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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2012 Air Force **DATE:** February 2011

<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0208006F: <i>Mission Planning Systems</i>							
<b>COST (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	76.650	83.555	69.918	-	69.918	72.037	78.534	90.995	92.164	Continuing	Continuing
673858: <i>Mission Planning Systems (MPS)</i>	74.776	37.273	29.991	-	29.991	30.092	33.651	35.381	37.398	Continuing	Continuing
675302: <i>Mobility Air Forces (MAF) Planning Systems</i>	1.874	6.110	4.256	-	4.256	4.340	8.557	15.309	17.458	Continuing	Continuing
675380: <i>Combat Air Forces (CAF) Planning Systems</i>	-	40.172	35.671	-	35.671	37.605	36.326	40.305	37.308	Continuing	Continuing

**Note**

In FY 2011, some Project 673858, Mission Planning Systems, efforts were transferred to PE 0208006F, Mission Planning Systems, Project 675302, Mobility Air Forces Planning Systems (previously titled Precision Aerial Delivery System) and Project 675380, Combat Air Forces Planning Systems, in order to more accurately group and reflect the products being developed within the program.

CY funding totals include \$4.443 for Overseas Contingency Operations (OCO).

The program funding includes reductions for overhead efficiencies that are not intended to impact program content. The efficiencies reductions total \$2.664M in FY12.

**A. Mission Description and Budget Item Justification**

Mission planning involves the creation of a flight plan based on threats, targets, terrain, weather, aircraft performance capability, and configuration. It is an essential task that must be completed prior to any fixed or rotary wing aircraft sortie. The planner must have the ability to plan weapon, cargo, passenger, and/or fuel delivery, calculate fuel requirements, and assess the route based on known enemy threat location and type. Mission planners must be able to optimize and de-conflict flight routes with other aircraft; review, print, and brief the mission plan; and download pertinent flight information to on-board aircraft avionics.

The Mission Planning Systems (MPS) program is a collaborative program with the Army and Navy to leverage technical solutions and business practices for all Department of Defense (DoD) platforms. It provides automated mission-planning tools and support for fixed and rotary wing aircraft and guided munitions. It will replace two closed architecture legacy mission planning systems (Unix-based MPS (Unix-MPS) and the PC-based Portable Flight Planning Software (PFPS)), with a single multi-service open architecture system more commonly referred to as the Joint Mission Planning System (JMPS). MPS will compress the mission planning cycle by providing an improved integrated planning environment, reducing the time required to respond to changing situations and urgent needs such as striking time sensitive/critical targets and conducting combat search and rescue. The MPS development program will migrate a variety of Air Force aircraft, weapons, and airdrop payload systems from legacy mission planners to MPS. These systems include the A-10, B-1B, C-5, C-17, C-130, E-3, E-8, F-15, F-16, F-22A, RC-135, HH-60, and their associated weapons (e.g. Small Diameter Bomb (SDB), Joint Direct Attack Munitions (JDAM), Joint Air-to-Surface Standoff Munitions (JASSM), etc...) and airdrop payloads. In addition, basic MPS products have the potential to support all DoD fixed-wing and rotary-wing aircraft and will be shared with other AF programs as

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well as the Army and Navy. MPS will deliver significant benefits to command and control performance by enhancing information superiority for the warfighter and by providing unique capabilities in support of both precision engagement and dominant maneuver. Additionally, elements of Mission Planning Systems will be utilized to continue the development of a Joint Precision Airdrop System (JPADS) in conjunction with the Army.						
The JPADS System of Systems (SoS) capability provides a planning and execution capability for DoD airdrop requirements. It is the primary airdrop mission planning and execution system when the mission profile or surface-to-air threat assessment warrants a high-altitude and/or standoff precision delivery. JPADS enables high-altitude, precise airdrop delivery to forward ground forces, mitigating surface-to-air threats, reducing risk of Improvised Explosive Device (IED) & insurgent attack on ground convoys. JPADS allows the warfighter to consider weather, terrain, aircraft capabilities, threat, etc...to accurately deliver payload.						
This program is in Budget Activity 7, Operational System Development because this budget activity 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 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget		81.577	79.112	74.172	-	74.172
Current President's Budget		76.650	83.555	69.918	-	69.918
Total Adjustments		-4.927	4.443	-4.254	-	-4.254
• Congressional General Reductions			-			
• Congressional Directed Reductions			-			
• Congressional Rescissions		-	-			
• Congressional Adds			-			
• Congressional Directed Transfers			-			
• Reprogrammings		-2.100	-			
• SBIR/STTR Transfer		-2.485	-			
• Other Adjustments		-0.342	4.443	-4.254	-	-4.254
Change Summary Explanation						
FY11 increase of \$4.443M for Overseas Contingency Operations (OCO).						

