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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Navy										Date: February 2015		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0305421N / RQ-4 Modernization							
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	0.000	-	5.000	150.854	-	150.854	220.219	108.038	41.027	42.181	Continuing	Continuing
2939: RQ-4 Modernization	0.000	-	5.000	150.854	-	150.854	220.219	108.038	41.027	42.181	Continuing	Continuing
Program MDAP/MAIS Code: 373												
Note MQ-4C Triton RDTE funding for modernization has been segregated into a new program element (from PE 0305220N to PE 0305421N) in order to satisfy Congressional direction for increased transparency. In the FY2015 Appropriations Act, Congress limited the amount of FY2015 funding in the modernization line (PE 0305421N) to \$5M until a review of the capability development document is completed by the Joint Requirements Oversight Council (JROC). In concert with completion of the JROC review, the Navy will request a reprogramming from Congress to move the remaining required FY15 funding from PE 0305220N into PE 0305421N in order to maintain the Triton Multi-Intelligence phased capability upgrade schedule.												
A. Mission Description and Budget Item Justification MQ-4C Triton Unmanned Air System (UAS). The popular name Triton was approved for the MQ-4C UAS in June 2012, designating the RQ-4 Broad Area Maritime Surveillance (BAMS) UAS as the MQ-4C Triton. The MQ-4C Triton is a high altitude-long endurance UAS designed to provide Fleet and combatant commanders with persistent maritime Intelligence, Surveillance and Reconnaissance (ISR) of nearly all the world's high-density sea-lanes, littorals, and areas of national interest. Teamed with its manned-capability counterpart, the P-8A, Triton will be a key component of the Navy's family of systems to achieve maritime domain awareness. MQ-4C Triton will seek to leverage Maritime Patrol and Reconnaissance Force manpower, training and maintenance efficiencies. The MQ-4C Triton features sensors designed to provide near worldwide coverage through a network of five orbits inside and outside continental United States, with sufficient air vehicles to remain airborne for 24 hours a day, 7 days a week, out to ranges of 2000 nautical miles. Onboard sensors will provide detection, classification, tracking and identification of maritime targets and include maritime radar, electro-optical/infra-red and Electronic Support Measures systems. Additionally, the MQ-4C will have a communications relay capability designed to link dispersed forces in the theater of operations and serve as a node in the Navy's FORCEnet strategy. Tactical-level data analysis will occur in real-time at shore-based mission control sites connected to the air vehicle via satellite communications. Further intelligence exploitation can be conducted at Fleet shore-based sites or aboard aircraft carriers and other ships. The MQ-4C Triton UAS will implement phased capability upgrades within the ongoing acquisition program to pace capability with rapidly evolving technologies and threats to ensure the Navy maintains persistent ISR dominance through the system's lifecycle, and to support the OPNAV N2/N6 Intelligence, Surveillance, Reconnaissance and Targeting transition plan. System upgrades will include Multi-Intelligence capabilities, Counter Electronic Attack upgrades, a more robust electronic support capability and continue improvements to baseline mission system payloads.												

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MQ-4C will play a significant role in the Sea Shield and FORCEnet pillars of Sea Power 21. In its Sea Shield role, the system will rely on its key attribute of persistence to provide the supported combatant command or fleet commander with unparalleled situational awareness of the maritime battle space as it develops and sustains the common operational tactical picture. The system will also serve as a Fleet response plan enabler, while acting as a trip wire for intelligence preparation of the environment. Additionally, Triton Unmanned Air System will be a FORCEnet enabler and relay platform, directly connected to both the Global Information Grid and the Distributed Common Ground System-Navy information backbone.

B. Program Change Summary (\$ in Millions)	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016 Base</u>	<u>FY 2016 OCO</u>	<u>FY 2016 Total</u>
Previous President's Budget	-	-	-	-	-
Current President's Budget	-	5.000	150.854	-	150.854
Total Adjustments	-	5.000	150.854	-	150.854
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	5.000			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	-	-	150.854	-	150.854

Change Summary Explanation

Technical: MQ-4C Triton RDTE funding for modernization, which includes Multi-Intelligence capabilities, has been segregated into a new program element (PE 0305421N) in order to satisfy Congressional direction for increased transparency.
 Schedule: N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy										Date: February 2015		
Appropriation/Budget Activity 1319 / 7					R-1 Program Element (Number/Name) PE 0305421N / RQ-4 Modernization				Project (Number/Name) 2939 / RQ-4 Modernization			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
2939: RQ-4 Modernization	-	-	5.000	150.854	-	150.854	220.219	108.038	41.027	42.181	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

MQ-4C Triton Unmanned Air System (UAS). The MQ-4C Triton is a high altitude-long endurance UAS designed to provide Fleet and combatant commanders with persistent maritime Intelligence, Surveillance and Reconnaissance (ISR) of nearly all the world's high-density sea-lanes, littorals, and areas of national interest. Teamed with its manned-capability counterpart, the P-8A, Triton will be a key component of the Navy's family of systems to achieve maritime domain awareness. MQ-4C Triton will seek to leverage Maritime Patrol and Reconnaissance Force manpower, training and maintenance efficiencies.

