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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0305231N / MQ-8 UAV							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	226.502	83.827	41.713	47.294	-	47.294	53.199	33.446	6.533	6.576	Continuing	Continuing
2768: VTUAV	226.502	83.827	41.713	47.294	-	47.294	53.199	33.446	6.533	6.576	Continuing	Continuing
MDAP/MAIS Code: 253												
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
MQ-8 Unmanned Air System 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 (TCDL). Data from the MQ-8 will be provided through standard Department of Defense Command, Control, Communications, Computers and ISR.												
A Fire Scout system is comprised of air vehicles, payloads (electro-optical/infra-red/laser designator-range finder), Ground Control Station (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. A total of 56 systems are planned to support training, maintenance, test and Littoral Combat Ship (LCS) requirements. 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.												
The MQ-8 system is post Milestone C (MS C), which was approved in May 2007. MS C authorized entry into Low Rate Initial Production. The system is currently deployed on Navy Guided Missile Frigates (FFGs). The Navy has truncated MQ-8B procurement with the last LRIP buy in FY11. 21 of the 23 LRIP aircraft (90%) have been delivered. Once delivery is complete, the 23 aircraft will support 8 Fire Scout systems. MQ-8B airframes will continue to support maritime based ISR from FFGs, support LCS DT/OT events and LCS deployments. MQ-8B airframes will sunset through attrition.												
The MQ-8C Endurance Upgrade Rapid Deployment Capability (RDC) provides additional mission endurance, payload-weight-power, increased reliability, and improved maintenance to the Fire Scout System. The Navy plans to transition the MQ-8C capability into the Program of Record. The MQ-8C is a more cost efficient and capable system that meets both the Joint Emergent Operational Need Statement (JEONS) and the Fire Scout Capability Production Document (CPD). The Navy plans to												

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procure 48 MQ-8C based systems to support Littoral Combat Ship. This budget transitions the MQ-8C Endurance Upgrade, Radar, and Weapons capabilities into the Program of Record to meet both the JEONS and CPD requirements with a single system.						
B. Program Change Summary (\$ in Millions)		FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget		99.600	48.713	51.607	-	51.607
Current President's Budget		83.827	41.713	47.294	-	47.294
Total Adjustments		-15.773	-7.000	-4.313	-	-4.313
• Congressional General Reductions		-	-			
• Congressional Directed Reductions		-	-7.000			
• Congressional Rescissions		-	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-	-			
• Reprogrammings		-	-			
• SBIR/STTR Transfer		-	-			
• Program Adjustments		-	-	5.287	-	5.287
• Rate/Misc Adjustments		-	-	-9.600	-	-9.600
• Congressional General Reductions Adjustments		-8.173	-	-	-	-
• Congressional Directed Reductions Adjustments		-7.600	-	-	-	-
Change Summary Explanation						
Technical: FYDP funds support the Navy decision to transition MQ-8C Endurance Upgrade, Radar, and Weapons capabilities into the Program of Record.						
Schedule:						
Revised milestone terminology: Aligns with Navy decision to transition the MQ-8C Endurance Upgrade, Weapons and Radar capabilities into the Program of Record.						
Updated MQ-8C transition timeline.						
Updated System Development Littoral Combat Ship (LCS) Integration schedule to align with Anti-Submarine Warfare (ASW)/Mine Counter-Measures (MCM)/Surface Warfare (SUW) mission package integration schedule.						
Added schedule events for ASW/MCM/SUW LCS mission package integration.						
Adjusted production and delivery schedules for out-year procurements.						
Adjusted Quick Reaction Assessment event and added DDG-51 Test.						