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0208006F: Mission Planning Systems				PROJECT 673858: Mission Planning Systems (MPS)			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
673858: Mission Planning Systems (MPS)	74.776	37.273	29.991	-	29.991	30.092	33.651	35.381	37.398	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

**A. Mission Description and Budget Item Justification**

Mission planning involves the creation of a flight plan based on threats, targets, terrain, weather, aircraft performance capability and configuration. It is an essential task that must be completed prior to any fixed or rotary wing aircraft sortie. The planner must have the ability to plan weapon, cargo, passenger, and/or fuel delivery, calculate fuel requirement and assess the route based on known enemy threat location and type. Mission planners must be able to optimize and de-conflict flight routes with other aircraft; review, print and brief the plan; and download pertinent flight information to on-board aircraft avionics.

This project provides for the continuous improvement of mission planning software capabilities that cut across all platforms and systems. It includes all FY10 and prior development activities for migrating selected CAF and MAF platforms to MPS. It also allows for the investigation of new technologies and products that have the potential for improving mission planning systems. This includes the continuous upgrading of the MPS framework. The framework is the underlying baseline for all mission planning systems. It will require continuous upgrades to: 1) reduce timelines for route planning; 2) transmit near real-time intelligence data to the platforms; 3) increase the accuracy of the mapping products; 4) provide a Windows-based, Commercial Off The Shelf-based, user friendly product; and 5) retain compatibility with platform changes to avionics and operational flight programs. Development and modernization activities within this project are as follows:

- a. MPS Increment III - completes all FY10 and prior year development activities to migrate selected CAF and MAF platforms to the MPS Increment III planning systems capability. This includes the initial migration of all designated Increment III platforms.
- b. MPS Increment IV - continues all FY10 and prior year development activities to migrate selected CAF and MAF platforms to the MPS Increment IV planning systems capability. This includes the initial migration of all designated Increment IV platforms. FY2011 and outyear development activities for Increment IV will be completed as part of respective projects for CAF and MAF planning systems.
- c. MPS Modernization - continues the modernization of overarching technologies (including the framework) to support development of Mission Planning Environments (MPEs) for various CAF and MAF platforms.
- d. Test, Training and Certification - continues all MPS-related integration, test, and certification activities for all CAF and MAF platforms.
- e. Operational and Technical Support - continues all program office management operations and support activities to ensure the timely delivery of mission planning systems to the warfighter.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force				DATE: February 2011		
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This program is in Budget Activity 7, Operational System Development because this budget activity 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. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<b>Title:</b> MPS Increment III Development  <b>Description:</b> Continue contractor-executed software development and test activities to migrate selected platforms to new MPS Increment III mission planning capability.  <b>FY 2010 Accomplishments:</b> Completed development of F-22 Increment 3.1 v11 unique planning component (UPC) software and integration of common components to deliver the F-22 MPE to support the Operational Flight Program Follow-on Test and Evaluation.  <b>FY 2011 Plans:</b> None - Initial development activities for Increment will be complete.  <b>FY 2012 Base Plans:</b> None - development activities for this activity are complete.  <b>FY 2012 OCO Plans:</b>		3.039	-	-	-	-
<b>Title:</b> MPS Increment IV Development  <b>Description:</b> Continue contractor-executed software development and test activities required to migrate selected CAF and MAF platforms to the new MPS Increment IV mission planning capability.  <b>FY 2010 Accomplishments:</b> Continued the development, integration and migration of selected AF platforms from legacy planning systems to MPS as well as continuing the development of framework 1.4 software.  <b>FY 2011 Plans:</b> Continue the development, testing, and fielding of FW 1.4 software.  <b>FY 2012 Base Plans:</b> None - development activities for this activity are complete.  <b>FY 2012 OCO Plans:</b>		19.325	7.322	-	-	-
<b>Title:</b> MPS Modernization		30.564	10.135	12.188	-	12.188

