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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2013 Air Force **DATE:** February 2012

<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 0205219F: <i>MQ-9 Development and Fielding</i>
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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	136.667	126.730	147.971	-	147.971	147.030	110.620	34.728	-	Continuing	Continuing
675246: <i>MQ-9 Development and Fielding</i>	136.667	126.730	147.971	-	147.971	147.030	110.620	34.728	-	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

**Note**  
FY11 funding total includes a \$12M appropriated for Overseas Contingency Operations.

The Cost to Complete and Total Cost for MDAP projects in this program element are documented in the R3. The Cost to Complete and Total Cost on the R2 are entered as "Continuing" and not reflective of the total cost for MDAP projects since the R2 does not account for prior years funding.

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

The basic MQ-9 Reaper system consists of the aircraft, sensors, a ground control station (GCS), Squadron Operations Center (SOC), communications equipment, weapon kits, support equipment, simulator and training devices, Readiness Spares Packages (RSP), technical data/training, and personnel required to operate, maintain, and sustain the system. 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-9 Reaper aircraft is a single-engine, turbo-prop remotely piloted aircraft (RPA) designed to operate over-the-horizon at medium-to-high altitude for long endurance sorties. The aircraft is designed primarily to prosecute critical, emerging Time-Sensitive-Targets (TSTs) as a radar, Electro-optical/Infrared (EO/IR), and laser designator-based attack asset with on-board hard-kill capability (hunter-killer). It also performs Intelligence, Surveillance, Reconnaissance and Target Acquisition (ISR TA). In the hunter-killer role, the aircraft employs fused multi-spectral sensors to find, fix, and track ground targets (Automatic Target Cueing (ATC), Target Location Accuracy (TLA), Metric Sensor and other capabilities), and assesses post-strike results. The MQ-9 system is continuing to develop and field capability through incremental upgrades. Future capabilities development activity includes increasing the maximum gross takeoff weight capability of the aircraft; automatic takeoff and landing capability (ATLC); enhancing aircraft systems to include integrated redundant avionics; modifying the system to include provisions for a Foreign Military Sale exportable version of the weapon system; Predator Primary Data Link (PPDL) communication system upgrades and communications upgrades to include data link encryption, IP networking, and Ka frequency migration; navigation system upgrades; electrical system upgrades; airframe and airframe system improvements, such as incorporation of Elevated Temperature Wet (ETW) materials; propulsion system improvements; secure voice and data communications, including SATCOM upgrades; sensor/stores management computer improvement; MIL-STD-1760 advanced weapons data bus; Universal Armament Interface and Miniature Munitions/Store Interface; advanced sensor and weapon payloads; improved human-machine interface (HMI); integrating precision weapons (e.g. AGM-114 Hellfire missile, GBU-12/38/49 guided bombs, and Small Diameter Bomb variants); Mode 5 / Automatic Dependent Surveillance - Broadcast (ADS-B) integration; hardware and software upgrades to the ground control station for MQ-9 operations; completing airworthiness certification; weapons system certification and accreditation; and producing applicable training devices that emulate weapon system functionality and capabilities. The MQ-9 program will continue to support other payload and capability development activities funded in other Program Elements (e.g. SIGINT, communications, Broad Area Surveillance leveraging Gorgon Stare

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Quick Reaction Capability, advanced Counter-Improvised Explosive Device (C-IED), missile defense, hyperspectral, and other sensors and weapons) and address reliability, maintainability, sustainability, and safety issues. Activities also include trade studies, analyses, preliminary systems engineering, system and subsystem level testing in accordance with DoD and military standards, and specification development in support of both current program planning and execution, and studies supporting analysis and investment in future program planning.

The GCS, common with the MQ-1 Predator, 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; provides a means for manual control; allows personnel to launch, recover, and monitor aircraft, payloads, and system communications status; incorporates secure data links to send aircraft and payload commands and receive system telemetry and payload data; monitors threats to the aircraft; displays the common operational picture; and provides support functions. Launch and Recovery GCS (LRGCS) allow for servicing, systems checks, maintenance, launch and recovery of aircraft under LOS control for hand-off to a mobile or fixed facility GCS, and conducting operations within line-of-sight range of the LRGCS. Beginning in FY12 there is funding to accelerate development of a Multiple Aircraft Control (MAC) GCS capability. GCS upgrades will be developed and fielded in coordination with improvements to MQ-9 system capabilities and in response to evolving operational and information assurance/certification and accreditation requirements. Key efforts include Block 30 GCS upgrades that add new LINUX processors, high definition monitors, ergonomic improvements, Block 50 GCS upgrades that integrate improved human-machine interfaces, open systems architecture, improved and crew habitability. In addition, the Block 50 GCS effort also includes development/integration of the Unmanned Aerospace System (UAS) Command and Control (C2) Initiative (UCI) government-owned standard to enable improved capabilities for situational awareness and multi-mission management monitoring and oversight in the GCS and SOC.

