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

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 7:

PE 0207410F I Air & Space Operations Center (AOC)

Date: March 2014

Operational Systems Development

Appropriation/Budget Activity

COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	264.584	70.925	22.332	41.066	-	41.066	21.333	17.734	18.081	18.425	Continuing	Continuing
675117: Integration Development	264.584	49.329	-	-	-	-	-	-	-	-	-	313.913
675218: Applications Development	0.000	15.771	14.796	29.550	-	29.550	11.588	7.496	7.643	7.789	Continuing	Continuing
675220: Unit Level	0.000	5.825	5.397	9.100	-	9.100	7.311	7.803	7.956	8.107	Continuing	Continuing
675221: Personnel Recovery Command and Control (PRC2)	0.000	-	2.139	2.416	-	2.416	2.434	2.435	2.482	2.529	Continuing	Continuing

MDAP/MAIS Code: N42

#### Note

Air Force

In FY 2014, project number 675117, Integration Development, AOC Increment 10.2, efforts were transferred to PE 0604458F, AOC Increment 10.2, project number 644945, AOC Increment 10.2, in order to improve transparency of ACAT 1 Acquisition programs.

AOC Increment 10.2 received a Milestone B decision 11 October 2013. Beginning in FY 2015, PE 0604458F Air & Space Ops Center project number 644945 AOC Increment 10.2 development efforts are transferred to PE 0605458F Air & Space Ops Center 10.2 RDT&E project number 654945 AOC 10.2 Development, to align post Milestone B development efforts with funding in RDT&E Budget Activity 05, System Development & Demonstration (SDD).

In FY13, AOC 10.2 is PRCP Program Number(PNO) N42. In FY14, AOC 10.2 is PNO N46. Beginning in FY15, AOC 10.2 is PNO N91

## A. Mission Description and Budget Item Justification

The Air and Space Operations Center Weapon System (AOC WS) program element provides development of Command and Control (C2) capabilities across the entire spectrum of air and space operations from the strategic to the tactical level. There are four funded projects within the AOC WS program element:

Integration Development supports the AOC WS, AN-USQ-163 Falconer, the senior element of the Theater Air Control System (TACS). AOC WS is the weapon system the Commander, Air Force Forces (COMAFFOR) provides the Combined/Joint Force Air Component Commander (C/JFACC) for planning, executing and assessing theater-wide air and space operations.

Applications Development provides worldwide operational level C2 capabilities, which include: air battle planning, management, and execution; operational level C2 of Integrated Air and Missile Defense (IAMD); as well as personnel recovery C2 in support of DoD, Coalition Partners, and other government agencies.

PE 0207410F: Air & Space Operations Center (AOC)

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<sup>&</sup>lt;sup>#</sup> The FY 2015 OCO Request will be submitted at a later date.

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

Date: March 2014

### Appropriation/Budget Activity

3600: Research, Development, Test & Evaluation, Air Force I BA 7:

PE 0207410F I Air & Space Operations Center (AOC)

R-1 Program Element (Number/Name)

Operational Systems Development

Unit Level (UL) supports two primary mission areas: UL Operations software systems provide both the scheduling and mission preparation activities at the wing and squadron level and the capabilities to report and track the success of each mission and influence decisions on future Air Battle Planning to refine future missions. UL intelligence capabilities ensure detailed threat, target and imagery information readily available to mission commanders and aircrews planning current flight operations.

Personnel Recovery Command and Control (PRC2): Provides an adaptive, networked, decentralized and situationally-appropriate personnel recovery command and control system which supports personnel accountability and recovery missions worldwide. PRC2 delivers a globally accessible, collaborative, interoperable and integrated system to prevent, prepare for and respond to isolating events across the Range of Military Operation in the joint/coalition operating environment. The system collects, stores and delivers personnel/identity biometric data, emergency locator beacon registrations, isolated personnel reports, evasion plans of action, incident reports and other information management capabilities for predictive, preventive and personnel vulnerability analysis/assessment in support of Personnel Recovery across Department of Defense and other national and international entities.

This program is in Budget Activity 7, Operational System Development, these budget activities includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	76.315	22.820	41.578	-	41.578
Current President's Budget	70.925	22.332	41.066	-	41.066
Total Adjustments	-5.390	-0.488	-0.512	-	-0.512
<ul> <li>Congressional General Reductions</li> </ul>	-0.100	-0.488			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>	-	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
<ul> <li>Reprogrammings</li> </ul>	-	-			
SBIR/STTR Transfer	-1.397	-			
Other Adjustments	-3.893	-	-0.512	<del>-</del>	-0.512

## **Change Summary Explanation**

FY 2013: Other Adjustments reduction of -\$3.893M due to sequestration.

FY 2014: Project number 675117, Integration Development, AOC Increment 10.2 efforts transferred to PE 0604458F, AOC Increment 10.2, project number 644945, AOC Increment 10.2, in order to improve transparency of ACAT 1 Acquisition programs.

PE 0207410F: Air & Space Operations Center (AOC) Air Force

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Exhibit R-2A, RDT&E Project J	ustification:	PB 2015 A	ir Force							Date: Mar	ch 2014	
Appropriation/Budget Activity 3600 / 7					, , ,					Number/Name) Integration Development		
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
675117: Integration Development	264.584	49.329	-	-	-	-	-	-	-	-	-	313.913
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

<sup>&</sup>lt;sup>#</sup> The FY 2015 OCO Request will be submitted at a later date.