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<p><b>Description:</b> Continues development (i.e. modernization) of MPEs for previously migrated platforms to enable use of new capabilities being developed in the Operational Flight Programs (OFPs).</p> <p><b>FY 2010 Accomplishments:</b> Modernized previously-fielded mission planning software for selected platforms (e.g. B-1, F-15, and F-16 aircraft)</p> <p><b>FY 2011 Plans:</b> Conduct system engineering and integration activities to support the continued modernization of previously migrated Combat Air Forces (CAF) and Mobility Air Forces (MAF) platforms and requirements analysis for updates to the MPS Framework (FW 1.5).</p> <p><b>FY 2012 Base Plans:</b> Conduct system engineering and integration activities to support the continued modernization of previously migrated Combat Air Forces (CAF) and Mobility Air Forces (MAF) platforms and continue software development of Framework 1.5.</p> <p><b>FY 2012 OCO Plans:</b></p>						
<p><b>Title:</b> Test, Training and Certification</p> <p><b>Description:</b> Continues Test, Training, and Certification (TT&amp;C) activities to evaluate and ensure the operational performance of all newly developed and modernized MPS software and hardware.</p> <p><b>FY 2010 Accomplishments:</b> Conducted and supported formal Government testing of software and other development efforts for MPS Increment III, MPS Increment IV, and MPS modernization efforts.</p> <p><b>FY 2011 Plans:</b> Continue formal Government testing of software and other development efforts for MPS Increment IV and MPS modernization.</p> <p><b>FY 2012 Base Plans:</b> Continue formal Government testing for MPS Increment IV, and MPS modernization efforts.</p> <p><b>FY 2012 OCO Plans:</b></p>		9.526	9.412	8.846	-	8.846
<p><b>Title:</b> Operations/Technical Support</p>		12.322	10.404	8.957	-	8.957

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<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>		<b>R-1 ITEM NOMENCLATURE</b> PE 0208006F: <i>Mission Planning Systems</i>		<b>PROJECT</b> 673858: <i>Mission Planning Systems (MPS)</i>	

  

<b><u>B. Accomplishments/Planned Programs (\$ in Millions)</u></b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
<p><b>Description:</b> Continues all program management office technical and administrative activities and operations necessary to support development and fielding of all MPS capabilities.</p> <p><b>FY 2010 Accomplishments:</b> Provided technical support for MPS Increment III, MPS Increment IV and, MPS modernization activities.</p> <p><b>FY 2011 Plans:</b> Provide technical support for MPS Increment IV and MPS modernization efforts.</p> <p><b>FY 2012 Base Plans:</b> Provide technical support for MPS Increment IV and MPS modernization activities.</p> <p><b>FY 2012 OCO Plans:</b></p>					
<b>Accomplishments/Planned Programs Subtotals</b>	74.776	37.273	29.991	-	29.991

  

<b><u>C. Other Program Funding Summary (\$ in Millions)</u></b>												
	<b><u>Line Item</u></b>	<b><u>FY 2010</u></b>	<b><u>FY 2011</u></b>	<b><u>FY 2012 Base</u></b>	<b><u>FY 2012 OCO</u></b>	<b><u>FY 2012 Total</u></b>	<b><u>FY 2013</u></b>	<b><u>FY 2014</u></b>	<b><u>FY 2015</u></b>	<b><u>FY 2016</u></b>	<b><u>Cost To Complete</u></b>	<b><u>Total Cost</u></b>
•	N/A:	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

  

