanced procedures employing asphalt to repair large craters; improve job mix formula for calculation of locally procured materials; update TTPs as necessary; develop command and control (C2) training products.</p> <p>FY 2015 Plans: Continue to develop rapid assessment and repair of airfield damage, which includes automated identification, mitigation or removal of unexploded ordnance, and rapid setting material storage and transfer capability; develop expeditionary fuel and utility restoration capability; develop aircraft performance data for MAOS selection criteria; conduct detailed engineering development, prototyping, and prototype testing of new systems for expeditionary lighting, fuel storage, fuel distribution, and aircraft shelters.</p> <p>FY 2016 Plans: Continue development of rapid assessment, mitigation and repair of airfield damage. Rapid assessment includes automated identification, classification, and measurement of damage to airfield pavement and infrastructure. Further, it includes the development of IT solutions for minimum airfield operating surface (MAOS) selection, ADR command and control (C2), ADR</p>			

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Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604617F / <i>Agile Combat Support</i>	Project (Number/Name) 652895 / <i>CE Readiness</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<p>training, and interfaces to other AF C2 systems. Mitigation includes rendering safe and/or removal of UXO through a family of Multiple UXO Removal Systems (MURS), such as Recovery of Airfields Denied By Ordnance (RADBO); high-speed ground robots; and Remotely Piloted Vehicles. Repair of airfield damage focuses on rapid setting material storage and transfer capability; development of recycled asphalt products and packaging for use in asphalt recycler; demonstrating ADR in a chemical contaminated environment; development of backfill/capping concrete; investigating the use of reclaimed and indigenous materials; investigating expeditionary ADR equipment; expanding robotics and automation in ADR; evaluation of lightweight matting and alternative FOD cover technologies; evaluation of foam technologies and other material solutions that offer soil/base stabilization; and development of expeditionary fuel and utility restoration technologies.</p>				
<p>Title: Basic Expeditionary Airfield Resources (BEAR) Energy Initiatives</p> <p>Description: This effort develops, tests, and evaluates BEAR technologies in support of air bases at austere locations and augmentation of bed-down at fixed installations. The BEAR initiative, a joint effort with the Army, focuses on efficiency and economy of resources. This program includes development of smart shelter energy management. The smart shelter project will develop an autonomous, in-shelter smart control system for expeditionary structures.</p> <p>FY 2014 Accomplishments: Complete development of an end-to-end system of BEAR energy reduction technologies by developing BEAR smart shelter system. The smart shelter energy project will reduce deployed base fuel consumption by 25%.</p>		3.700	-	-
<p>Title: Airfield Protection</p> <p>Description: This effort advances and transitions various solutions for protecting airfield infrastructure (not associated with airfield surfaces) from penetrating threats, whether ballistic or guided. Included within this effort are structural solutions, expeditionary and expedient hardening and protection solutions, rapid restoration of fuels distribution and storage, hardening criteria, implementation costs, and updated Tactics, Techniques and Procedures (TTPs). Airfield infrastructure includes buildings, hangars, aircraft and ground equipment, fuels distribution and storage, as well as all other assets on or near airfields. This effort is designed to advance solutions developed under the Hardened Installation Protection for Persistent Operations (HIPPO) Joint Capability Technology Demonstration (JCTD) and transition for implementation at fixed and expeditionary locations, providing improved resiliency and rapid restoration of airbase and airfield operations following an attack.</p> <p>FY 2014 Accomplishments: N/A</p> <p>FY 2015 Plans: Begin development of technology solutions developed under the HIPPO JCTD. Correct deficiencies identified in HIPPO. Define and develop fully integrated solution(s) for hardening and protection identified in HIPPO JCTD. Begin test and evaluation planning; conduct test and evaluation of new panel designs. Advance fuel distribution restoration and recovery equipment and</p>		-	8.125	15.000

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
methods. Develop retrofit of sunshades for fighter aircraft. Advance expedient protection systems for small scale equipment and facilities.			
<i>FY 2016 Plans:</i> Continue Engineering and Manufacturing Development (EMD) of technology solutions for Ultra High Performance Concrete, execute research for hardening against cruise missile threats, execute materials and structures blast and ballistic testing for layered hardening, finalize sheltering designs for Expeditionary Large Asset Protection and Expedient Small Asset Protection, develop test plans for final sheltering designs, finalize fuel distribution restoration and recovery products, develop training, TTPs,; develop final training mockup, hardening strategies for cruise missiles; and airbase protection technologies for full spectrum of emerging threats, including firefighting, explosive ordnance disposal, emergency services, and infrastructure protection.			
Accomplishments/Planned Programs Subtotals	13.968	41.403	56.212

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

Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• OPAF:BA04:Line Item #845100A: <i>Contingency Operations</i>	4.700	38.728	5.412	-	5.412	0.379	1.393	2.137	2.079	Continuing	Continuing

Remarks

D. Acquisition Strategy
The majority of efforts in this project employ a streamlined acquisition approach. Whenever practical and appropriate, commercial-off-the-shelf (COTS) and modified-COTS will be procured to address mission capability requirements. Existing contracts will be used, including contracts of other services or agencies; new contracts will be used as appropriate for the type and scope of work needed.