#### Note

Air Force

In FY 2014, project number 675117, Integration Development, AOC Increment 10.2, efforts were transferred to PE 0604458F, project number 644945, AOC Increment 10.2, in order to improve transparency of ACAT 1 Acquisition programs.

In FY 2015, PE 0604458F, Air & Space Ops Center project number 644945 AOC Increment 10.2, development efforts were transferred to PE 0605458F Air & Space Ops Center 10.2 project number 654945, AOC 10.2 Development, in order to align post Milestone B development efforts with funding in RDT&E Budget Activity 05, System Development & Demonstration (SDD).

## A. Mission Description and Budget Item Justification

The Air Operations Center Weapons System (AOC WS), AN/USQ-163 Falconer, the senior element of the Theater Air Control System (TACS), is the weapon system the Commander, Air Force Forces (COMAFFOR) provides the Combined/Joint Force Air Component Commander (C/JFACC) for planning, executing, and assessing theater-wide air and space operations. The C/JFACC provides air, space and cyber support to the Combined/Joint Forces Commander (C/JFC) by coordinating, deconflicting and assessing the progress of various weapon systems to advance the C/JFC's campaign. The AOC WS develops operations strategy and planning documents. The weapon system also disseminates tasking orders; executes day-to-day peacetime and combat air, space and cyber operations; and provides rapid reaction to immediate situations by exercising positive control of friendly forces.

The AOC Integration Development program keeps the AOC interoperable, certified, supportable, and compliant through the integration, testing and fielding of new capabilities and sustainment upgrades to the AOC WS baseline. The program supports mission requirements at Geographic and Functional AOCs, as well as Support and Manpower Augmentation units. To keep the AOC current and interoperable with the COCOMs, cyber requirements, and fifth generation weapon system/weapons, the AOC WS program plans to evolve the AOC through the integration and test of progressively improving capabilities. These activities ensure a system of systems engineering perspective for the AOC WS, and include weapon system standardization activities as defined by AOC WS requirements documents. Integrated Air and Missile Defense (IAMD) establishes critical IAMD improvements in the AOC WS to maximize the allocation, planning, and execution of IAMD. The Modernization contractor, which was awarded the Modernization contract on 25 October 2011, has commenced with AOC 10.2 pre-Engineering and Manufacturing Development (EMD) activities, including a Systems Requirements Review (SRR), an Interim Design Review (IDR), and a delta-Preliminary Design Review (delta-PDR). In accordance with AOC 10.2 Milestone Decision Authority (MDA) direction (23 Jun 2010), the AOC 10.2 Modernization program conducted prototyping and Limited Early Install (LEI) activities through an iterative build methodology prior to Milestone B (MS B) to reduce integration risk and improve user feedback in the acquisition process.

PE 0207410F: Air & Space Operations Center (AOC)

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force			Date: N	larch 2014		
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207410F I Air & Space Operations Center (AOC)	Project (Number/Name) 675117 I Integration Development				
Activities also include studies and analysis to support both current prog	ram planning and execution, as well as future progr	am planning.				
In FY13, AOC 10.2 is PRCP Program Number (PNO) N42. In FY14, AOC 10.2 is PNO N46. Beginning in FY15, AOC 10.2 is PNO N	91					
B. Accomplishments/Planned Programs (\$ in Millions)		FY	2013	FY 2014	FY 2015	
Title: AOC WS Inc 10.2			48.736	-		
<b>Description:</b> AOC 10.2 infrastructure modernization and mission capal Centric infrastructure with a Services Oriented Architecture.	pility integration. Development of a robust, open, Ne	t-				
FY 2013 Accomplishments: Accomplished pre-EMD activities on the Modernization contract to obta prototyping, LEI activities, Warfighter Assessment Workshops, and Delireduction and operational feedback.		rstem				
<b>FY 2014 Plans:</b> N/A						
<b>FY 2015 Plans:</b> N/A						
Title: AOC WS Inc 10.2 Test and Evaluation			0.593	-	-	
Description: Test and Evaluation						
FY 2013 Accomplishments: Planned and implemented comprehensive testing (in-plant integration a Developmental Test and Evaluation (DT&E), and Operational Test and included test planning, conducting, and documentation review.		ts				
<b>FY 2014 Plans:</b> N/A						
	Accomplishments/Planned Programs Su	btotals	49.329	-		

PE 0207410F: Air & Space Operations Center (AOC)
Air Force

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Exhibit R-2A, RDT&E Project Justi	ification: PB	2015 Air Fo	ce	,		'			Date: Ma	rch 2014	
Appropriation/Budget Activity 3600 / 7	600 / 7					nent (Numb & Space Op	,	, ,	Number/Na Integration	i <b>me)</b> Developmer	nt
C. Other Program Funding Summa	ary (\$ in Milli	ons)								_	
			FY 2015	FY 2015	FY 2015	->//-	->/ /-	->/ /-	=>/ 00/0	Cost To	
<u>Line Item</u>	FY 2013	FY 2014	<u>Base</u>	<u>000</u>	<u>Total</u>	FY 2016	FY 2017	FY 2018	FY 2019	Complete	Total Cost
• RDTE: BA04: PE 0604458F:	-	58.861	-	-	-	-	-	-	-	-	194.370
AOC Increment 10.2											
• RDTE: BA05: PE 0605458F:	-	-	85.938	-	85.938	47.946	-	-	-	-	135.509
AOC Increment 10.2											
OPAF: BA03: Line Item	27.623	22.974	23.690	-	23.690	12.033	12.439	7.524	7.780	Continuing	Continuing
# 834530: Air & Space											
Operations Ctr - WPN SYS											
OPAF: BA03 Line Item	-	-	-	_	_	24.405	51.283	43.585	32.313	286.340	437.926
# 834560: Air and Space											
Operations Ctr Inc.10.2											