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 years.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>
Previous President's Budget	125.427	146.824	110.982	-	110.982
Current President's Budget	136.667	126.730	147.971	-	147.971
Total Adjustments	11.240	-20.094	36.989	-	36.989
• Congressional General Reductions	-	-0.094			
• Congressional Directed Reductions	-	-20.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	11.240	-	36.989	-	36.989

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<b>Change Summary Explanation</b> FY11: Adjustments \$12.0M in FY 2011 Overseas Contingency Operations funds added by technical adjustment from program element 0207277F for the Counter IED effort and Congressional General Reductions adjustment is - \$0.760M shown in Other Adjustments Row.				
<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
<b>Title:</b> MQ-9 System Development and Demonstration (SDD) - Increment 1		1.411	-	-
<b>Description:</b> Development to meet MQ-9 Capabilities Production Document (CPD) requirement.				
<b>FY 2011 Accomplishments:</b> Complete air worthiness, software updates, & weapons development efforts.				
<b>Title:</b> MQ-9 System Development and Demonstration (SDD) - Bridge		38.444	45.467	24.103
<b>Description:</b> Complete development to meet MQ-9 Capabilities Production Document (CPD) requirements.				
<b>FY 2011 Accomplishments:</b> Continued High Definition sensor upgrades and integration, VORTEX, PDDL, Main Landing Gear, and laser altimeter upgrades.				
<b>FY 2012 Plans:</b> Continue high definition sensor capability and Target Location Accuracy integration and PDDL development. Software release version 904.6 Rev A will support Block 5 first article testing.				
<b>FY 2013 Plans:</b> Will continue airframe related development and test(\$10.1M) - secure communications - weapon integration AGM-114P+/R (Hellfire P+/R) - HD video dissemination via Ku Line-of-Sight				
Sensor control and integration (\$3.3M)				
Integration and productionization (\$10.7M) - Integration, testing, production, and training documentation				
Milestones; CDR completed Jan 11. Interim software for Block 5 plus activities scheduled for delivery in Sep 13. Developmental test begins for PDDL Human Machine Interface, Dual ARC-210 radios, left seat Synthetic Aperture Radar control, and forward bay reorganization.				
<b>Title:</b> Ground Control Station (GCS) Development		40.191	15.304	16.231

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
<p><b>Description:</b> Develop Ground Control Station (GCS) capabilities. Major capabilities include open system architecture, multi-level security and ergonomic cockpit design.</p> <p><b>FY 2011 Accomplishments:</b> Continued GCS Block 50 development and System Integration Lab (SIL) effort. Initiated development of UCI architecture to support the Ground Control Stations.</p> <p><b>FY 2012 Plans:</b> Continue GCS Block 50 development.</p> <p><b>FY 2013 Plans:</b> Finish Block 50 design and procure 3 RDT&amp;E SILs.</p>				
<p><b>Title:</b> MQ-9 Electro-Optic / Infrared (EO/IR) Sensor</p> <p><b>Description:</b> Develop improved MTS-B modes and capability including all digital high-definition (HD) camera formats and Target Location Accuracy (TLA) improvements to improve imagery performance (definition and color) and to support future use of coordinate seeking weapons.</p> <p><b>FY 2011 Accomplishments:</b> Continued High Definition and Target Location Accuracy sensor improvements for EO/IR sensor.</p> <p><b>FY 2012 Plans:</b> Continue High Definition and Target Location Accuracy improvements for EO/IR sensor.</p> <p><b>FY 2013 Plans:</b> Will complete the MTS-B High Definition Target Location Accuracy (HD/TLA) architecture, including design, fabrication, integration, and manned flight test/unmanned flight test of prototypes to achieve production readiness.</p> <p>Program Protection design, integration, and test(\$0.4M).</p> <p>Electronic zoom prototype evaluation(\$0.3M).</p> <p>MTS-B Prototype integration and test mission software for HD/TLA development, integration and test (\$5.9M).</p> <p>MTS-B HD/TLA platform integration/flight test &amp; integration into SIL (\$5.0M).</p>		7.000	9.624	21.571