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 7					R-1 Program Element (Number/Name) PE 0305231N / MQ-8 UAV				Project (Number/Name) 2768 / VTUAV			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2768: VTUAV	226.502	83.827	41.713	47.294	-	47.294	53.199	33.446	6.533	6.576	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
<p>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 (TCDL). Data from the MQ-8 will be provided through standard Department of Defense Command, Control, Communications, Computers and ISR.</p>												
<p>A Fire Scout system is comprised of air vehicles, payloads (electro-optical/infra-red/laser designator-range finder), Ground Control Station (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. A total of 56 systems are planned to support training, maintenance, test and Littoral Combat Ship (LCS) requirements. 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.</p>												
<p>The MQ-8 system is post Milestone C (MS C), which was approved in May 2007. MS C authorized entry into Low Rate Initial Production. The system is currently deployed on Navy Guided Missile Frigates (FFGs). The Navy has truncated MQ-8B procurement with the last LRIP buy in FY11. 21 of the 23 LRIP aircraft (90%) have been delivered. Once delivery is complete, the 23 aircraft will support 8 Fire Scout systems. MQ-8B airframes will continue to support maritime based ISR from FFGs, support LCS DT/OT events and LCS deployments. MQ-8B airframes will sunset through attrition.</p>												
<p>The MQ-8C Endurance Upgrade Rapid Deployment Capability (RDC) provides additional mission endurance, payload-weight-power, increased reliability, and improved maintenance to the Fire Scout System. The Navy plans to transition the MQ-8C capability into the Program of Record. The MQ-8C is a more cost efficient and capable system that meets both the Joint Emergent Operational Need (JEONS) Statement and the Fire Scout Capability Production Document (CPD). The Navy plans to procure 48 MQ-8C based systems to support Littoral Combat Ship. This budget transitions the MQ-8C Endurance Upgrade, Radar, and Weapons capabilities into the Program of Record to meet both the JEONS and CPD requirements with a single system.</p>												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Hardware and System Development									77.760	21.891	21.900	

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014		
Appropriation/Budget Activity 1319 / 7		R-1 Program Element (Number/Name) PE 0305231N / MQ-8 UAV		Project (Number/Name) 2768 / VTUAV	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2013	FY 2014	FY 2015
<p align="right">Articles:</p> <p>FY 2013 Accomplishments: Continue MQ-8C Rapid Deployment Capability (RDC) and Radar RDC hardware, software modifications and Weapons RDC, radar and other payload integration, continue Littoral Combat Ship (LCS) testing, and continue other air capable ship class integration and testing, including Guided Missile Destroyer (DDG), FFG, Joint High Speed Vessel (JHSV), and others as assigned.</p> <p>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 MQ-8 system upgrade with the MQ-8C air vehicle subsystem.</p> <p>FY 2015 Plans: Continue MQ-8C RDC hardware, software modifications, Coastal Battlefield Reconnaissance and Analysis (COBRA), and other payload integration. Continue MQ-8B and MQ-8C integration and testing on LCS. Complete and correct deficiencies from MQ-8C and Radar QRAs. Initiate MQ-8C Endurance Upgrade, Radar, and Weapons capabilities into the Program of Record.</p>			-	-	-
<p>Title: Development/Operational Testing</p> <p align="right">Articles:</p> <p>FY 2013 Accomplishments: 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.</p> <p>FY 2014 Plans: Continue MQ-8C RDC and Radar 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 Testing of MQ-8B Baseline. Complete MQ-8C QRA. Complete Radar RDC QRA.</p> <p>FY 2015 Plans: Complete MQ-8C RDC Developmental and Government Testing. Continue LCS integration and testing. Continue other payload integration and testing. Complete MQ-8C and Radar RDC correct of deficiency testing. Initiate development testing for Endurance Upgrade, Radar, Weapons, other payload capabilities.</p>			1.609 -	6.100 -	7.500 -
<p>Title: Engineering and Technical Services</p> <p align="right">Articles:</p> <p>FY 2013 Accomplishments: Continue engineering, program technical management, and logistics support for the Vertical Take-off Unmanned Aerial Vehicle (VTUAV) system. These include transportation of system assets, program office personnel travel, and contract support services.</p>			4.458 -	13.722 -	17.894 -

