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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				PE 0305219F: <i>PREDATOR DEVELOPMENT/FIELDING</i>							
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
Total Program Element	23.661	28.913	14.112	-	14.112	9.105	6.752	2.866	2.892	Continuing	Continuing
675143: <i>Predator</i>	23.661	28.913	14.112	-	14.112	9.105	6.752	2.866	2.892	Continuing	Continuing

Note

FY 2010 funding totals include \$1.4M appropriated for Overseas Contingency Operations.

Prior Years funding estimate is \$267.8M. The To Complete funding estimate is to be determined.

Totals include funding for PRCP Program Number 271, "MQ-1 Predator".

The program funding includes reductions for overhead efficiencies that are not intended to impact program content. The efficiencies reductions total \$0.086M in FY12.

A. Mission Description and Budget Item Justification

The basic MQ-1 system consists of the aircraft, a control station, communications equipment, support equipment, simulator and training devices, Readiness Spares Packages (RSP), technical data/training, and personnel required to operate, maintain, and sustain the system. This funding supports development and enhancements to the Predator weapon system to include: aircraft, Ground Control Stations (GCS), sensors, communication equipment, training systems and support elements. The system is designed to be modular and open-ended. Mission-specific equipment is employed in a 'plug-and-play' mission kit concept allowing specific aircraft and control station configurations to be tailored to fit mission needs.

The MQ-1 aircraft is a single-engine, propeller-driven, remotely piloted aircraft (formerly called unmanned aircraft vehicle, UAV) designed to operate over-the-horizon for long endurance sorties. The aircraft is designed to provide real-time Intelligence, Surveillance, Reconnaissance, and Target Acquisition (ISR TA), and attack capability to aggressively prosecute Time Sensitive Targets (TSTs). The aircraft is configured to carry Hellfire laser-guided missiles. The MQ-1 operates primarily at medium altitudes, integrating with joint aerospace, ground, and maritime forces as well as coalition and Allied forces, to execute combatant commander priority missions. The aircraft carries a Multi-spectral Targeting System (MTS) (a sensor turret that incorporates electro-optical (EO), Infra-Red (IR), laser designator, and IR illuminator) capable of transmitting real-time full motion video (FMV) imagery throughout the operational theater. The Department's plan is to transition to the Common Sensor Payload (CSP) EO/IR sensor for commonality with the Army Extended Range/Multi-Purpose (ERMP) MQ-1C Gray Eagle. Predator will develop and incorporate encryption for its data links.

Major changes will be classified as distinct blocks or Mission Design Series (MDS) updates. The overarching MQ-1 modernization activity is known as the Critical Capabilities Integration Program (CCIP). The first CCIP increment is Block 25 which includes the integration development of the Primary Predator Data Link, and Differential GPS. Integration development for additional features (Hellfire R Software, Digital Video, VORTEX FMV encrypted data link, and ACES HY hyperspectral sensor) will be performed also, but are listed separately.

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Planned activities also include studies and analysis to support both current program planning and execution and future program planning. The program will take steps to integrate a high-definition (HD) turret and transmit HD video.

The GCS, common with the MQ-9 Reaper, functions as the aircraft cockpit and can control the aircraft either within line-of-sight (LOS) or beyond LOS (BLOS) via a combination of satellite relay and terrestrial communications. The GCS is either mobile to support forward operating locations or fixed at a facility to support Remote Split Operations (RSO). The GCS has the capability to perform mission planning; provide a means for manual control; allow control of multiple aircraft and payloads; allow personnel to launch, recover, and monitor aircraft, payloads, and system communications status; secure data links to receive payload sensor data and command links; monitor threats to the aircraft; display a common operational picture; and provide support functions. Additionally, GCS allows for servicing, systems checks, maintaining, launching, and recovering aircraft under LOS control for hand-off to a mobile or fixed facility GCS. The GCS will continue to evolve and upgrade its capabilities to keep pace with MQ-1 aircraft capabilities and the missions they perform.

