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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy	DATE: April 2013
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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305231N: MQ-8 UAV
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COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	116.491	110.011	99.600	48.713	-	48.713	51.607	63.093	26.451	1.948	Continuing	Continuing
2768: VTUAV	116.491	110.011	99.600	48.713	-	48.713	51.607	63.093	26.451	1.948	Continuing	Continuing

MDAP/MAIS Code(s): 253

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

MQ-8 Unmanned Aerial Vehicle Joint Military Intelligence Program.

The MQ-8 (popular name "Fire Scout") Vertical Take-off Unmanned Aerial Vehicle provides real-time and non-real-time Intelligence, Surveillance and Reconnaissance (ISR) data to tactical users without the use of manned aircraft or reliance on limited joint theater or national assets. The baseline MQ-8 can accomplish missions including over-the-horizon tactical reconnaissance, classification, targeting, laser designation and communications relay. The MQ-8 launches and recovers vertically and can operate from air capable ships, as well as confined area land bases. Other characteristics include autonomous air vehicle launch and recovery, autonomous waypoint navigation with command override capability, dual aircraft operations, the incorporation of weapons, the incorporation of an electro-optical/infra-red/laser designator-laser range finder modular mission payload, radar, automatic identification system, and other specialty payloads. Interoperability is achieved through the use of the Tactical Control System software in the ground control station, and through the use of the Tactical Common Data Link. The data from the MQ-8 will be provided through standard Department of Defense Command, Control, Communications, Computers and Intelligence, Surveillance, and Reconnaissance.

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014 Base</u>	<u>FY 2014 OCO</u>	<u>FY 2014 Total</u>
Previous President's Budget	108.248	99.600	49.200	-	49.200
Current President's Budget	110.011	99.600	48.713	-	48.713
Total Adjustments	1.763	0.000	-0.487	-	-0.487
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	1.763	0.000			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	0.000	0.000	-0.487	-	-0.487

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Change Summary Explanation Technical: Navy VTUAV restructured to support Rapid Deployment Capability (RDC) initiatives for MQ-8C Endurance Upgrade, radar, weapons, and Special Operations Forces ISR payloads into VTUAV program and to transition the endurance upgrade capability into a Navy Program of Record to leverage the current RDC effort. Schedule: MQ-8B Initial Operating Capability, Full Rate Production and Operational Evaluation (OPEVAL) changed due to a Navy decision to prioritize warfighter requirements in Afghanistan and other Urgent Operational Need locations ahead of OPEVAL. Additionally, the program will be procuring MQ-8C aircraft between FY12 and FY18 to support the SOF Rapid Deployment Capability 3 maritime orbit requirement. Radar RDC, Radar Integration Preliminary Design, Specialty Payload Reviews, and Quick Reaction Assessments (QRA) 2 changed due to Navy priorities and to align with fleet asset availability. VTUAV EMD changed to align with the expected completion of development efforts and contract closeout. COBRA Integration flight testing is complete. Littoral Combat Ship (LCS) Integration Review changed to align with warfighter priorities and the LCS schedule. QRAs changed due to Navy priority and program of record transition. RDC MQ-8C II contract award changed to align with the revised contract schedule. Transition endurance upgrade capability to a Navy Program of Record.		

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0305231N: MQ-8 UAV				PROJECT 2768: VTUAV			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
2768: VTUAV	116.491	110.011	99.600	48.713	-	48.713	51.607	63.093	26.451	1.948	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

The MQ-8 Vertical Take-Off and Landing Tactical Unmanned Aerial Vehicle (VTUAV, popular name "Fire Scout") provides real-time and non-real-time Intelligence, Surveillance and Reconnaissance (ISR) data to tactical users without the use of manned aircraft or reliance on limited joint theater or national assets. The baseline MQ-8 can accomplish missions including over-the-horizon tactical reconnaissance, classification, targeting and laser designation and including voice relay. The MQ-8 launches and recovers vertically, and can operate from air capable ships, as well as confined area land bases. Interoperability is achieved through the use of the Tactical Control System (TCS) software in the Ground Control Station (GCS), and through the use of the Tactical Common Data Link (TCDL). The data from the MQ-8 will be provided through standard DoD Command, Control, Communications, Computers and Intelligence Surveillance, and Reconnaissance system architectures and protocols.