<b><u>D. Acquisition Strategy</u></b> Mission Planning Systems utilizes an evolutionary acquisition approach to develop and deliver an interoperable, network-centric, mission planning system tailored for numerous Air Force platforms using competition and multiple contract vehicles.
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<b><u>E. Performance Metrics</u></b> 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 2012 Air Force											DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT					
3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				PE 0208006F: Mission Planning Systems				673858: Mission Planning Systems (MPS)					
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Mission Planning Enterprise Contract	C/Various	Various:Various,	64.439	1.826	Nov 2010	-		-		-	0.000	66.265	TBD
Mission Planning Enterprise Contract II	C/Various	Various:Various,	15.290	1.332	Nov 2010	3.572	Nov 2011	-		3.572	Continuing	Continuing	TBD
Systems Engineering and Integration	C/Various	Various:Various,	26.915	14.300	Nov 2010	2.728	Nov 2011	-		2.728	Continuing	Continuing	TBD
MPS Modernization	C/Various	Various:Various,	8.131	-		12.188	Nov 2011	-		12.188	Continuing	Continuing	TBD
Subtotal			114.775	17.458		18.488		-		18.488			
Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Software Engineering Institute ( SEI)	C/TBD	SEI:Pittsburgh, PA	0.300	0.300	Nov 2010	0.292	Nov 2011	-		0.292	Continuing	Continuing	TBD
Tecolote	C/TBD	Tecolote Inc:Bedford, MA	0.560	0.577	Nov 2010	0.678		-		0.678	Continuing	Continuing	TBD
Subtotal			0.860	0.877		0.970		-		0.970			
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Responsible Test Organization (RTO)	PO	46TW:Eglin AFB, FL	7.543	8.140	Nov 2010	2.270	Nov 2011	-		2.270	Continuing	Continuing	TBD
Certification and Accreditation	MIPR	JITC:Indian Head, MO	0.071	0.064	Jan 2011	0.063	Jan 2012	-		0.063	Continuing	Continuing	TBD
Type I Training	PO	Ogden Air Logistics Center:Hill AFB, UT	2.178	1.208	Nov 2010	1.200	Nov 2011	-		1.200	Continuing	Continuing	TBD
Subtotal			9.792	9.412		3.533		-		3.533			

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2012 Air Force											<b>DATE:</b> February 2011			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0208006F: <i>Mission Planning Systems</i>				<b>PROJECT</b> 673858: <i>Mission Planning Systems (MPS)</i>						

  

<b>Management Services (\$ in Millions)</b>				<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
FFRDC Support	RO	Mitre Corp:Bedford, MA	4.673	4.870	Nov 2010	3.500	Nov 2011	-		3.500	Continuing	Continuing	TBD
Program Office Support	Various	Various:Various,	7.649	4.656	Nov 2010	3.500	Oct 2011	-		3.500	Continuing	Continuing	TBD
<b>Subtotal</b>			12.322	9.526		7.000		-		7.000			

  

	<b>Total Prior Years Cost</b>	<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>	137.749	37.273		29.991		-		29.991			

  

**Remarks**



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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0208006F: <i>Mission Planning Systems</i>	PROJECT 673858: <i>Mission Planning Systems (MPS)</i>

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Air Force			<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0208006F: <i>Mission Planning Systems</i>	<b>PROJECT</b> 673858: <i>Mission Planning Systems (MPS)</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Framework 1.4 Development & Test	1	2011	1	2012
Framework 1.4 Software Delivery	1	2012	1	2012
Framework 1.5 Preliminary Design Review	3	2012	3	2012
Integration / F-16 M6+	1	2012	1	2012
Integration / F-16 (SCU 8)	2	2012	2	2012
Integration / F-15 v3.2	2	2013	2	2013
Test / F-15 v3.0	2	2011	2	2011
Test / F-16 M6+	2	2012	2	2012

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APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0208006F: Mission Planning Systems				PROJECT 675302: Mobility Air Forces (MAF) Planning Systems			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
675302: Mobility Air Forces (MAF) Planning Systems	1.874	6.110	4.256	-	4.256	4.340	8.557	15.309	17.458	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

**Note**

CY funding totals include \$4.443M for Overseas Contingency Operations.