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	23.661	28.913	14.841	-	14.841
Current President's Budget	23.661	28.913	14.112	-	14.112
Total Adjustments	-	-	-0.729	-	-0.729
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	-0.729	-	-0.729

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 675143: *Predator*

Congressional Add: *Sense & Avoid (FY10 Cong. Add)*

Congressional Add: *Predator C (FY10 Cong. Add)*

Congressional Add Subtotals for Project: 675143

Congressional Add Totals for all Projects

FY 2010	FY 2011
3.173	-
1.300	-
4.473	-
4.473	-

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Exhibit R-2, RDT&E Budget Item 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 0305219F: PREDATOR DEVELOPMENT/FIELDING	
<u>Change Summary Explanation</u> Decrease from FY 2011 to FY 2012 is due to completion of Digital Video and IP Migration efforts, and nearing completion of Common Sensor Payload and Critical Capabilities Integration development.		

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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 0305219F: PREDATOR DEVELOPMENT/ FIELDING				PROJECT 675143: Predator			
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
675143: Predator	23.661	28.913	14.112	-	14.112	9.105	6.752	2.866	2.892	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
Note											
FY 2010 funding totals include \$1.4M appropriated for Overseas Contingency Operations.											
Prior Years funding estimate is \$267.8M. The To Complete funding estimate is to be determined.											
Totals include funding for PRCP Program Number 271, "MQ-1 Predator".											
The program funding includes reductions for overhead efficiencies that are not intended to impact program content. The efficiencies reductions total \$0.086M in FY12.											
A. Mission Description and Budget Item Justification											
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Major changes will be classified as distinct blocks or Mission Design Series (MDS) updates. The overarching MQ-1 modernization activity is known as the Critical Capabilities Integration Program (CCIP). The first CCIP increment is Block 25 which includes the integration development of the Primary Predator Data Link, and Differential GPS. Integration development for additional features (Hellfire R Software, Digital Video, VORTEX FMV encrypted data link, and ACES HY hyperspectral sensor) will be performed also, but are listed separately.											

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Planned activities also include studies and analysis to support both current program planning and execution and future program planning. The program will take steps to integrate a high-definition (HD) turret and transmit HD video.							
The GCS, common with the MQ-9 Reaper, functions as the aircraft cockpit and can control the aircraft either within line-of-sight (LOS) or beyond LOS (BLOS) via a combination of satellite relay and terrestrial communications. The GCS is either mobile to support forward operating locations or fixed at a facility to support Remote Split Operations (RSO). The GCS has the capability to perform mission planning; provide a means for manual control; allow control of multiple aircraft and payloads; allow personnel to launch, recover, and monitor aircraft, payloads, and system communications status; secure data links to receive payload sensor data and command links; monitor threats to the aircraft; display a common operational picture; and provide support functions. Additionally, GCS allows for servicing, systems checks, maintaining, launching, and recovering aircraft under LOS control for hand-off to a mobile or fixed facility GCS. The GCS will continue to evolve and upgrade its capabilities to keep pace with MQ-1 aircraft capabilities and the missions they perform.							
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
Title: OGC and Urgent Services Description: Other Government Costs (OGC) and Urgent Services. FY 2010 Accomplishments: Continued OGC and Urgent Services. FY 2011 Plans: Continue OGC and Urgent Services. FY 2012 Base Plans: Will continue OGC and Urgent Services. FY 2012 OCO Plans:			1.503	0.989	1.894	-	1.894
Title: ST&E Description: Systems Test & Evaluation (ST&E) FY 2010 Accomplishments: Continued ST&E. FY 2011 Plans:			0.752	0.744	0.227	-	0.227

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Continue ST&E. FY 2012 Base Plans: Will continue ST&E. FY 2012 OCO Plans:						
Title: GCS Description: Ground Control Station (GCS) FY 2010 Accomplishments: Continued development of the MQ-1 Ground Control Station (GCS) communication architecture retrofit that supports the encrypted delivery requirement for the GCS PPDL Kit and Surface Terminal Subsystem (STSS). Follow-on development funded in MQ-9, PE 0205219F. FY 2011 Plans: FY 2012 Base Plans: FY 2012 OCO Plans:		4.000	-	-	-	-
Title: PPDL Description: Predator Primary Data Link (PPDL) FY 2010 Accomplishments: Completed development of PPDL Secure Communications Upgrade which delivers enhanced capabilities to the Beyond Line-Of-Sight (BLOS) and Line-Of-Sight (LOS) communication systems, encryption,increased throughput data rates, IP networking and interoperable/MIL-STD waveforms capabilities to the MQ-1 Predator aircraft. FY 2011 Plans: FY 2012 Base Plans: FY 2012 OCO Plans:		0.626	-	-	-	-
Title: PMATS		0.251	-	1.977	-	1.977