#### Remarks

## D. Acquisition Strategy

The acquisition strategy builds on existing capabilities using evolutionary acquisition to standardize, modernize and sustain the AOC. The AOC Modernization Contract was competitively awarded on 25 October 2011, but due to contract protests and associated delays, the actual start date was 20 December 2011. The Modernization contractor is using a system of systems perspective, and is following systems engineering rigor, to evolve AOC to a Net-Centric environment, compliant with DoD Services Oriented Architecture (SOA) standards.

### **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.

PE 0207410F: Air & Space Operations Center (AOC) Air Force

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					UN	ICLAS	SIFIED								
Exhibit R-3, RDT&E F	Project C	ost Analysis: PB 2	2015 Air F	orce								Date:	March 20	14	
Appropriation/Budge 3600 / 7	t Activity	1										: (Numbe I Integrat	r/ <b>Name)</b> ion Develo	opment	
Product Developmen	nt (\$ in Mi	illions)		FY 2	2013	FY:	2014		2015 ise		2015 CO	FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
10.1 Integration & Version Upgrades	C/CPAF	Lockheed Martin- WSI : Colorado Springs, CO	67.247	-		-		-		-		-	-	67.247	67.823
10.1 Integration & Version Upgrades (Organic)	Various	Various : Various,	3.396	-		-		-		-		-	-	3.396	3.34
IAMD	TBD	TBD : TBD,	1.490	-		-		-		-		-	-	1.490	17.762
10.2 Modernization	Various	Various : Various,	22.969	8.553		-		-		-		-	-	31.522	-
10.2 Modernization Contract	C/Various	Northrop Grumman : Herndon, VA	85.863	31.019	Dec 2012	-		-		-		-	-	116.882	119.000
Training	C/Various	Various : Various,	11.471	-		-		-		-		-	-	11.471	-
Prototyping	C/CPFF	Jacobs : Hanscom AFB, MA	20.559	-		-		-		-		-	-	20.559	7.000
		Subtotal	212.995	39.572		-		-		-		-	-	252.567	214.92
Support (\$ in Million	s)			FY 2	2013	FY:	2014	FY 2	2015 ise		2015 CO	FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	-	-		-		-		-		-	-	-	_
Test and Evaluation	(\$ in Milli	ons)		FY 2	2013	FY:	2014		2015 ise		2015 CO	FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test 10.1 Integration and Version Upgrades	Various	Various : Various,	7.421	-	Nov 2012			-		-		-	-	7.421	-
Test 10.2 Modernization	Various	Various : Various,	0.300	0.593	Oct 2012	-		-		-		-	-	0.893	-
		Subtotal	7.721	0.593		-		-		-		-	-	8.314	-

PE 0207410F: Air & Space Operations Center (AOC)

Air Force

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

Appropriation/Budget Activity
3600 / 7

R-1 Program Element (Number/Name)
PE 0207410F / Air & Space Operations
Center (AOC)

Project (Number/Name)
675117 / Integration Development

Management Servic	es (\$ in M	lillions)		FY	2013	FY :	2014		2015 ase		2015 CO	FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering	SS/ Various	MITRE : Bedford, MA	19.459	4.268	Oct 2012	-		-		-		-	-	23.727	-
Program Management Administration	Various	Various : Hanscom AFB, MA	24.409	4.896	Oct 2012	-		-		-		-	-	29.305	-
		Subtotal	43.868	9.164		-		-		-		-	-	53.032	-
			Prior Years	FY	2013	FY	2014		2015 ase		2015 CO	FY 2015 Total	Cost To	Total Cost	Target Value of Contract

#### Remarks

In FY 2014, project number 675117, Integration Development, AOC Increment 10.2, efforts were transferred to PE 0604458F, project number 644945, AOC Increment 10.2, in order to improve transparency of ACAT 1 Acquisition programs.

49.329

In FY 2015, PE 0604458F, Air & Space Ops Center project number 644945 AOC Increment 10.2, development efforts were transferred to PE 0605458F Air & Space Ops Center 10.2 project number 654945, AOC 10.2 Development, in order to align post Milestone B development efforts with funding in RDT&E Budget Activity 05, System Development & Demonstration (SDD).