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
System Qualification and Extended Reliability Testing (\$5.0M).				
HD/TLA MTS-B Turret Unit Productionization (\$4.0M). - Document final design, conduct readiness reviews to begin production Formally release all MTS-B HD/TLA design documents.				
Documentation and Training (\$1.0M). - Prepare technical orders and training materials.				
<b>Title:</b> Other Government Costs (OGC)		8.559	6.557	9.415
<b>Description:</b> Other Government Costs including urgent services, engineering change orders, program office support, studies and general research.				
<b>FY 2011 Accomplishments:</b> Continued OGC costs.				
<b>FY 2012 Plans:</b> Continue OGC support.				
N/A				
<b>FY 2013 Plans:</b> (\$2.5M) Urgent and Program Management Services. (\$6.9M) Support Services to include DMS, corporate, and PMA support.				
<b>Title:</b> Operator Simulator		7.191	2.860	10.648
<b>Description:</b> Develop operator simulators for training and updates to keep Operator Simulator current with upgrades to aircraft and Ground Control Station.				
<b>FY 2011 Accomplishments:</b> Continued updates to keep Operator Simulator current with upgrades to aircraft and Ground Control Station.				
<b>FY 2012 Plans:</b> Continue updates to keep Operator Simulator current with upgrades to aircraft and Ground Station.				
<b>FY 2013 Plans:</b>				

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
Will continue updates to keep Operator Simulator current with upgrades. aircraft and Ground Station. Consist of: Trainer Enhancements (\$3.5M), Target Location Accuracy (\$3.3M), and Block 50 Upgrades (\$3.9M).				
<b>Title:</b> Synthetic Aperture Radar (SAR) Enhancements		8.000	11.037	3.146
<b>Description:</b> Improvements in MQ-9 capability to disseminate SAR data, improve Ground Moving Target Indicator (GMTI) tracking, automation of data exploitation via Continuous Look Attack Management for Predator (CLAMP) and classification of 3-D targeting.				
<b>FY 2011 Accomplishments:</b> Continue SAR data development phase 3, dual beam dismount development, 3-D targeting, kinmatic tracker, and feature aided tracker.				
<b>FY 2012 Plans:</b> Continue SAR data development phase 3, dual beam dismount development, 3-D targeting, and feature aided tracker.				
<b>FY 2013 Plans:</b> Complete SAR data development phase 3, dual beam dismount development, 3-D targeting, and feature aided tracker.				
<b>Title:</b> Test Support		3.317	1.430	2.916
<b>Description:</b> Various MQ-9 testing activities such as flight testing including range time, controlled airspace, frequency management, project management and on-site facilities. Other testing activities include Joint Integrated Test Command (JITC) support and Edwards AFB acceptance testing support.				
<b>FY 2011 Accomplishments:</b> Continued test support.				
<b>FY 2012 Plans:</b> Continue test support. FY11 funding supported test activities in FY12. The FY12 funding is less than the normal 12 month funding period.				
<b>FY 2013 Plans:</b> Continuation of test support.				
n/a				
<b>Title:</b> Communications		0.768	2.798	21.050

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
<p><b>Description:</b> Develop MQ-9 communication capabilities including encrypted Line of Sight (LOS) data links to ROVER terminals (VORTEX) and beyond LOS military SATCOM usage. Development and integration of an IP based Remote Split Operations network/infrastructure to include: Design, development and test of IP based network interfaces, network systems managers, drafting Technical Orders and support documentation, Training Packages, Production Drawings and Retrofit ATP's. Development of Ka SATCOM capability.</p> <p><b>FY 2011 Accomplishments:</b> Completed VORTEX Line-of-Sight (LOS) development, continued PPDL LOS and Beyond-Line-of-Sight communication capabilities development.</p> <p><b>FY 2012 Plans:</b> Development and integration of an IP based Remote Split Operations network/infrastructure to include: Design, development and test of IP based network interfaces, network systems managers, drafting Technical Orders and support documentation, Training Packages, Production Drawings and Retrofit Acceptance Test Procedures.</p> <p><b>FY 2013 Plans:</b> (\$17.827M) Development of Ka SATCOM capability - Aircraft radome antenna and modem development - Ground based SATCOM upgrades - Software &amp; waveform development</p> <p>(\$3.223M) Continue the development and integration of an IP based Remote Split Operations network/infrastructure to include: Design, development and test of IP based network interfaces, network systems managers, drafting Technical Orders and support documentation, Training Packages, Production Drawings and Retrofit ATP's.</p>				
<p><b>Title:</b> Counter-IED Development and Demonstration</p> <p><b>Description:</b> Adding "Step Stare" mode capability to the MTS-B EO/IR sensors; also includes associated GCS development and testing.</p> <p><b>FY 2011 Accomplishments:</b> Continued development/modification of sensor to add "Step Stare" mode capability to the MTS-B EO/IR sensors; also includes associated GCS development and testing.</p> <p><b>FY 2012 Plans:</b></p>		11.787	14.500	6.000