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Description: Predator Mission Aircrew Training System (PMATS) FY 2010 Accomplishments: Continued development to modernize PMATS. FY 2011 Plans: FY 2012 Base Plans: Will continue development to modernize PMATS. FY 2012 OCO Plans:						
Title: VORTEX Description: Video Oriented Transceiver for Exchange of Information (VORTEX) FY 2010 Accomplishments: Continued development of VORTEX Phase 2, a system which enables encrypted line of sight data transmission across multiple frequencies, channels, and waveforms. Incrementally funded and includes aircraft integration and software development. FY 2011 Plans: Continue development of VORTEX Phase 2, a system which enables encrypted line of sight data transmission across multiple frequencies, channels, and waveforms. Incrementally funded and includes aircraft integration and software development. FY 2012 Base Plans: Will complete development of VORTEX Phase 2, a system which enables encrypted line of sight data transmission across multiple frequencies, channels, and waveforms. Incrementally funded and includes aircraft integration and software development. FY 2012 OCO Plans:		2.000	1.494	0.206	-	0.206
Title: CCI Description: Critical Capabilities Integration (CCI) FY 2010 Accomplishments:		3.856	8.241	5.357	-	5.357

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B. Accomplishments/Planned Programs (\$ in Millions)					
	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Continued development of the overarching integration strategy as well as development for the integration of PPDL and dGPS. Incrementally funded. FY 2011 Plans: Continue development of the overarching integration strategy as well as development for the integration of PPDL and dGPS. Incrementally funded. FY 2012 Base Plans: Will continue development of the overarching integration strategy as well as development for the integration of PPDL and dGPS. Incrementally funded. FY 2012 OCO Plans:					
Title: Hellfire Software Description: Hellfire Software FY 2010 Accomplishments: FY 2011 Plans: Initiate development required to integrate the next generation Hellfire missile (AGM-114R) on the Predator platform. Incrementally funded over three years. FY 2012 Base Plans: Will continue development required to integrate the next generation Hellfire missile (AGM-114R) on the Predator platform. Incrementally funded over three years. FY 2012 OCO Plans:					
	-	2.674	1.981	-	1.981
Title: Digital Video Description: Digital Video FY 2010 Accomplishments: Initiated development of Digital Video. FY 2011 Plans:					
	1.200	4.043	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Complete development of Digital Video. FY 2012 Base Plans: FY 2012 OCO Plans:							
Title: CSP Description: Common Sensor Payload (CSP) FY 2010 Accomplishments: FY 2011 Plans: Initiate development required to integrate the Common Sensor Payload on the Predator. Incrementally funded. FY 2012 Base Plans: Will continue development required to integrate the Common Sensor Payload on the Predator. Incrementally funded. FY 2012 OCO Plans:			-	7.228	2.470	-	2.470
Title: IP Migration Description: IP Migration FY 2010 Accomplishments: Initiated development of the IP Migration effort to transition the RSO architecture from an ATM standard to an IP standard in both terms of hardware and data service. FY 2011 Plans: Complete development of the IP migration effort will transition the RSO architecture from an ATM standard to an IP standard in both terms of hardware and data service. FY 2012 Base Plans: FY 2012 OCO Plans:			5.000	3.500	-	-	-
Accomplishments/Planned Programs Subtotals			19.188	28.913	14.112	-	14.112

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	FY 2010	FY 2011
Congressional Add: Sense & Avoid (FY10 Cong. Add) FY 2010 Accomplishments: Completed development of Sense & Avoid. FY 2011 Plans:	3.173	-
Congressional Add: Predator C (FY10 Cong. Add) FY 2010 Accomplishments: Completed flight test and demonstrated the interoperability of the MQ-1/MQ-9 Block 50 Advanced Cockpit open architecture through command and control of a Predator C aircraft. FY 2011 Plans:	1.300	-
Congressional Adds Subtotals	4.473	-

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

Line Item	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
• APAF: <i>PE 0305219F, Predator Development/Fielding</i>	190.826	245.457	163.436	0.000	163.436	63.942	73.776	44.119	44.529	Continuing	Continuing

D. Acquisition Strategy

The MQ-1 Predator system will be acquired via sole-source acquisition strategies with General Atomics-ASI and Raytheon as the prime contractors.