PE 0207410F: Air & Space Operations Center (AOC) Air Force

Project Cost Totals

264.584

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R-1 Line #152

313.913

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force

Appropriation/Budget Activity
3600 / 7

R-1 Program Element (Number/Name)
PE 0207410F / Air & Space Operations
Center (AOC)

Project (Number/Name)
675117 / Integration Development

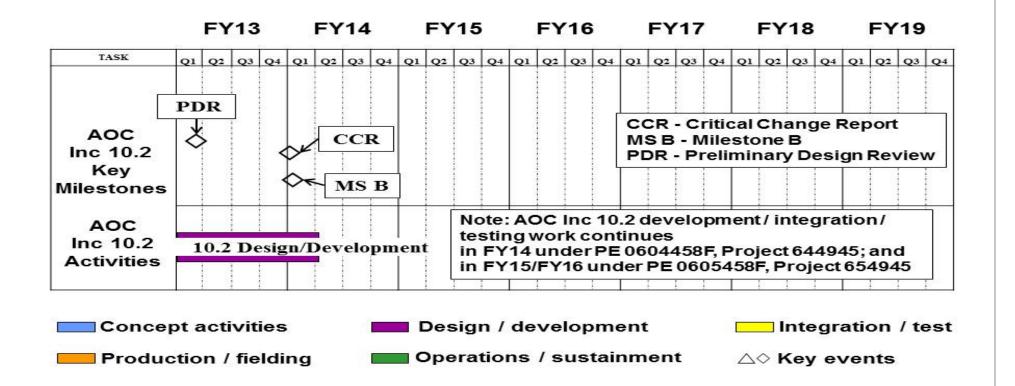


Exhibit R-4A, RDT&E Schedule Details: PB 2015 Air Force		Date: March 2014
11	 - 3 (	umber/Name) ntegration Development

# Schedule Details

	St	art	E	nd
Events	Quarter	Year	Quarter	Year
AOC Increment 10.2 Preliminary Design Review (PDR)	1	2013	1	2013
AOC Increment 10.2 Critical Change Report (CCR)	1	2014	1	2014
AOC Increment 10.2 Milestone B (MS B)	1	2014	1	2014
AOC Increment 10.2 Design / Development	1	2013	2	2014

PE 0207410F: Air & Space Operations Center (AOC) Air Force

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2015 A	Air Force							Date: Marc	ch 2014		
Appropriation/Budget Activity 3600 / 7	•				_	10F <i>I Air</i> & S	t (Number/ Space Opera	•	Project (Number/Name) 675218 / Applications Development				
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
675218: Applications Development	-	15.771	14.796	29.550	-	29.550	11.588	7.496	7.643	7.789	Continuing	Continuing	
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-			

<sup>&</sup>lt;sup>#</sup> The FY 2015 OCO Request will be submitted at a later date.

### A. Mission Description and Budget Item Justification

This project funds operational development necessary to acquire, modify, and sustain segments of Air Force's Command and Control (C2) capabilities and services. Applications Development provides worldwide operational capabilities for AF C2 in support of DoD, Coalition Partners, and other government agencies. These efforts focus on, but are not limited to, support of the Joint Forces Air Component Commander (JFACC) that provides air, space and cyber support as presented to the AOC and to other C2 systems. Applications Development efforts deliver capabilities identified in the Joint Command and Control (JC2) Capability Development Document (CDD) (2013). Applications Development activities include but are not limited to the following: 1) Command and Control Air Operations Suite-Command and Control Information Services (C2AOS-C2IS) needs identified in the Capability Definition Package (CDP) (2012). C2AOS-C2IS I creates web-enabled information services to expose air operations data using standardized schemas, such as those developed by the Air Operations Community of Interest (AO COI). C2AOS-C2IS I also develops, matures, fields, and maintains modular net-centric C2 applications for air battle planning, execution, and management functions to include Network Enabled Weapons (NEW); 2) Command and Control Air Operations Suite-Command and Control Information Services II (C2AOS-C2IS II) will focus on but not be limited to, the remainder of CDP and Theater Battle Management Core Systems-Force Level (TBMCS-FL) functionality not addressed in C2AOS-C2IS I as well as providing new C2 capabilities for planning and execution of 4th & 5th Generation Fighter Platforms, interoperability with other evolving Global Command & Control System Family of Systems (GCCS FoS) and other Service programs, and for Force Level data migration; and 3) Personnel Recovery Command and Control (PRC2) program which develops and delivers tools and services for collaborating, planning and managing search and rescue efforts, and disseminating related information. The Joint Personnel Recovery Initial Capabilities Document (ICD) (2012) articulates capabilities needed for PRC2.

Core activities for Applications Development include but are not limited to the following: 1) developing capabilities to support planning and replanning of the Air Battle Plan: generation and dissemination of the Air Tasking Order; defense planning and execution; targeting; weaponeering; personnel recovery tasks; other applications and services supporting C2 in the joint environment; 2) providing support to and participating in the Air Operations Community of Interest (AO COI) to improve air operations information interoperability among all joint and coalition systems within the Air Operations (AO) domain; 3) developing and assessing C2 air, space, intelligence, surveillance, reconnaissance, and cyber technologies that will improve joint and coalition warfighter interoperability, including participation in North Atlantic Treaty Organization (NATO) and Coalition interoperability exercises, demonstrations, trials, and activities; 4) transitioning existing C2 capabilities to a net-centric environment; and 5) improving operational level C2 of Integrated Air and Missile Defense (IAMD). Applications Development efforts include evaluation and maturation of future air, space, and cyber C2 concepts identified through research, risk reduction, prototyping, current operations, exercises, and demonstrations.

Activities also include studies and analysis to support both current program planning and execution, as well as future program planning.