E. Performance Metrics
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604617F / Agile Combat Support	Project (Number/Name) 652895 / CE Readiness
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Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Airfield Damage Repair (ADR) 1	Various	AFCEC : Tyndall AFB, FL	-	3.693	Jan 2014	17.623	Dec 2014	26.962	Feb 2016	-		26.962	Continuing	Continuing	-
ADR 2	MIPR	USERDC : Vicksburg, MS	-	5.570	Dec 2013	8.700	Dec 2015	14.250	Feb 2016	-		14.250	Continuing	Continuing	-
ADR 3	C/CPFF	Applied Research Associates, Inc. : Albuquerque, NM	-	0.630	Jan 2014	-		-		-		-	Continuing	Continuing	-
ADR 4	C/CPFF	WINTEC, INC. : Shalimar, FL	-	0.300	Jan 2014	-		-		-		-	Continuing	Continuing	-
BEAR Smart Shelter Energy Management System	C/CPFF	AFCEC : Tyndall AFB, FL	-	3.500	Jan 2014	-		-		-		-	-	3.500	-
Airfield Protection	Various	AFCEC : Tyndall AFB, FL	-	-		15.000	Feb 2015	15.000	Feb 2016	-		15.000	Continuing	Continuing	-
Subtotal			-	13.693		41.323		56.212		-		56.212	-	-	-

Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Supplies, Travel	Various	AFCEC : Tyndall AFB, FL	-	0.275		0.080		-		-		-	Continuing	Continuing	-
Subtotal			-	0.275		0.080		-		-		-	-	-	-

Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			-	-		-		-		-		-	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Air Force **Date:** February 2015

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Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			-	-		-		-		-		-	-	-	-
Project Cost Totals			-	13.968		41.403		56.212		-		56.212	-	-	-

Remarks
NOTE: This is primarily a level of effort Program Element with multiple projects.

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Air Force **Date:** February 2015

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604617F / <i>Agile Combat Support</i>	Project (Number/Name) 652895 / <i>CE Readiness</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
ADR Command and Control Simulator Production	3	2014	1	2016
ADR Robotic Appliques Operational Utility Evaluation (OUE)	3	2015	4	2016
ADR Material Transfer Concept Activities, and Test and Evaluation	1	2015	4	2016
RADAS / Minimum Airfield Surface OUE and Assessment	3	2014	4	2015
RADAS Production and Deployment	4	2015	3	2019
RADBO Vehicle Operational Utility Assessment	2	2015	4	2015
Airfield Protection (AP) Large/Small Sheltering Product Design, Development, Test and Evaluation	2	2015	1	2018
AP Ultra-high Performance Concrete Model/Materials	2	2015	1	2018
AP Guided Threats Protection Concept Activities	2	2015	2	2017
AP Guided Threats Protection Design and Development	1	2018	4	2019
AP Fuel Repair Design and Development	2	2015	1	2018
BEAR Energy Initiatives Smart Shelter Energy Management System Concept Activities, Design, Development, Test and Evaluation	2	2014	1	2018