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			
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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
GCS	SS/CPFF	General Atomics-ASI:Poway, CA	46.519	-		-		-		-	0.000	46.519	47.919
PPDL	SS/CPFF	General Atomics - ASI:Poway, CA	26.029	-		-		-		-	0.000	26.029	26.029
PMATS	SS/CPIF	L3 Comm:Binghamton, NY	28.028	-		1.977	Dec 2011	-		1.977	12.187	42.192	42.192
VORTEX	SS/CPIF	General Atomics - ASI:Poway, CA	3.700	1.494	May 2011	0.206	Jan 2012	-		0.206	0.000	5.400	5.400
CCI	SS/CPIF	General Atomics - ASI:Poway, CA	6.838	8.241	Jan 2011	5.357	Jan 2012	-		5.357	0.801	21.237	21.237
Hellfire Software	SS/CPIF	General Atomics - ASI:Poway, CA	-	2.674	Aug 2011	1.981	Dec 2011	-		1.981	0.775	5.430	5.430
Digital Video	SS/CPAF	Raytheon & General Atomics ASI:McKinney & Poway, TX	1.200	4.043	Mar 2011	-		-		-	0.000	5.243	5.243
CSP	SS/CPAF	Raytheon & General Atomics - ASI:McKinney & Poway, TX	-	7.228	Dec 2010	2.470	Dec 2011	-		2.470	7.989	17.687	17.687
Sense & Avoid	MIPR	Sierra Nevada Corp.:Sparks, NV	15.010	-		-		-		-	0.000	15.010	15.010
Predator C	SS/CPFF	General Atomics - ASI:Poway, CA	1.300	-		-		-		-	0.000	1.300	1.300
IP Migration	SS/CPFF	General Atomics - ASI:Poway, CA	5.000	3.500	Jan 2011	-		-		-	0.000	8.500	8.500
Prior Year Completed Projects	TBD	Not specified.:Location not provided.	125.337	-		-		-		-	0.000	125.337	0.000
Subtotal			258.961	27.180		11.991		-		11.991	21.752	319.884	195.947
Remarks Digital Video and CSP - These projects will be performed by two vendors: General Atomics ASI and Raytheon. The fields in IDECS will only hold information on one vendor. Therefore, the Performing Activity, City, State and per company cost information is listed here. The values listed below are the break of the FY11 and FY12 budgets for the requirements identified.													

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force											DATE: February 2011			
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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	
Digital Video: General Atomics - ASI, Poway CA FY10 - \$0.834M; FY11 - \$2.811M Raytheon, McKinney TX FY10 - \$0.366M; FY11 - \$1.232M CSP: General Atomics - ASI, Poway CA FY11 - \$1.952M; FY12 - \$0.667M Raytheon, McKinney TX FY11 - \$5.276M; FY12 - \$1.803M Sense & Avoid: This contract is also funded with Global Hawk and other DoD funding.														
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	
OGC and Urgent Services	Various	Various:Various,	25.695	0.989	Dec 2010	1.894	Dec 2011	-		1.894	Continuing	Continuing	TBD	
Subtotal			25.695	0.989		1.894		-		1.894				
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	
Test Support	Various	Various:Various,	6.805	0.744	Jan 2011	0.227	Jan 2012	-		0.227	Continuing	Continuing	TBD	
Subtotal			6.805	0.744		0.227		-		0.227				
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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	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	291.461	28.913	14.112	-	14.112			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force		DATE: February 2011
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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 0305219F: *PREDATOR DEVELOPMENT/
FIELDING*

PROJECT

675143: *Predator*

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
GCS	1	2010	3	2012
PPDL	1	2010	2	2011
PMATS	1	2010	4	2016
VORTEX	1	2010	3	2013
CCI	1	2010	3	2013
Hellfire Software	4	2011	2	2013
Digital Video	1	2010	2	2013
CSP	1	2011	1	2014
Sense & Avoid	1	2010	1	2013
Predator C	1	2011	4	2011
IP Migration	2	2010	2	2012
OGC, ECO, Urgent Services	1	2010	4	2016
ST&E	1	2010	4	2016

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