**A. Mission Description and Budget Item Justification**

Mission planning involves the creation of a flight plan based on threats, targets, terrain, weather, aircraft performance capability and configuration. It is an essential task that must be completed prior to any fixed or rotary wing aircraft sortie. The planner must have the ability to plan weapon, cargo, passenger, and/or fuel delivery, calculate fuel requirement and assess the route based on known enemy threat location and type. Mission planners must be able to optimize and de-conflict flight routes with other aircraft; review, print and brief the plan; and download pertinent flight information to on-board aircraft avionics. This project develops mission planning systems and related components for Mobility Air Forces (MAF) platforms. It completes (and then stops) development of a Mission Planning Environment (MPE) for a limited number of platforms that comprise the Tanker, Airlift and Special Mission (TASM) suite of aircraft (more commonly known as TASM Spiral 1). It will also modernize the mission planning software required for MAF mission planning, including versions required to keep pace with software and hardware upgrades to Spiral 1 aircraft (e.g. E-3, E-8) and common components such as Communication, Navigation, Surveillance/Air Traffic Management (CNS/ATM) and Air Refueling. The initial development and modernization efforts are as follows: Additionally, this project continues the development of a Joint Precision Airdrop System (JPADS) in conjunction with the Army. The JPADS System of Systems (SoS) capability provides a planning and execution capability for DoD airdrop requirements. It is the primary airdrop mission planning and execution system when the mission profile or surface-to-air threat assessment warrants a high-altitude and/or standoff precision delivery. JPADS enables high-altitude, precise airdrop delivery to forward ground forces, mitigating surface-to-air threats, reducing risk of Improvised Explosive Device (IED), and insurgent attack on ground convoys. JPADS allows the warfighter to consider weather, terrain, aircraft capabilities, threat, etc... to accurately deliver payload. The initial development and modernization efforts are as follows: a. Joint Precision Airdrop System (JPADS) - continues development of software required to provide a precision airdrop capability for AF and other services (i.e. the Army). b. MPS Increment IV - completes development of an MPE for the migration of a limited number of TASM aircraft [e.g. E-3, E-8, RC-135, HC-130]. It also upgrades several Common Components capabilities (e.g. weather) that support more than one platform. c. MAF Modernization - modifies MAF Mission Planning Environments (MPEs) developed and deployed during previous mission planning increments. The modernization activities will provide new and improved mission planning capabilities for individual MPEs as required to meet evolving Operational Flight Program (OFP) requirements, such as avionics upgrades, communication systems, etc... for various MAF platforms. The modernization effort will also complete a variety of studies and analyses to evaluate emerging Information Technology (IT) infrastructure technologies in support of future system upgrades. RATIONAL FOR OVERSEAS CONTINGENCY OPERATIONS (OCO) FUNDING: In FY11 OCO funds are required to refactor prototype software for the Joint Precision Airdrop System (JPADS) weather component. JPADS prototype hardware and software was rapidly fielded to provide an immediate capability for Operation ENDURING FREEDOM (OEF). The prototype weather software now needs to be re-factored to integrate into the AF C-130 and C-17 mission planning environment and provide extensibility and maintainability to meet increased ground force demands for airdrop missions in OEF. Airdrop requirements in OEF doubled in 2008 and are expected to nearly double again in 2009 and weather data modeling and weather calculations in JPADS software are at the very essence of the AF capability to expand airdrop and provide improved delivery