The MQ-8 system is comprised of air vehicles, electro-optical/infra-red/laser designator-range finder payloads, GCS (with TCS and TCDL integrated for interoperability), UAV Common Automatic Recovery System (UCARS) for automatic take-off and landings, and associated spares and support equipment. The MQ-8 system supports Surface Warfare, Mine Countermeasures Warfare, and Anti-Submarine Warfare mission modules while operating onboard Littoral Combat Ship (LCS). The MQ-8 is currently deployed on FFG ships and will be deployed on alternate classes of ships (including DDG, JHSV and others as assigned) supporting US Africa Command (AFRICOM) Joint Urgent Operational Needs Statement (JUONS), AF-002, and the Navy Weapons and Radar Urgent Operations Needs (UONS), via Rapid Deployment Capability (RDC) acquisitions. MQ-8 performs land-based operations in support of the ISR Task Force and Army units. A limited number of land-based ground control stations supplement the system to support shore based operations, such as pre-deployment or acceptance functional check flights. These land based ground control stations will also support depot level maintenance/post-maintenance activities.

Endurance upgrade RDC is in response to AFRICOM JUONS, AF-002, dated 10 May 2011 request for a sea-based ISR. This JUONS was revalidated as a Joint Emergent Operational Need (JEON) on 28 July 2011. Endurance Upgrade RDC will provide a maritime based VTUAV equipped with endurance upgrade, referred to as MQ-8C, providing increased range and endurance, procure additional endurance upgrade aircraft, and modify 12 ships. The MQ-8C RDC re-hosts the avionics, software and Command and Control (C2) sub-systems into a new airframe which will provide the extended endurance and range capacity necessary to support the JEONS requirements for orbital coverage in specific Areas of Responsibility. Two test aircraft with spares and support equipment will be utilized for developmental testing. The MQ-8C effort will also assess/integrate new payloads/avionics to improve system reliability and performance, payloads that are specific to the SOF mission, electronic warfare payloads, Automated Identification System, specialty payloads as well as weapons and radar capabilities developed under MQ-8B RDCs. The endurance capability will be transitioned to a Navy Program of Record.

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The MQ-8 increased endurance capability and payload capacity may allow the Navy to meet LCS mission requirements with fewer aircraft lowering the Fire Scout's total ownership cost.				
The Vertical Take-Off Unmanned Aerial Vehicle, MQ-8B, is post Milestone C (MS C), which was approved in May 2007. MS C authorized entry into Low Rate Initial Production. A total of seven air vehicles and three control stations were previously purchased with Research Development Test & Evaluation funds under System Design Development. The MQ-8B is currently deployed in Afghanistan supporting the ISR Task Force and deployed on Navy FFGs partially supporting the AFRICOM JEON for SOF.				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Title: Hardware and System Development Articles: FY 2012 Accomplishments: Begin MQ-8C Rapid Development Capability (RDC) hardware, software modifications and integration. Continue development and testing of Special Operations Forces (SOF) provided payloads. Continue integration of the radar, weapons, specialty payloads, and COBRA payload. Complete Vertical Take-off Unmanned Air Vehicle (VTUAV) systems development. Continue to support Littoral Combat Ship (LCS) integration. Continue Weapons requirement development, integration and a Quick Reaction Assessment as required for RDC designated programs. Start design efforts to integrate MQ-8 onto the DDG-51 Flight IIA Class Ship, FFG, JHSV, and others as assigned. FY 2013 Plans: Continue MQ-8C RDC hardware, software modifications and Weapons RDC, radar and other payload integration, continue LCS testing, and continue other air capable ship class integration and testing, including DDG, FFG, JHSV, and others as assigned. FY 2014 Plans: Continue MQ-8C RDC hardware, software modifications and other payload integration. Continue LCS testing, and continue other air capable ship classes integration and testing. Complete MQ-8C Quick Reaction Assessment (QRA). Initiate acquisition planning to transition the MQ-8 endurance upgrade capability to a Navy Program of Record.		74.142 2	73.270 0	28.891 0
Title: Development/Operational Testing Articles: FY 2012 Accomplishments: Continue VTUAV SOF system payloads. Continue LCS integration efforts. Continue Weapons and radar integration efforts. FY 2013 Plans: Continue MQ-8C RDC Developmental Testing. Start Radar Developmental Testing and prepare for QRA testing. Continue LCS and other Class Ship integration and testing. Continue Weapons RDC testing. Start Operational Evaluation of MQ-8 Baseline. FY 2014 Plans:		10.430 0	6.930 0	6.100 0

