

UNCLASSIFIED

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

APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305235A: <i>UAS Modifications/Product Improvement Program</i>
---	---

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	-	7.500	2.387	-	2.387	51.019	122.502	61.087	60.696	Continuing	Continuing
P20: MQ-18	-	7.500	2.387	-	2.387	51.019	122.502	61.087	60.696	Continuing	Continuing

Note

Funds transferred from 0603820/D20

A. Mission Description and Budget Item Justification

The Army has a requirement to provide Intelligence, Surveillance, and Reconnaissance (ISR) platforms capable of operating in and near unfriendly territories/areas of conflict. The system shall be a rotary wing unmanned vertical takeoff and landing(VTOL) aircraft system not conducive to standard airfields but forward deployable to support extended operations in austere environment. The aircraft system will be made up of multiple aircraft (minimum of 4) that incorporates high value technologies in the airframe, propulsion, datalink systems, communications systems, and avionics systems. The system will be common with the Army selection of the Line of Sight and Beyond Line of Sight Tactical Common Data Link and the Universal Ground Control Station. The aircraft will simultaneously carry multi-functional payloads such as SIGINT, EO/IR/LD, and Wide Area Surveillance without degrading time on station. This system will provide dramatic improvements in operational flexibility and mission performance.

FY 2013 RDT&E funds will be used for Request for Proposal (RFP) and Source Selection.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	-	-	-	-	-
Current President's Budget	-	7.500	2.387	-	2.387
Total Adjustments	-	7.500	2.387	-	2.387
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments 1	-	7.500	2.387	-	2.387

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0305235A: UAS Modifications/Product Improvement Program				PROJECT P20: MQ-18			
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
P20: MQ-18	-	7.500	2.387	-	2.387	51.019	122.502	61.087	60.696	Continuing	Continuing
Quantity of RDT&E Articles											

Note

Not applicable for this item.

A. Mission Description and Budget Item Justification

The Army has a requirement to provide Intelligence, Surveillance, and Reconnaissance (ISR) platforms capable of operating in and near unfriendly territories/areas of conflict. The system shall be a rotary wing unmanned vertical takeoff and landing(VTOL) aircraft system not conducive to standard airfields but forward deployable to support extended operations in austere environment. The aircraft system will be made up of multiple aircraft (minimum of 4) that incorporates high value technologies in the airframe, propulsion, datalink systems, communications systems, and avionics systems. The system will be common with the Army selection of the Line of Sight and Beyond Line of Sight Tactical Common Data Link and the Universal Ground Control Station. The aircraft will simultaneously carry multi-functional payloads such as SIGINT, EO/IR/LD, and Wide Area Surveillance without degrading time on station. This system will provide dramatic improvements in operational flexibility and mission performance.

FY 2013 RDT&E funds will be used for Request for Proposal (RFP) and Source Selection.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2011	FY 2012	FY 2013
Title: Program Management Support Articles: Description: Funds Program Management to support Capabilities Development Document support, Milestone A Documentation Preparation, Industry Day, Request for Proposals, Statement of Work, Acquisition Documentation and Cost Analysis FY 2012 Plans: Provide funding for program management support FY 2013 Plans: Provide funding for program management support	-	4.000 0	2.387
Title: Analysis of Alternatives Articles: Description: Analysis of Alternatives FY 2012 Plans:	-	3.500 0	-

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army							DATE: February 2012				
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>			R-1 ITEM NOMENCLATURE PE 0305235A: <i>UAS Modifications/Product Improvement Program</i>			PROJECT P20: <i>MQ-18</i>					
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)											
							FY 2011	FY 2012	FY 2013		
Analysis of Alternatives											
Accomplishments/Planned Programs Subtotals							-	7.500	2.387		
C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• VTOL UAS / APA (A00035):								107.151	107.133	0.000	214.284
VTOL UAS / APA (A00035)											
D. Acquisition Strategy											
<p>The Medium Range Multi-Purpose Vertical Take-Off and Landing (VTOL) program is planned to enter the acquisition cycle at Milestone A in FY2013, and as such the contents of this acquisition strategy are still pre-decisional. Overall, the Army plans to conduct this program as full and open competition, incorporating the tenets of the Defense Acquisition Executive's Better Buying Power initiatives.</p> <p>The Army intends to use the Universal Ground Control Station (UGCS) and the Universal Ground Data Terminal (UGDT) already being integrated into the Gray Eagle program as the ground control element of this system. This is being done to ensure commonality, interoperability, and reduced life cycle cost. Assuming more than one competitive vendor, the Army plans to award two competitive, cost-type Technology Development (TD) contracts in FY 2014. The purpose of these contracts will be to reduce technical risk, to determine and mature the appropriate set of technologies to be integrated into the full system, and to demonstrate critical technologies on prototype.</p> <p>Following a successful Milestone B decision planned in FY2015, the Army intends to down select to one of the two TD vendors for the Engineering and Manufacturing Development (EMD) phase. The EMD contract is planned to be awarded as a cost-type contract.</p>											
E. Performance Metrics											
<p>Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.</p>											

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army											DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0305235A: <i>UAS Modifications/Product Improvement Program</i>				PROJECT P20: <i>MQ-18</i>					

Management Services (\$ in Millions)				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
Program Management	Various	Various:Various	-	4.000		2.387		-		2.387	Continuing	Continuing	0.000
Analysis of Alternatives	MIPR	Various:Various	-	3.500		-		-		-	0.000	3.500	0.000
Subtotal			-	7.500		2.387		-		2.387			0.000

	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	7.500		2.387		-		2.387			0.000

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Army			DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>		R-1 ITEM NOMENCLATURE PE 0305235A: <i>UAS Modifications/Product Improvement Program</i>		PROJECT P20: <i>MQ-18</i>	

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Technology Development																												
Technology System Readiness Review																												
Technology Preliminary Design Review																												
Milestone A																												
Milestone B																												
Technology Development PDR																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Army			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305235A: <i>UAS Modifications/Product Improvement Program</i>	PROJECT P20: <i>MQ-18</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Technology Development	1	2014	1	2016
Technology System Readiness Review	2	2014	2	2014
Tschnology Preliminary Design Review	2	2014	2	2014
Milestone A	1	2013	1	2013
Milestone B	4	2015	4	2015
Technology Development PDR	3	2014	3	2014