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accuracy in support of increased numbers of ground forces in OEF. OEF uniquely requires the AF to provide greater airdrop delivery accuracy because of the rough, varied high-altitude terrain and associated small drop zones and the key to improving accuracy is better weather data collection and processing in the computed air release point calculation in JPADS software.						
This program is in Budget Activity 7, Operational System Development because this budget activity 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. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<b>Title:</b> JPADS Development  <b>Description:</b> Continue development of a Joint Precision Airdrop System (JPADS) capability for precise, high altitude delivery of material to forward ground forces.  <b>FY 2010 Accomplishments:</b> Continued development, integration and testing of JPADS Phase 2 software. Completed requirements analysis of JPADS Phase 3 software and initiate preliminary studies and analyses for JPADS Phase 4 (MPS Consolidated Airdrop Tool).  <b>FY 2011 Plans:</b> Continue development of JPADS Phase 3 software and re-architect the WindPads component of the Consolidated Airdrop Tool (CAT). Will also utilize requested FY11 OCO funds to re-factor JPADS prototype weather software.  <b>FY 2012 Base Plans:</b> Complete development of JPADS Phase 3 software and continue development of Phase 4 software.  <b>FY 2012 OCO Plans:</b> Complete re-factoring of JPADS prototype weather software.		1.874	6.110	2.824	-	2.824
<b>Title:</b> MAF Increment IV Development  <b>Description:</b> Continues development (and initial migration) of MPS Increment IV Mission Planning Environments (MPE) for MAF platforms (e.g. HH-60)  <b>FY 2010 Accomplishments:</b> FY10 development efforts completed in Project 673858  <b>FY 2011 Plans:</b>		-	-	-	-	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Air Force										<b>DATE:</b> February 2011				
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0208006F: <i>Mission Planning Systems</i>				<b>PROJECT</b> 675302: <i>Mobility Air Forces (MAF) Planning Systems</i>						
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>														
										<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
No development efforts scheduled for this activity due to termination of Tanker Airlift Special Mission (TASM) Mission Planning Environment.  <b>FY 2012 Base Plans:</b> Begin software design and development to transition HH-60 off legacy mission planning system and on to MPS.  <b>FY 2012 OCO Plans:</b>														
<b>Title:</b> MAF Modernization  <b>Description:</b> Continues the modernization of Mission Planning Environments (MPE) for MAF platforms  <b>FY 2010 Accomplishments:</b> No development activities planned for this activity.  <b>FY 2011 Plans:</b> No development efforts scheduled for this activity due to termination of Tanker Airlift Special Mission (TASM) Mission Planning Environment.  <b>FY 2012 Base Plans:</b> Continue the modernization of previously fielded mission planning software environments for the E-3, E-8, and RC-135.  <b>FY 2012 OCO Plans:</b>										-	-	1.432	-	1.432
<b>Accomplishments/Planned Programs Subtotals</b>										1.874	6.110	4.256	-	4.256
<b>C. Other Program Funding Summary (\$ in Millions)</b>														
<b>Line Item</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>Cost To Complete</b>	<b>Total Cost</b>			
• OPAF: <i>PE 0208006F, Mission Planning Systems</i>	16.589	11.680	9.516	0.000	9.516	8.389	8.542	9.694	9.868	Continuing	Continuing			
<b>D. Acquisition Strategy</b> MPS MAF Planning Systems utilizes an evolutionary acquisition approach to develop and deliver an interoperable, network-centric, mission planning system tailored for numerous Air Force platforms using competition and multiple contract vehicles.														

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Air Force		<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0208006F: <i>Mission Planning Systems</i>	<b>PROJECT</b> 675302: <i>Mobility Air Forces (MAF) Planning Systems</i>

**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 2012 Air Force										DATE: February 2011				
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0208006F: Mission Planning Systems					PROJECT 675302: Mobility Air Forces (MAF) Planning Systems				
Product Development (\$ in Millions)					FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Mission Planning Enterprise Contract	C/Various	Various:Various,	-	-		-		-		-	Continuing	Continuing	TBD	
Mission Planning Enterprise Contract II	C/Various	Various:Various,	-	-		1.432	Nov 2011	-		1.432	Continuing	Continuing	TBD	
JPADS Software Development Contract	C/CPFF	Tybrin:Ft Walton Beach, FL	1.874	6.110	Nov 2010	2.824	Nov 2011	-		2.824	Continuing	Continuing	TBD	
Subtotal			1.874	6.110		4.256		-		4.256				
Support (\$ in Millions)					FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Subtotal			-	-		-		-		-	0.000	0.000	0.000	
Remarks Technical support cost are programmed in project 673858														
Test and Evaluation (\$ in Millions)					FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Subtotal			-	-		-		-		-	0.000	0.000	0.000	
Remarks Government test and certification support cost are programmed in project 673858.														
Management Services (\$ in Millions)					FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Subtotal			-	-		-		-		-	0.000	0.000	0.000	

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2012 Air Force											<b>DATE:</b> February 2011			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>					<b>R-1 ITEM NOMENCLATURE</b> PE 0208006F: <i>Mission Planning Systems</i>					<b>PROJECT</b> 675302: <i>Mobility Air Forces (MAF) Planning Systems</i>				

  

Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
<b>Remarks</b> Managment and other program support costs are programmed in project 673858													
			Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>			1.874	6.110		4.256		-		4.256			
<b>Remarks</b>													



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2012 Air Force		<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0208006F: <i>Mission Planning Systems</i>	<b>PROJECT</b> 675302: <i>Mobility Air Forces (MAF) Planning Systems</i>