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Appropriation/Budget Activity 1319 / 7				R-1 Program Element (Number/Name) PE 0305231N / MQ-8 UAV				Project (Number/Name) 2768 / VTUAV				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2013	FY 2014	FY 2015
Continue to support Littoral Combat Ship (LCS) and other Class Ship integration and payload integration. Continue Weapons integration, weapons studies, systems engineering, and test and evaluation. Continue MQ-8C Rapid Deployment Capability (RDC) integration. Continue payload and system studies.												
FY 2014 Plans: Continue engineering, program technical management, logistics support for the VTUAV system. Initiate MQ-8 system upgrade with the MQ-8C air vehicle subystem. Continue payload and system studies and design.												
FY 2015 Plans: Continue engineering, program technical management, logistics support. Continue acquisition planning to transition the MQ-8C, Radar, and Weapons capabilities into the Program of Record. Continue Radar, Weapons, other payloads, LCS capabilities payloads, and system studies and design.												
Accomplishments/Planned Programs Subtotals										83.827	41.713	47.294
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
• APN, 044300: MQ-8 UAV	110.402	74.080	40.663	-	40.663	37.535	28.403	24.372	25.755	1,678.910	2,530.266	
• APN, 060510: MQ-8 UAV Spares	7.135	15.600	6.573	-	6.573	6.651	0.250	0.250	0.250	-	117.693	
• APN, 058800: MQ-8 Series	-	-	8.741	-	8.741	22.608	20.138	9.778	5.696	113.392	180.353	
Remarks												
D. Acquisition Strategy The Navy is updating our acquisition strategy to restructure the Fire Scout program and capitalize on Rapid Deployment Capability (RDC) efforts, while leveraging existing program investments. Maintain commonality of MQ-8B and MQ-8C systems, payloads, avionics, software, and ancillary equipment where possible. Continue integration and test of Endurance Upgrade, Radar, and Weapons capabilities to support the Capability Production Document and Joint Emergent Operational Need Statement requirements. Initial Operational Capability (IOC) is anticipated in 2QFY14. A Full Rate Production decision and Littoral Combat Ship IOC will follow completion of Operational Test.												
E. Performance Metrics Successfully provide an MQ-8C variant that supports operational deployments. Successfully provide Radar Rapid Deployment Capability for operational deployments. Successfully achieve LCS Ship Integration. Successfully support interim U.S. Special Operations Command mission.												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy													Date: March 2014		
Appropriation/Budget Activity 1319 / 7						R-1 Program Element (Number/Name) PE 0305231N / MQ-8 UAV				Project (Number/Name) 2768 / VTUAV					
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	148.513	75.760	Nov 2012	21.891	Nov 2013	19.745	Nov 2014	-		19.745	78.200	344.109	344.109
Primary Hardware Development	C/CPIF	Raytheon Corp : Falls Church, VA	14.251	2.000	Nov 2012	-		2.155	Nov 2014	-		2.155	5.900	24.306	24.306
Subtotal			162.764	77.760		21.891		21.900		-		21.900	84.100	368.415	368.415
Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	3.977	-	Nov 2012	2.100	Nov 2013	4.420	Nov 2014	-		4.420	11.900	22.397	-
Subtotal			3.977	-		2.100		4.420		-		4.420	11.900	22.397	-
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	9.693	0.278	Nov 2012	4.500	Nov 2013	5.100	Nov 2014	-		5.100	10.900	30.471	-
Operational Test & Evaluation/QRA	WR	NAWCAD : PAXRV, MD	1.000	1.331	Nov 2012	1.600	Nov 2013	2.400	Nov 2014	-		2.400	4.200	10.531	-
Prior Years T&E no longer funded in the FYDP	Various	Various : Various	0.342	-		-		-		-		-	-	0.342	-
Subtotal			11.035	1.609		6.100		7.500		-		7.500	15.100	41.344	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy												Date: March 2014			
Appropriation/Budget Activity 1319 / 7						R-1 Program Element (Number/Name) PE 0305231N / MQ-8 UAV				Project (Number/Name) 2768 / VTUAV					

Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	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	42.648	0.931	Nov 2012	6.222	Nov 2013	7.380	Nov 2014	-		7.380	19.200	76.381	-
Program Management Support	Various	Various : Various	3.184	3.287	Nov 2012	5.100	Nov 2013	5.624	Nov 2014	-		5.624	12.800	29.995	-
Travel	WR	NAVAIR : PAXRV, MD	0.593	0.240	Nov 2012	0.300	Nov 2013	0.470	Nov 2014	-		0.470	Continuing	Continuing	Continuing
Prior years Mgmt Svcs no longer funded in the FYDP	Various	Various : Various	2.301	-		-		-		-		-	-	2.301	-
Subtotal			48.726	4.458		11.622		13.474		-		13.474	-	-	-