PE 0207410F: Air & Space Operations Center (AOC)

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force			Date: M	arch 2014			
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207410F I Air & Space Operations Center (AOC)		Project (Number/Name) 675218 I Applications Development				
This program is in Budget Activity 7, Operational System Develop fielded or have received approval for full rate production and anti-			upgrade syst	ems that hav	e been		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2013	FY 2014	FY 2015		
Title: NATO			0.430	0.435	0.43		
<b>Description:</b> NATO and International Cooperation Research and surveillance, reconnaissance and cyber Information Exchange Resystems to promote interoperability.		alition					
<b>FY 2013 Accomplishments:</b> Developed technologies to improve joint and coalition warfighter o	capability.						
FY 2014 Plans: Continue to develop technologies that improve joint and coalition	warfighter capability.						
FY 2015 Plans: Continue with the development of technologies that improve joint	and coalition warfighter capability.						
Title: C2AOS-C2IS I			11.827	12.384	20.83		
<b>Description:</b> C2AOS-C2IS I develops modular net-centric C2 applications and creates web-enabled information services to exposistandardized schemas including Capablility Packages (CP) 1 & 2	e air operations data in TBMCS applications and systems						
- CP 1: Air Tasking Order Management System (ATOMS), Reque Network Enabled Weapons (NEW)	est Information Services for Command and Control (RISC2	) &					
- CP 2: IAMD Planner and Airspace Management Application - Ai	rspace Information Service (ASMA - ASIS)						
FY 2013 Accomplishments:  Awarded Fixed Price Incentive Firm contract 21 Dec 2012 for ATC Request Information Services for C2 (RISC2) capabilities. Complete	eted and awarded follow-on contract(s) for but not limited t	o the					
<b>FY 2014 Plans:</b> Continue with the development of but not limited to ATOMS, RISC and potential fielding of ATOMS & RISC2.	C2, ASMA-ASIS and C2 of IAMD capabilities. Beginning to	esting					
FY 2015 Plans:							

PE 0207410F: Air & Space Operations Center (AOC) Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force			Date: N	larch 2014	
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207410F I Air & Space Operations Center (AOC)	<b>Project</b> 675218 /	nent		
B. Accomplishments/Planned Programs (\$ in Millions)		F	FY 2013	FY 2014	FY 2015
Will continue with the development of but not limited to ATOMS, R testing and potential fielding of ATOMS, RISC2, ASMA-ASIS & IAI	·	ng			
Title: PRC2			2.170	-	-
<b>Description:</b> PRC2 develops and delivers tools and services for defforts, and disseminating related information. The system collects emergency locator beacon registrations, isolated personnel reports management capabilities for predictive, preventive and personnel Recovery across Department of Defense and other national and in	s, stores and delivers personnel/identity biometric data, s, evasion plans of action, incident reports and other inforvulnerability analysis/assessment in support of Personnel				
FY 2013 Accomplishments: Tested and supported the fielding decision for PRMS Mission Man captures data regarding events, collaborates and automates event requirements for multiple increments of Mission Manager with a Joneeds/priorities.	t information collection for incident reports. Refined				
FY 2014 Plans: In FY 2014, Personnel Recovery Command and Control (PRC2), e Recovery Command and Control (PRC2).	efforts can be found under project number 675221, Person	nnel			
<b>FY 2015 Plans:</b> N/A					
Title: C2AOS-C2IS II			0.298	0.877	6.53
<b>Description:</b> C2AOS-C2IS II develops modular net-centric C2 applications and creates web-enabled information services to expose standardized schemas. As well as providing new C2 capabilities fGCCS FoS and other Service programs, and for Force Level data	e air operations data in TBMCS applications and systems for planning, execution and interoperability with other evolves.	using			
FY 2013 Accomplishments:  Developed the remainder of TBMCS-FL functionality not addresse planning and execution of 4th & 5th Generation Fighter Platforms, Service programs, and Force Level data migration.					
FY 2014 Plans:					

PE 0207410F: Air & Space Operations Center (AOC) Air Force

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Exhibit it 27, its rat i rojott datination i is 20 io 7 ii rojot				Dutor march 2011				
Appropriation/Budget Activity 3600 / 7	_	Project (Number/Name) 375218 I Applications Development						
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2013	FY 2014	FY 2015			
Planning for the development of the remainder of TBMCS-FL function FoS and other Service programs, and for Force Level data migration better requirements refinement.								
FY 2015 Plans: Will continue to plan for and execute the development of the remaind other evolving GCCS FoS and other Service programs, and for Force protyping to allow for better requirements refinement.								
Title: Test and Evaluation			1.046	1.100	1.752			
Description: Test and Evaluation								
FY 2013 Accomplishments: Test and Evaluation focused on DT&E and OT&E, which included tes	st planning, conduct and documentation review.							
FY 2014 Plans: Test and Evaluation continuing to focus on DT&E and OT&E, to inclu	de test planning, conduct and documentation review.							
FY 2015 Plans: Test and Evaluation will continue to focus on DT&E and OT&E, to inc	clude test planning, conduct and documentation review							
	Accomplishments/Planned Programs Su	btotals	15.771	14.796	29.550			

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

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force

			<u>FY 2015</u>	<u>FY 2015</u>	FY 2015					Cost To	
<u>Line Item</u>	FY 2013	FY 2014	<b>Base</b>	000	<u>Total</u>	FY 2016	FY 2017	FY 2018	FY 2019	Complete	<b>Total Cost</b>
<ul> <li>OPAF: BA03: Line Item</li> </ul>	1.205	-	-	-	-	-	-	-	=	Continuing	Continuing
# 00 4500. The star Dettle											1

# 834520: Theater Battle Management C2 System

#### Remarks

# D. Acquisition Strategy

Projects will be awarded following full and open competition and will use an evolutionary acquisition strategy based on incremental development leveraging the C2 Applications and Information Services Development (C2AD) Indefinite Delivery/Indefinite Quantity (ID/IQ) contract.