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)							FY 2012	FY 2013	FY 2014		
Continue MQ-8C RDC Developmental and Government Testing. Complete DDG-51 Flight IIA testing. Continue LCS and other Class Ship integration and testing. Continue radar, weapons, and other payload integration and testing. Complete Operational Evaluation of MQ-8B Baseline. Complete MQ-8C QRA. Complete Radar RDC QRA.											
Title: Engineering and Technical Services							25.439	19.400	13.722		
Articles:							0	0	0		
FY 2012 Accomplishments: Continue engineering, program technical management, and logistics support for the Vertical Take-off Unmanned Air Vehicle (VTUAV) system and Rapid Developmental Capability (RDC) efforts. These include transportation of system assets, program office personnel travel, and contract support services. Continue to support Littoral Combat Ship (LCS) integration. Continue payloads integration. Continue Weapons integration, systems engineering, and test and evaluation. Continue Engineering and Logistics to Transition Weapons, Radar, and Special Operations Forces payloads RDC.											
FY 2013 Plans: Continue engineering, program technical management, and logistics support for the VTUAV system. These include transportation of system assets, program office personnel travel, and contract support services. Continue to support LCS and other Class Ship integration and payload integration. Continue Weapons integration, weapons studies, systems engineering, and test and evaluation. Continue MQ-8C RDC integration. Continue payload and system studies.											
FY 2014 Plans: Continue engineering, program technical management, logistics support for the VTUAV system. Initiate acquisition planning to transition the MQ-8 endurance upgrade capability to a Navy Program of Record. Continue payload and system studies.											
Accomplishments/Planned Programs Subtotals							110.011	99.600	48.713		
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• APN, 044300: MQ-8 UAV	191.986	124.573	60.980		60.980	117.122	150.556	75.875	72.543	2,182.955	3,297.250
• APN, 060510: MQ-8 UAV Spares	33.285	9.222	15.600		15.600	4.088	0.000	0.000	0.000	0.000	109.894
• APN, 058800: MQ-8 Series	0.000	0.000	1.001		1.001	1.002	4.855	0.131	0.000	124.850	131.839
Remarks											
D. Acquisition Strategy											
Continue incremental integration of MQ-8 System to support the Engineering and Manufacturing Development program and RDC efforts. Continue the MQ-8 program, payload integration, weaponization and Littoral Combat Ship and other Ship Class integration support. Full Rate Production and Initial Operational Capability will follow											

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completion of Operational Test and Evaluation. Maintain commonality of MQ-8B and MQ-8C payloads, avionics, software, and ancillary equipment where possible. Transition the MQ-8C capability to a program of record that will support both Navy and SOF missions. E. Performance Metrics Successfully provide an MQ-8 system that supports operational deployments. Successfully achieve Coastal Battlefield Reconnaissance and Analysis integration. Successfully achieve Radar Sensor RDC. Successfully achieve Ship Integration. Successfully achieve weaponization RDC. Successfully support interim Special Operations Forces mission.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0305231N: MQ-8 UAV				PROJECT 2768: VTUAV					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary Hardware Development	C/CPIF	Northrop Grumman Corp:San Diego, CA	81.622	66.891	Nov 2011	70.270	Nov 2012	28.891	Nov 2013	-		28.891	78.200	325.874	355.474
Primary Hardware Development	C/CPIF	Raytheon Corp:Falls Church, VA	7.000	7.251	Nov 2011	3.000	Nov 2012	0.000		-		0.000	5.900	23.151	23.251
Subtotal			88.622	74.142		73.270		28.891		0.000		28.891	84.100	349.025	378.725
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Integrated Logistics Support	Various	Various:Various	1.165	2.812	Nov 2011	5.600	Nov 2012	2.100	Nov 2013	-		2.100	11.900	23.577	
Subtotal			1.165	2.812		5.600		2.100		0.000		2.100	11.900	23.577	
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	NAWCAD:PAXRV, MD	0.000	9.693	Nov 2011	5.430	Nov 2012	4.500	Nov 2013	-		4.500	10.900	30.523	
Operational Test & Evaluation/QRA	WR	NAWCAD:PAXRV, MD	0.650	0.350	Nov 2011	1.500	Nov 2012	1.600	Nov 2013	-		1.600	4.200	8.300	
Prior Years T&E	Various	Various:Various	0.342	0.000		0.000		0.000		-		0.000	0.000	0.342	
Subtotal			0.992	10.043		6.930		6.100		0.000		6.100	15.100	39.165	
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Engineering Support	WR	NAWCAD:PAXRV, MD	24.465	18.183	Nov 2011	8.300	Nov 2012	6.222	Nov 2013	-		6.222	19.200	76.370	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy													DATE: April 2013		
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Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	Various	Various:Various	0.370	2.814	Nov 2011	5.200	Nov 2012	5.100	Nov 2013	-		5.100	12.800	26.284	
Travel	WR	NAVAIR:PAXRV, MD	0.277	0.316	Nov 2011	0.300	Nov 2012	0.300	Nov 2013	-		0.300	Continuing	Continuing	Continuing
Contractor Engineering Support	Various	Various:Various	0.600	1.701	Nov 2011	0.000		0.000		-		0.000	0.000	2.301	
Subtotal			25.712	23.014		13.800		11.622		0.000		11.622			