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
Continue to develop/modify sensor to add "Step Stare" mode capability to the MTS-B EO/IR sensors; also includes associated GCS development and testing. <b>FY 2013 Plans:</b> Will continue to develop/modify sensor to add "Step Stare" mode capability to the MTS-B EO/IR sensors; also includes associated GCS development and testing.				
<b>Title:</b> MAC <b>Description:</b> Develop Multi-Aircraft-Control capability for Ground Control Station. <b>FY 2012 Plans:</b> Develop Multi-Aircraft-Control capability for the Ground Control Station. <b>FY 2013 Plans:</b> Increases development of Multi-Aircraft Control capability for GCS. Incorporates UCI software architecture and improved Human Machine Interface upgrades to better enable monitoring and oversight of multi-mission activity.		-	4.333	11.470
<b>Title:</b> MQ-9 Technology Insertion <b>Description:</b> Develop Technology Insertion capabilities and functionality for the MQ-9 Weapon System. <b>FY 2012 Plans:</b> Develop Technology Insertion capabilities and functionality for the MQ-9 Weapon System. <b>FY 2013 Plans:</b> Increases development of Technology Insertion capabilities and functionality for the MQ-9 Weapon System including aircraft, sensors, and Ground Control System documentation and drawings.		-	12.820	17.180
<b>Title:</b> Reliability and Maintainability <b>Description:</b> Develop MQ-9 modification improvements for aircraft and ground base systems. <b>FY 2013 Plans:</b> Develop MQ-9 modification improvements for aircraft and ground base systems to improve mission capable rates and reduce reliability and maintainability cost.		-	-	4.241
<b>Title:</b> UAS Command and Control Initiatives (UCI) <b>Description:</b> UAS Command and Control Initiatives (UCI).		9.999	-	-



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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
<b><i>FY 2011 Accomplishments:</i></b>			
UAS Command and Control Initiatives (UCI).			
<b>Accomplishments/Planned Programs Subtotals</b>			
	136.667	126.730	147.971

<b>D. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• APAF, PE 0205219F, MQ-9 UAV: <i>MQ-9 APAF</i>	897.009	1,058.151	919.950	0.000	919.950	1,007.550	1,015.750	799.701	783.640	Continuing	Continuing
• OPAF, PE 0205219F, MQ-9 UAV: <i>N/A (1)</i>	0.000	4.417	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
• RDT&E AF, PE 0305219F, <i>Preda...: Predator</i>	42.776	11.642	9.122	0.000	9.122	5.652	0.000	0.000	0.279	Continuing	Continuing
• RDT&E AF, PE 0305206F, <i>Airbo...: ARS</i>	31.721	16.047	16.359	0.000	16.359	13.040	6.458	0.000	0.000	Continuing	Continuing
• APAF, PE 0305206F, Airborne <i>Reco...: ARS</i>	0.000	74.866	93.461	0.000	93.461	99.411	20.533	0.000	0.000	Continuing	Continuing
• RDT&E AF, PE 034260F, <i>Airbor...: ASIP-2C Dev.</i>	44.677	25.874	35.340	0.000	35.340	32.270	31.433	40.817	41.356	Continuing	Continuing

**E. Acquisition Strategy**  
 The MQ-9 Reaper system will be acquired via sole-source contracts with General Atomics-ASI, L3Comm, and Raytheon as the prime contractors. GA-ASI is the prime contractor for aircraft and ground control stations. L3Comm is the prime contractor for the Predator Satellite Link. Raytheon is the prime contractor for the MTS-B EO/IR sensor system.