PE 0207410F: Air & Space Operations Center (AOC) Air Force

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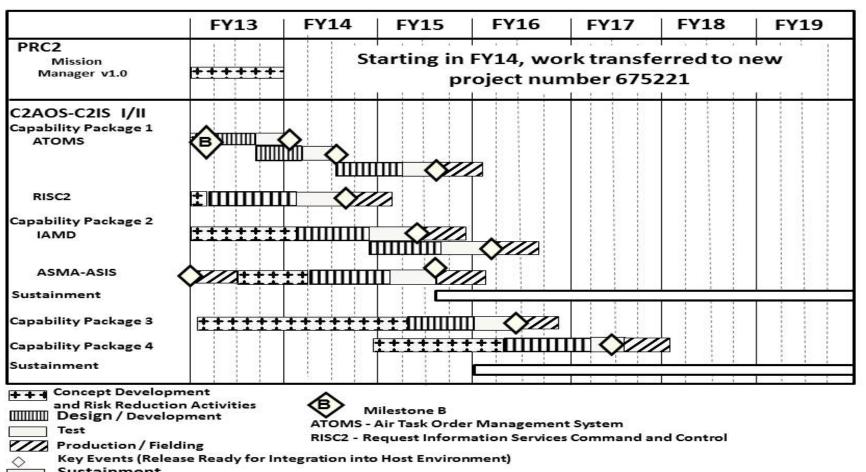
R-1 Line #152

Date: March 2014

xhibit R-2A, RDT&E Project Justification: PB 2015 A	ir Force	Date: March 2014		
ppropriation/Budget Activity 600 / 7	R-1 Program Element (Number/Name) PE 0207410F I Air & Space Operations Center (AOC)	Project (Number/Name) 675218 I Applications Development		
. Performance Metrics				
	Book for information on how Air Force resources are applied and	how those resources are contributing to A		
Force performance goals and most importantly, how the	y contribute to our mission.			

PE 0207410F: Air & Space Operations Center (AOC) Air Force

Exhibit R-4. RDT&E Schedule Profile: PB 2015 Air Force Date: March 2014 **Appropriation/Budget Activity** R-1 Program Element (Number/Name) Project (Number/Name) PE 0207410F I Air & Space Operations 3600 / 7 675218 I Applications Development Center (AOC)



Sustainment

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force										Date: March 2014		
Appropriation/Budget Activity					, , , , ,				, ,	lumber/Name)		
3600 / 7				PE 0207410F I Air & Space Operations 675220 I U				07522070	Jnit Levei			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO <sup>#</sup>	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
675220: Unit Level	-	5.825	5.397	9.100	-	9.100	7.311	7.803	7.956	8.107	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

<sup>\*</sup> The FY 2015 OCO Request will be submitted at a later date.

complichments/Planned Programs (\$ in Millions)

### A. Mission Description and Budget Item Justification

This project funds operational development to develop, integrate, field, and maintain Unit Level / Unit Command and Control (UL/UC2) as an evolving sequence of increasing software capabilities that support the execution of the air battle plan and the air tasking order message received from the AOC. UL/UC2 operations software systems meet needs identified in the TBMCS Operational Requirements Document (ORD) (2001) by providing both the scheduling and mission preparation activities at the wing, group and squadron level, and the capabilities to report and track the success of each mission and influence decisions on future air battle planning. UL/ UC2, also referred to as Unit Command and Control (UC2), is fielded to the Wing Operations Center (WOC), the Maintenance Operations Center (MOC), the Squadron Operations Center (SOC), and many other work-centers. UC2 requirements will be identified using the system modification request process.

Activities also include studies and analysis to support both current program planning and execution, as well as future program planning.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: Software Development	5.120	4.997	8.550
Description: UL/UC2 and UC2 capabilities development/integration.			
FY 2013 Accomplishments: Completed testing of UL/UC2 Ops Increment 2. Finished planning activities for UC2 MR1 which provided migration of UL/UC2 into a service oriented infrastructure capable of meeting the Net-Ready key performance parameter, implementing elements of the Installation Control Center (ICC) Enabling Concept.			
FY 2014 Plans: Writing the UC2 MR1 System Requirements Document and program office cost estimate. Planning for and awarding of the contract for UC2 MR1. UC2 MR1 will provide service oriented infrastructure capable of meeting the Net-Ready key performance parameters. Accelerating should cost initiatives for virtualization and open source replacement of application server software into Inc2 Service Patch 3 (SP3).			
FY 2015 Plans: Complete development of UC2 MR1. Begin testing of MR1 and prepare for fielding. Start UC2 MR2 planning.			
Title: Testing and Test Support	0.705	0.400	0.550