Remarks Travel contract type is TO.															
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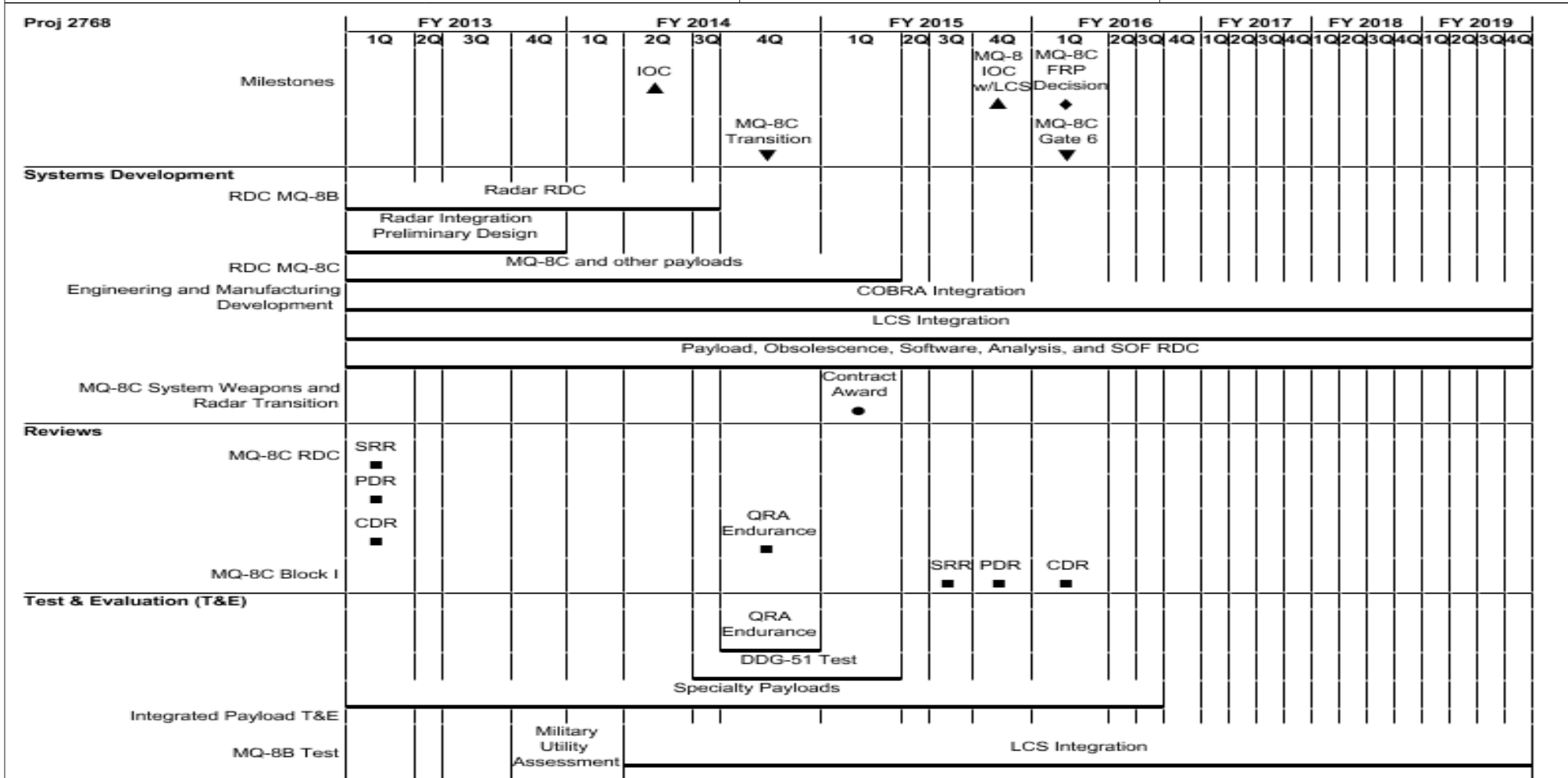
	Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	226.502	83.827		41.713		47.294		-		47.294	-	-	-