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COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
654910: <i>Aeromedical Readiness</i>	-	2.779	1.437	1.466	-	1.466	1.567	1.597	1.627	1.655	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This program provides tactical and strategic management of combat casualties by further developing and optimizing existing technologies for ground Expeditionary Medical Systems (EMEDS) and Aeromedical evacuation systems. The program also supports capabilities development in the multi-disciplinary areas for light-weight, durable, and rapidly deployable medical equipment to meet Air Force medical readiness and operational requirements.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2014	FY 2015	FY 2016
<p>Title: Deployable Oxygen Generation System - Small (DOGS-S)</p> <p>Description: This effort designs, develops, and engineers manufacturing capability for a portable oxygen generation system, which provides medical grade oxygen for Expeditionary Medical Systems (EMEDS) hospitals and mobile aeromedical staging facilities.</p> <p>FY 2014 Accomplishments: Continued Developmental Test & Evaluation.</p> <p>FY 2015 Plans: Complete Development and Operational Test & Evaluation. Submit and obtain Food & Drug Administration clearance. Complete EMD phase for entry into Milestone C.</p>	0.258	0.065	-
<p>Title: Field Intravenous Fluid Reconstitution (FIVR)</p> <p>Description: This effort designs, develops and tests the FIVR system, which produces intravenous fluids for treating critical casualties in EMEDS hospitals and mobile aeromedical staging facilities.</p> <p>FY 2014 Accomplishments: Concept Activities</p> <p>FY 2015 Plans: Market research for FIVR commercial off-the-shelf devices.</p>	0.800	0.050	-
<p>Title: Non-Invasive Warming and Cooling Device (NIWCD)</p> <p>Description: Single device to provide therapeutic temperature control during treatment and movement of patient from point of injury through the continuum of care. The mortality in combat casualties with hypothermia is double that of normothermic casualties with similar injuries. Cooling the patient is required to treat hyperthermia.</p>	-	1.322	1.466

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Air Force		Date: February 2015
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604617F / <i>Agile Combat Support</i>	Project (Number/Name) 654910 / <i>Aeromedical Readiness</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
<p><i>FY 2015 Plans:</i> Complete Pre-Milestone B documentation and briefings, release Request for Proposal, conduct source selection, and award contract.</p> <p><i>FY 2016 Plans:</i> Enter into EMD and conduct Preliminary Design Review and Critical Design Review.</p> <p><i>Title:</i> Aeromedical Systems Planning, Studies, and Analysis (ASPSA)</p> <p><i>Description:</i> This effort is for foundational studies, requirements analysis, and product demonstrations to satisfy aeromedical operational needs. Define acquisition strategies and baselines for potential system solutions.</p> <p><i>FY 2014 Accomplishments:</i> Reports received and all activities are completed.</p>	1.721	-	-
Accomplishments/Planned Programs Subtotals	2.779	1.437	1.466

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u> <u>Base</u>	<u>FY 2016</u> <u>OCO</u>	<u>FY 2016</u> <u>Total</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• NA: NA	-	-	-	-	-	-	-	-	-	-	-

Remarks

D. Acquisition Strategy
Programs will consider a streamlined acquisition approach. Whenever practical, commercial items are tested and evaluated as candidates for providing solutions to user needs. This normally involves characterization, verification, and qualification testing to ensure commercial off-the-shelf equipment is properly evaluated to identify any capability gaps that may require minor modifications for military use.

E. Performance Metrics
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604617F / Agile Combat Support	Project (Number/Name) 654910 / Aeromedical Readiness
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Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Deployable Oxygen Generation System - Small (DOGS-S)	C/FFP	AirSep Corporation : Amherst, NY	-	0.151		-		-		-		-	Continuing	Continuing	TBD
Field Intravenous Fluid Reconstitution (FIVR)	TBD	TBD : TBD,	-	0.800	Jan 2015	-		-		-		-	Continuing	Continuing	-
Aeromedical Systems Planning, Studies, and Analysis (ASPSA)	Various	AFLCMC : Dayton, OH	-	1.088	Jan 2014	-		-		-		-	Continuing	Continuing	-
Non-Invasive Warming and Cooling Device (NIWCD)	C/TBD	TBD : TBD,	-	-		1.022	Nov 2015	1.164	Nov 2016	-		1.164	Continuing	Continuing	-
Subtotal			-	2.039		1.022		1.164		-		1.164	-	-	-

Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			-	-		-		-		-		-	-	-	-

Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Test & Evaluation	MIPR	AFMESA : Ft Detrick, MD	-	0.036	Aug 2014	0.020	Aug 2015	0.060	Aug 2016	-		0.060	Continuing	Continuing	-
Subtotal			-	0.036		0.020		0.060		-		0.060	-	-	-

Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Management	Various	AFLCMC : Wright-Patterson AFB, OH	-	0.704	Dec 2013	0.395	Dec 2014	0.242	Dec 2015	-		0.242	Continuing	Continuing	TBD

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Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604617F / <i>Agile Combat Support</i>	Project (Number/Name) 654910 / <i>Aeromedical Readiness</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Engineering and Manufacturing Development (EMD) Phase for the Deployable Oxygen Generation System (DOGS) - Small	1	2014	3	2015
Production and Fielding Phase for the DOGS - Small System	4	2015	4	2018
EMD Phase for the Non-Invasive Warming & Cooling Device (NIWCD)	4	2015	2	2018
Production and Fielding Phase for NIWCD	2	2018	2	2019
Conduct FIVR Concept Activities	3	2014	3	2015