PE 0207410F: Air & Space Operations Center (AOC) Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force			Date: March 2014
· · · ·	` ` '	<b>Project (N</b> 675220 / U	umber/Name) Init Level

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	EV 204 <i>E</i>
		-	FY 2015
Description: Testing and test support activities.			
FY 2013 Accomplishments: Completed testing and test support activities for UL/UC2 Ops Increment 2 and Inc 2 Service Pack 1 (SP1).			
FY 2014 Plans: Continue testing and evaluation involved in UL/UC2 Inc 2 SP2. Starting Inc 2 SP3 testing.			
FY 2015 Plans: Will continue testing and evaluation of UL/UC2 Inc 2 SP3. Start testing on UC2 MR1.			
Accomplishments/Planned Programs Subtotals	5.825	5.397	9.100

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

			FY 2015	FY 2015	FY 2015					Cost To	
<u>Line Item</u>	FY 2013	FY 2014	<b>Base</b>	OCO	<u>Total</u>	FY 2016	FY 2017	FY 2018	FY 2019	<b>Complete</b>	<b>Total Cost</b>
<ul> <li>OPAF: BA03: Line Item</li> </ul>	3.873	3.247	3.825	-	3.825	3.950	4.161	4.235	4.311	Continuing	Continuing
# 834520: Theater Battle										_	-

# 834520: Theater Battle

Management C2 System

### Remarks

## D. Acquisition Strategy

Projects will be awarded following full and open competition and will use an evolutionary acquisition strategy based on incremental development while incorporating agile testing principals

## 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.

PE 0207410F: Air & Space Operations Center (AOC)

Air Force

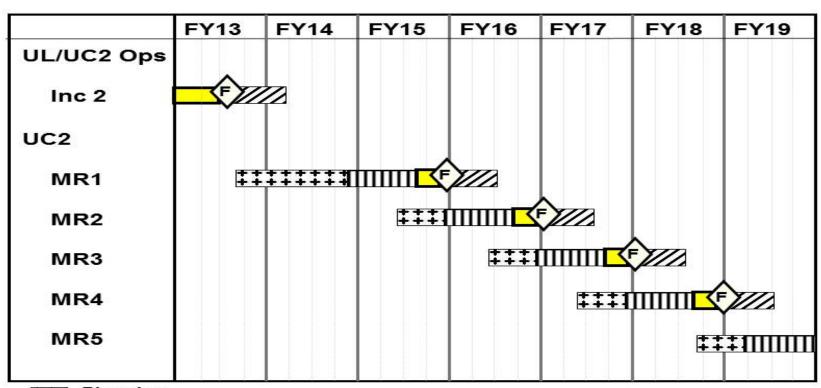
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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force

Appropriation/Budget Activity
3600 / 7

R-1 Program Element (Number/Name)
PE 0207410F / Air & Space Operations
Center (AOC)

Project (Number/Name)
675220 / Unit Level



Planning
Development
Test
Fielding decision

UL/UC2 - Unit Level / Unit Command and Control Inc 2 - Increment 2 UC2 - Unit Command and Control MR - Modernization Release △ ♦ Key events

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R-1 Line #152

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force										Date: March 2014		
Appropriation/Budget Activity 3600 / 7					PE 0207410F I Air & Space Operations 6752				675221 <i>Ì F</i>	Dject (Number/Name) 5221 I Personnel Recovery Command d Control (PRC2)		
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
675221: Personnel Recovery Command and Control (PRC2)	-	-	2.139	2.416	-	2.416	2.434	2.435	2.482	2.529	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

<sup>&</sup>lt;sup>#</sup> The FY 2015 OCO Request will be submitted at a later date.

#### Note

Air Force

FY 2013 Personnel Recovery Command and Control (PRC2) efforts can be found under project number 675218, Applications Development, Personnel Recovery Command and Control (PRC2).

### A. Mission Description and Budget Item Justification

This project funds operational development necessary to acquire, modify, and sustain a segment of Air Force's C2 capabilities and services associated with Personnel Recovery. The Personnel Recovery Command and Control (PRC2) program develops and delivers tools and services for planning, collaborating and managing search and rescue efforts, as well as disseminating related information to all personnel recover mission coordinators across PR network. PRC2 provides an adaptive, networked, decentralized and timely situational awareness information for personnel recovery supporting personnel accountability and recovery missions worldwide. PRC2 delivers a globally accessible, collaborative, interoperable and integrated system to prevent, prepare for and respond to isolating events across a broad spectrum of US government which may include in the joint/coalition military and civilian rescue mission. The Joint Personnel Recovery (JPR) ICD (2012) articulates capabilities needed for PRC2.

The system collects, stores and delivers personnel/identity biometric data, emergency locator beacon registrations, isolated personnel reports, evasion plans of action, incident reports and other information management capabilities. The information is used for predictive, preventive and personnel vulnerability analysis and assessment in support of Personnel Recovery across Department of Defense and other national and international entities.