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Air Force			<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0208006F: <i>Mission Planning Systems</i>	<b>PROJECT</b> 675302: <i>Mobility Air Forces (MAF) Planning Systems</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
E-3 v1.0 Fielding	3	2011	3	2011
E-3 v2.0 Fielding	3	2012	3	2012
E-3 v3.0 Fielding	4	2013	4	2013
E-8 v1.0 Fielding	2	2012	2	2012
E-8 v2.0 Fielding	3	2012	3	2012
RC-135 Spiral 2.2 Fielding	2	2011	2	2011
RC-135 Spiral 2.3 Fielding	2	2012	2	2012
CAT v3.0 Fielding	4	2012	4	2012
E-8 v1.0 Fielding (1)	2	2012	3	2012

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0208006F: Mission Planning Systems				PROJECT 675380: Combat Air Forces (CAF) Planning Systems			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
675380: Combat Air Forces (CAF) Planning Systems	-	40.172	35.671	-	35.671	37.605	36.326	40.305	37.308	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

**A. Mission Description and Budget Item Justification**

Mission planning involves the creation of a flight plan based on threats, targets, terrain, weather, aircraft performance capability and configuration. It is an essential task that must be completed prior to any fixed or rotary wing aircraft sortie. The planner must have the ability to plan weapon, cargo, passenger, and/or fuel delivery, calculate fuel requirement and assess the route based on known enemy threat location and type. Mission planners must be able to optimize and de-conflict flight routes with other aircraft; review, print and brief the plan; and download pertinent flight information to on-board aircraft avionics. This project focuses on developing mission planning systems for the Combat Air Forces (CAF). It will also modernize the Mission Planning Systems (MPS) software required for CAF mission planning, including versions required to keep pace with upgrades to the A-10, B-1B, F-15, F-16, and F-22A aircraft as well as common components such as the Precision Guided Munitions Planning System (PGMPS) and the Joint Air-to-Surface Standoff Missile (JASSM). Mission Planning CAF increments and modernization efforts are as follows:

a. MPS Increment IV Development – This efforts continues update-development activities for platforms that previously transitioned to MPS (e.g. F-15, F-16, A-10, B-1B, and F-22A) to provide capabilities IAW the Increment IV Capability Development Document (CDD). In addition, it also upgrades several Common Components that are utilized on a variety of CAF platforms.

b. CAF MPE Modernization - Will modernize CAF Mission Planning Environments (MPEs) that were developed and deployed in Increments II-IV. The modernization activities will provide new and improved mission planning capabilities for individual MPEs as required to meet evolving Operational Flight Program (OFP) requirements (such as new weapons, avionics upgrades, communication systems, etc...) for the various affected platforms. The modernization effort will also complete a variety of studies and analyses to evaluate emerging Information Technology (IT) infrastructure technologies in support of future system upgrades.

This program is in Budget Activity 7, Operational System Development because this budget activity 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. Accomplishments/Planned Programs (\$ in Millions)**

	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
<b>Title:</b> Increment IV CAF Development	-	8.802	13.375	-	13.375
<b>Description:</b> Continues development of MPS Increment IV Mission Planning Environments (MPE) for CAF platforms (e.g. F-15, F-16, F-22, B-1B)					

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force				DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 0208006F: Mission Planning Systems		PROJECT 675380: Combat Air Forces (CAF) Planning Systems			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
FY 2010 Accomplishments:							
FY 2011 Plans: Complete development and fielding activities for B-1B, F-22A, and A-10 Mission Planning Environment.							
FY 2012 Base Plans: Complete development of the unique planning component portion of the Mission Planning Environment (MPE) for the A-10 and F-22A platforms.							
FY 2012 OCO Plans:							
Title: CAF Modernization			-	31.370	22.296	-	22.296
Description: Continues the modernization of previously fielded Mission Planning Environments (MPEs) to enable efficient use of new and improved capabilities being developed in the Operational Flight Programs (OFPs) of CAF platforms.							
FY 2010 Accomplishments:							
FY 2011 Plans: Continues modernization of previously fielded mission planning software environments for B-1B, F-15, F-16, and F-22A. Includes design, code integration, and documentation of software components. Will also support training for units that will receive the additional functional capabilities being developed and incorporated in platform Operational Flight Programs (OFPs).							
FY 2012 Base Plans: Continues the modernization of previously fielded mission planning software environments for the B-1B, F-15, F-16, and F-22A. Future funding will incorporate changes to the requirements by the Operational Flight Programs as the warfighter transitions to the Joint Mission Planning System. Air Combat Command (ACC) and Air Mobility Command (AMC) supplies functional and performance requirements that must be implemented relative to each particular platform mission planning requirements. This will include the implementation of specific UPC improvements based upon fielded problems, developer evaluations, and Developmental and Operational testing as agreed to by HQ ACC and AMC. As part of the modernization effort MPE software shall interoperate with the baseline JMPS Framework, PGMPs, Weapons Data link, and key handling software for the newly identified SDB-II capability.							
FY 2012 OCO Plans:							