Remarks Travel contract type is TO.															
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	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	116.491	110.011		99.600		48.713		0.000		48.713			

Remarks															
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PE 0305231N: MQ-8 UAV
Navy

R-1 Line #214

APPROPRIATION/BUDGET ACTIVITY
1319: Research, Development, Test & Evaluation, Navy
BA 7: Operational Systems Development

PE 0305231N: MQ-8 UAV

2768: VTUAV



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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305231N: MQ-8 UAV	PROJECT 2768: VTUAV	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2768				
Milestones: Initial Operational Capability	4	2014	4	2014
Milestones: MQ-8 Program of Record: Initial Operational Capability - MQ-8C	3	2017	3	2017
Milestones: MQ-8 Program of Record: Full Rate Production Decision	2	2017	2	2017
Milestones: MQ-8C Program of Record: Milestone C	1	2015	1	2015
Milestones: MQ-8C Program of Record: ASR Approval	1	2014	1	2014
Systems Development: RDC MQ-8B: Radar RDC	4	2012	3	2014
Systems Development: RDC MQ-8B: Radar Integration Preliminary Design	1	2012	4	2012
Systems Development: RDC MQ-8C: MQ-8C Radar, Weapons, and other payloads	3	2012	1	2015
Systems Development: Engineering and Manufacturing Development: VTUAV	1	2012	2	2013
Systems Development: Engineering and Manufacturing Development: Coastal Battlefield Reconnaissance and Analysis Integration	1	2012	2	2013
Systems Development: Engineering and Manufacturing Development: Littoral Combat Ship Integration	1	2012	4	2016
Systems Development: Engineering and Manufacturing Development: Payload, Obsolescence, Software, Analysis, and SOF RDC	1	2012	3	2018
Reviews: MQ-8C RDC: System Readiness Review	3	2012	3	2012
Reviews: MQ-8C RDC: Preliminary Design Review	4	2012	4	2012
Reviews: MQ-8C RDC: Critical Design Review	1	2013	1	2013
Reviews: MQ-8C RDC: Quick Reaction Assessment Endurance MQ-8C	3	2014	3	2014
Test & Evaluation (T&E): Specialty Payloads Review	1	2012	3	2016
Test & Evaluation (T&E): MQ-8B Operational Evaluation: MQ-8 OT-C1	4	2013	1	2014

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013	
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		Start		End
Events by Sub Project		Quarter	Year	Quarter Year
Test & Evaluation (T&E): MQ-8B Operational Evaluation: Littoral Combat Ship Integration Review		2	2014	4 2016
Test & Evaluation (T&E): MQ-8 Program of Record: Operational Evaluation		4	2016	1 2017
Test & Evaluation (T&E): MQ-8 Program of Record: Technical Evaluation		2	2016	3 2016
Test & Evaluation (T&E): MQ-8 Program of Record: Integration and Test		1	2015	1 2017
Test & Evaluation (T&E): MQ-8 Program of Record: MQ-8C Contract Award		1	2015	1 2015
Production Milestones: Contract Awards: Rapid Deployment Capability (RDC) MQ-8C I		3	2012	3 2012
Production Milestones: Contract Awards: Rapid Deployment Capability (RDC) MQ-8C II		3	2013	3 2013
Production Milestones: Contract Awards: Rapid Deployment Capability (RDC) MQ-8C III		1	2014	1 2014
Production Milestones: Contract Awards: Rapid Deployment Capability (RDC) MQ-8C IV		2	2015	2 2015
Production Milestones: Contract Awards: Rapid Deployment Capability (RDC) MQ-8C V		2	2016	2 2016
Production Milestones: Contract Awards: Rapid Deployment Capability (RDC) MQ-8C VI		2	2017	2 2017
Deliveries: Air Vehicles - LRIP IV APN		1	2012	1 2013
Deliveries: Air Vehicles - LRIP V APN		3	2013	4 2013
Deliveries: Air Vehicles - RDC MQ-8C I		1	2014	3 2014
Deliveries: Air Vehicles - RDC MQ-8C II		4	2014	2 2015
Deliveries: Air Vehicles - RDC MQ-8C III		3	2015	2 2016
Deliveries: Air Vehicles - RDC MQ-8C IV		3	2016	2 2017
Deliveries: Air Vehicles - RDC MQ-8C V		3	2017	2 2018
Deliveries: Air Vehicles - RDC MQ-8C VI		3	2018	4 2018