Activities also include studies and analysis to support both current program planning and execution, as well as future program planning.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: PRC2	-	2.039	2.216
<b>Description:</b> Personnel Recovery Command and Control (PRC2) developing and delivering tools and services for planning and managing search and rescue efforts, and disseminating related information.			
FY 2013 Accomplishments: N/A			
FY 2014 Plans:			

PE 0207410F: Air & Space Operations Center (AOC)

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force			Date: N	larch 2014		
Appropriation/Budget Activity 3600 / 7	675221 <i>Ì P</i>	iject (Number/Name) 221 I Personnel Recovery Command I Control (PRC2)				
B. Accomplishments/Planned Programs (\$ in Millions)		FY	2013	FY 2014	FY 2015	
Developing and delivering Personnel Recovery Mission Software (PF with Internet Explorer 9/10. Developing and delivering PRMS 2.1.8 w joint users and to support future PR Mission Manager (PRMM) developed Search Widgets: Provides the capability to query the PRMS/Joint SAllogging into the PRMS website. Search Widgets also provide advance Continue developing PRMM Capability Mission Folders: Allows for misingle case file.	reb services to enable net-centric capability exposing data opment. Developing and delivering PRMM initial capabili RSAT Electronic Tracking System (JSETS) database with ced search definitions not available via the PRMS website.	ty, nout e.				
FY 2015 Plans: PRMS 3.1.0 development will continue in FY15. This will normalize to centric capability while reducing lifecycle costs. PRMS 3.2.0 virtualize provide increased availability and more robust security while decrease Mission Folders. Will develop PRMS 4.0 Mission Manager creating a Coordinator (JPRC)/Personnel Recovery Coordinator Cell to access this will provide situational awareness including geo-spatial visualizational Air Tasking Order data.	ation development will continue in FY15. Virtualization wing sustainment costs. Will continue to develop PRMS 3 collaborative environment for the Joint Personnel Recovisituational awareness data to recover isolated personnel.	:3.0 ery				
Title: Test and Evaluation			-	0.100	0.20	
Description: Test and Evaluation						
FY 2013 Accomplishments: N/A						
FY 2014 Plans: Continuing Test and Evaluation focusing on testing activities to integr Search Widget. Bringing test suites up to PRMS 2.1.8 baseline. Follo support the development of Mission Manager in the Joint environment	ow on activities focusing on finalizing test documentation					
FY 2015 Plans: Continuing Test and Evaluation will focus on test activities to field 3.1 Folder capability. Follow on activities will focus on finalizing test documents.		er in				
	Accomplishments/Planned Programs Subto	otals	_	2.139	2.4	

PE 0207410F: Air & Space Operations Center (AOC) Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force			Date: March 2014	
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	lumber/Name)	
3600 / 7	PE 0207410F I Air & Space Operations	675221 I Personnel Recovery Comm		
	Center (AOC)	and Contro	ol (PRC2)	
C Other Program Funding Summary (\$ in Millions)	,			

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

			FY 2015	FY 2015	FY 2015					Cost To	
<u>Line Item</u>	FY 2013	FY 2014	Base	OCO	<b>Total</b>	FY 2016	FY 2017	FY 2018	FY 2019	Complete	<b>Total Cost</b>
<ul> <li>OPAF: BA03: Line Item</li> </ul>	-	1.240	1.261	-	1.261	1.270	1.279	1.302	1.325	Continuing	Continuing
# 834520: Theater Battle											

Management C2 System

# Remarks

## D. Acquisition Strategy

Projects will be awarded following full and open competition and will use an evolutionary acquisition strategy based on incremental development.

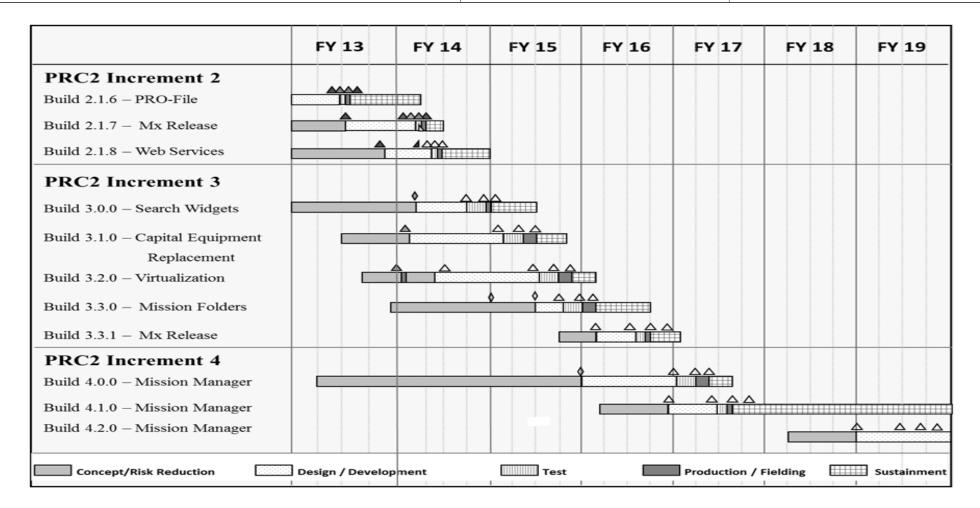
## **E. Performance Metrics**

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.

PE 0207410F: Air & Space Operations Center (AOC) Air Force

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force	Date: March 2014		
Appropriation/Budget Activity 3600 / 7	,	Project (Number/Name) 675221 / Personnel Recovery Command	
	Center (AOC)	and Contro	-



Air Force