**F. 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 2013 Air Force** **DATE:** February 2012

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<b>Product Development (\$ in Millions)</b>				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 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
MQ-9 System Development and Demonstration (SDD) - Interim Combat Capability (ICC)	SS/CPFF	GA-ASI:Poway, CA	87.429	-		-		-		-	0.000	87.429	87.429
MQ-9 System Development and Demonstration (SDD) - Increment 1	SS/CPIF	GA-ASI:Poway, CA	97.385	-		-		-		-	0.000	97.385	97.385
MQ-9 System Development and Demonstration (SDD) - Bridge	SS/CPIF	GA-ASI:Poway, CA	68.072	45.467	Feb 2012	24.103	Oct 2012	-		24.103	54.967	192.609	192.608
Ground Control Station (GCS) Development	SS/Various	GA-ASI:Poway, CA	62.438	15.304	Feb 2012	16.231	Oct 2012	-		16.231	45.423	139.396	139.396
MQ-9 Electro-Optical / Infrared (EO/IR) Sensor	SS/Various	Raytheon:McKinney, TX	29.253	9.624	Feb 2012	21.571	Apr 2013	-		21.571	32.914	93.362	93.362
Operator Simulator	SS/CPIF	L3 Comm:Salt Lake City, UT	21.546	2.860	Aug 2012	10.648	Apr 2013	-		10.648	13.725	48.779	48.779
Synthetic Aperture Radar (SAR) Enhancements	SS/CPFF	GA-RSG:Poway, CA	23.414	11.037	Feb 2012	3.146	Jan 2013	-		3.146	0.000	37.597	37.597
Communication	SS/CPFF	GA-ASI:Poway, CA	6.920	2.798	May 2012	21.050	Dec 2012	-		21.050	57.358	88.126	88.127
Counter-IED Development and Demonstration	SS/Various	Various:Various,	11.787	14.500	May 2012	6.000	Jan 2013	-		6.000	0.000	32.287	32.287
GCS MAC	SS/CPFF	GA-ASI:Poway, CA	-	4.333	Feb 2012	11.470	Apr 2013	-		11.470	35.084	50.887	50.887
MQ-9 Technical Insertion	SS/CPFF	GA-ASI:Poway, CA	-	12.820	Aug 2012	17.180	Apr 2013	-		17.180	13.874	43.874	43.874
UAS Command and Control Initiatives (UCI)	SS/CPIF	Various:Various,	9.999	-		-		-		-	0.000	9.999	9.999
Reliability and Maintainability	SS/CPFF	GA-ASI:Poway, CA	-	-		4.241	Oct 2012	-		4.241	14.588	18.829	18.829
<b>Subtotal</b>			418.243	118.743		135.640		-		135.640	267.933	940.559	940.559

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<b>Support (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 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>
Support Services	Various	Various,	29.756	4.229	Dec 2011	6.925	Oct 2012	-		6.925	6.925	47.835	TBD
<b>Subtotal</b>			29.756	4.229		6.925		-		6.925	6.925	47.835	

<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 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>
Test Support	Various	Various,	13.516	1.430	Feb 2012	2.916	Oct 2012	-		2.916	7.234	25.096	25.095
<b>Subtotal</b>			13.516	1.430		2.916		-		2.916	7.234	25.096	25.095

<b>Management Services (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 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>
Program Management Administration	Various	Various,	14.875	2.328	Feb 2012	2.490	Oct 2012	-		2.490	2.490	22.183	TBD
<b>Subtotal</b>			14.875	2.328		2.490		-		2.490	2.490	22.183	

			<b>Total Prior Years Cost</b>	<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>			476.390	126.730		147.971		-		147.971	284.582	1,035.673	

**Remarks**

**UNCLASSIFIED**

<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2013 Air Force		<b>DATE:</b> February 2012
<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 0205219F: <i>MQ-9 Development and Fielding</i>	<b>PROJECT</b> 675246: <i>MQ-9 Development and Fielding</i>

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**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2013 Air Force		<b>DATE:</b> February 2012
<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 0205219F: <i>MQ-9 Development and Fielding</i>	<b>PROJECT</b> 675246: <i>MQ-9 Development and Fielding</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
SDD - Increment 1	1	2011	1	2012
SDD - Increment 1 Bridge	1	2011	3	2014
Ground Control Station (GCS) Modernization	1	2011	3	2016
MTS-B Updates	1	2011	3	2015
Lynx SAR Updates	1	2011	3	2015
Ka Migration	1	2013	1	2016
C-IED	1	2012	1	2013
MQ-9 Technology Insertion	1	2013	4	2015
Reliability and Maintainability	1	2013	4	2017
Operational Test	1	2011	2	2014