Remarks															
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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Navy	Date: March 2014
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Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305231N / MQ-8 UAV	Project (Number/Name) 2768 / VTUAV
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PE 0305231N: MQ-8 UAV
Navy

R-1 Line #219

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2015PB - 0305231N - 2768

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305231N / MQ-8 UAV	Project (Number/Name) 2768 / VTUAV	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2768				
Milestones: MQ-8 Initial Operational Capability (IOC)	2	2014	2	2014
Milestones: MQ-8 Initial Operational Capability (IOC) - MQ-8C Littoral Combat Ship (LCS)	4	2015	4	2015
Milestones: MQ-8C Full Rate Production (FRP) Decision	1	2016	1	2016
Milestones: MQ-8C Upgrade Gate 6	1	2016	1	2016
Milestones: MQ-8C Acquisition Strategy Report (ASR) Approval for transition	4	2014	4	2014
Systems Development: RDC MQ-8B: Radar Rapid Deployment Capability (RDC)	1	2013	3	2014
Systems Development: RDC MQ-8B: Radar Integration Preliminary Design	1	2013	4	2013
Systems Development: RDC MQ-8C: MQ-8C and Special Operations Forces (SOF) payloads	1	2013	1	2015
Systems Development: Engineering and Manufacturing Development: Coastal Battlefield Reconnaissance and Analysis Integration (COBRA), BLK 1/2/3	1	2013	4	2019
Systems Development: Engineering and Manufacturing Development: Littoral Combat Ship (LCS) Integration	1	2013	4	2019
Systems Development: Engineering and Manufacturing Development: Payload, Obsolescence, Software, Analysis, and Special Operations Forces (SOF) Rapid Deployment Capability (RDC)	1	2013	4	2019
Systems Development: MQ-8C System Weapons and Radar Transition: MQ-8C Block I Contract Award	1	2015	1	2015
Reviews: MQ-8C RDC: System Requirements Review (SRR)	1	2013	1	2013
Reviews: MQ-8C RDC: Preliminary Design Review (PDR)	1	2013	1	2013
Reviews: MQ-8C RDC: Critical Design Review (CDR)	1	2013	1	2013
Reviews: MQ-8C RDC: Quick Reaction Assessment (QRA) Endurance MQ-8C	4	2014	4	2014
Reviews: MQ-8C Block I: System Requirements Review (SRR)	3	2015	3	2015

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy			Date: March 2014	
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305231N / MQ-8 UAV		Project (Number/Name) 2768 / VTUAV	
	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year
Reviews: MQ-8C Block I: Preliminary Readiness Review (PRR)	4	2015	4	2015
Reviews: MQ-8C Block I: Critical Design Review (CDR)	1	2016	1	2016
Test & Evaluation (T&E): MQ-8C RDC Quick Reaction Assessment (QRA)	4	2014	4	2014
Test & Evaluation (T&E): DDG-51 Test	3	2014	1	2015
Test & Evaluation (T&E): Specialty Payloads	1	2013	3	2016
Test & Evaluation (T&E): MQ-8B Test: MQ-8	4	2013	1	2014
Test & Evaluation (T&E): MQ-8B Test: Littoral Combat Ship (LCS) Integration	2	2014	4	2019
Test & Evaluation (T&E): MQ-8C System Transition: Operational Test and Evaluation (OT&E)	2	2015	4	2015
Test & Evaluation (T&E): MQ-8C Radar and Weapons Transition: Developmental Test (DT)	1	2016	3	2016
Test & Evaluation (T&E): MQ-8C Radar and Weapons Transition: Operational Test (OT)	4	2016	4	2016
Test & Evaluation (T&E): MQ-8C Radar and Weapons Transition: Littoral Combat Ship (LCS) Mission Package Testing	1	2015	4	2019
Production Milestones: Contract Awards: Rapid Deployment Capability (RDC) MQ-8C I	1	2013	1	2013
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	2	2014	2	2014
Deliveries: Air Vehicles - LRIP IV APN	1	2013	1	2013
Deliveries: Air Vehicles - LRIP V APN	3	2014	4	2014
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