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Air Force	<b>DATE:</b> February 2011
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<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0208006F: <i>Mission Planning Systems</i>	<b>PROJECT</b> 675380: <i>Combat Air Forces (CAF) Planning Systems</i>
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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
<b>Accomplishments/Planned Programs Subtotals</b>	-	40.172	35.671	-	35.671

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

<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OPAF: <i>PE 0208006F, Mission Planning Systems</i>	11.424	9.426	9.013	0.000	9.013	8.718	8.878	10.030	10.158	Continuing	Continuing

**D. Acquisition Strategy**

MPS Combat Air Forces (CAF) Planning Systems utilizes an evolutionary acquisition approach to develop and deliver an interoperable, network-centric, mission planning system tailored for numerous Air Force platforms using competition and multiple contract vehicles.

**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 2012 Air Force											DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0208006F: Mission Planning Systems				PROJECT 675380: Combat Air Forces (CAF) Planning Systems						
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Mission Planning Enterprise Contract II	C/Various	Various:Various,	-	30.786	Nov 2010	22.296	Nov 2011	-		22.296	Continuing	Continuing	TBD	
MPS Modernization	C/Various	Various:Various,	-	9.386	Nov 2010	13.375	Nov 2011	-		13.375	Continuing	Continuing	TBD	
Subtotal			-	40.172		35.671		-		35.671				
Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Subtotal			-	-		-		-		-	0.000	0.000	0.000	
Remarks Technical support cost are programmed in project 673858														
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Subtotal			-	-		-		-		-	0.000	0.000	0.000	
Remarks Test and Evaluation support cost are programmed in project 673858														
Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Subtotal			-	-		-		-		-	0.000	0.000	0.000	
Remarks Management and other program support cost are programmed in project 673858														

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force										DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0208006F: Mission Planning Systems				PROJECT 675380: Combat Air Forces (CAF) Planning Systems				
		Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		-	40.172		35.671		-		35.671			

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2012 Air Force		<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0208006F: <i>Mission Planning Systems</i>	<b>PROJECT</b> 675380: <i>Combat Air Forces (CAF) Planning Systems</i>

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2012 Air Force

**DATE:** February 2011

**APPROPRIATION/BUDGET ACTIVITY**

3600: *Research, Development, Test & Evaluation, Air Force*  
BA 7: *Operational Systems Development*

**R-1 ITEM NOMENCLATURE**

PE 0208006F: *Mission Planning Systems*

**PROJECT**

675380: *Combat Air Forces (CAF) Planning Systems*

**Schedule Details**

Events	Start		End	
	Quarter	Year	Quarter	Year
F-15 v2.1 Fielding	2	2011	2	2011
F-15 v3.0 Fielding	2	2012	2	2012
F-15 v3.1 Fielding	4	2012	4	2012
F-16 Blk 30 SCU 7 Fielding	1	2011	1	2011
F-16 Blk 40/50 M5.1 Fielding	2	2010	2	2010
F-16 Blk 40/50 M6.1 Fielding	4	2012	4	2012
F-16 Blk 40/50 M6.2 Fielding	2	2013	2	2013
F-22 v11.0 Fielding	1	2011	1	2011
F-22 v11.1 Fielding	4	2011	4	2011
F-22 v11.2 Fielding	2	2012	2	2012
F-22 v12.0 Fielding	4	2013	4	2013
A-10 Suite 7A Fielding	3	2011	3	2011
A-10 Suite 7B Fielding	4	2012	4	2012
A-10 Suite 8 Fielding	4	2013	4	2013
B-1 Rel 4.0 Fielding	1	2011	1	2011
B-1 Rel 6 Fielding	3	2012	3	2012
B-1 Rel 7 Fielding	2	2013	2	2013

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