The MQ-4C Triton features sensors designed to provide near worldwide coverage through a network of five orbits inside and outside continental United States, with sufficient air vehicles to remain airborne for 24 hours a day, 7 days a week, out to ranges of 2000 nautical miles. Onboard sensors will provide detection, classification, tracking and identification of maritime targets and include maritime radar, electro-optical/infra-red and Electronic Support Measures systems. Additionally, the MQ-4C will have a communications relay capability designed to link dispersed forces in the theater of operations and serve as a node in the Navy's FORCEnet strategy. Tactical-level data analysis will occur in real-time at shore-based mission control sites connected to the air vehicle via satellite communications. Further intelligence exploitation can be conducted at Fleet shore-based sites or aboard aircraft carriers and other ships.

The MQ-4C Triton UAS will implement phased capability upgrades within the ongoing acquisition program to pace capability with rapidly evolving technologies and threats to ensure the Navy maintains persistent ISR dominance through the system's lifecycle, and to support the OPNAV N2/N6 Intelligence, Surveillance, Reconnaissance and Targeting transition plan. System upgrades will include Multi-Intelligence capabilities, Counter Electronic Attack upgrades, a more robust electronic support capability and continue improvements to baseline mission system payloads.

MQ-4C will play a significant role in the Sea Shield and FORCEnet pillars of Sea Power 21. In its Sea Shield role, the system will rely on its key attribute of persistence to provide the supported combatant command or fleet commander with unparalleled situational awareness of the maritime battle space as it develops and sustains the common operational tactical picture. The system will also serve as a Fleet response plan enabler, while acting as a trip wire for intelligence preparation of the environment. Additionally, Triton UAS will be a FORCEnet enabler and relay platform, directly connected to both the Global Information Grid and the Distributed Common Ground System-Navy information backbone.

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

	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title: Product Development	-	4.279	144.433	-	144.433
Articles:	-	-	-	-	-
Description: MQ-4C Triton UAS modernization effort for incorporation of phased capability upgrades. The prime contractor is responsible for integration of upgrades into the Triton UAS including associated					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
management, engineering and logistics activities. Capability upgrades will also include development of system payloads directly with original equipment manufacturers.						
FY 2014 Accomplishments: N/A						
FY 2015 Plans: Initiate development of phased capability upgrades, including Multi-Intelligence capabilities in support of the OPNAV N2/N6 Intelligence, Surveillance, Reconnaissance and Targeting transition plan.						
FY 2016 Base Plans: Funding increases from FY15 to FY16 to continue development of phased capability upgrades, including Multi-Intelligence capabilities in support of the OPNAV N2/N6 Intelligence, Surveillance, Reconnaissance and Targeting transition plan. Funding includes acquisition of development assets for capability upgrades including electro-optical/infra-red, Signals Intelligence (SIGINT) High Band and SIGINT Low Band systems.						
FY 2016 OCO Plans: N/A						
Title: ILS, Support, Studies & Analysis		-	0.400	1.608	-	1.608
Articles:		-	-	-	-	-
Description: Integrated Logistics Support, Studies and Analysis.						
FY 2014 Accomplishments: N/A						
FY 2015 Plans: Integrated logistics support, technical engineering services, sensor risk reduction, logistics supportability analyses and environmental planning, modeling and simulation, development of manpower and basing assessments, and development of technical data to support fielding of the MQ-4C Triton Unmanned Aircraft System (UAS) capabilities.						
FY 2016 Base Plans: Integrated logistics support, technical engineering services, sensor risk reduction, logistics supportability analyses and environmental planning, modeling and simulation, development of manpower and basing assessments, and development of technical data to support fielding of the MQ-4C Triton UAS capabilities.						
FY 2016 OCO Plans:						

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
N/A						
Title: Test & Evaluation (T&E)		-	-	3.800	-	3.800
Articles:		-	-	-	-	-
Description: T&E efforts.						
FY 2014 Accomplishments: N/A						
FY 2015 Plans: N/A						
FY 2016 Base Plans: Begin Developmental Testing and Operational Testing support activities to allow test and fielding of the MQ-4C Triton Unmanned Air System phased capability upgrades in accordance with the program schedule.						
FY 2016 OCO Plans: N/A						
Title: Program Management (PM)		-	0.321	1.013	-	1.013
Articles:		-	-	-	-	-
Description: PM support and travel.						
FY 2014 Accomplishments: N/A						
FY 2015 Plans: PM support and travel, development of milestone and acquisition-related documentation, capability refinement and open systems architecture development, resource justification, affordability assessments and cost analyses, risk reduction and risk management, system integration and interoperability planning, technology maturity reviews, program protection planning, corrosion prevention planning, and joint and international cooperation efforts.						
FY 2016 Base Plans: Continue the following: PM support and travel, development of milestone and acquisition-related documentation, capability refinement and open systems architecture development, resource justification, affordability assessments and cost analyses, risk reduction and risk management, system integration and interoperability						

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Appropriation/Budget Activity 1319 / 7				R-1 Program Element (Number/Name) PE 0305421N / RQ-4 Modernization				Project (Number/Name) 2939 / RQ-4 Modernization				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
planning, technology maturity reviews, program protection planning, corrosion prevention planning, and joint and international cooperation efforts.												
FY 2016 OCO Plans: N/A												
Accomplishments/Planned Programs Subtotals								-	5.000	150.854	-	150.854
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost	
• RDT&E/0305220N: RQ-4 UAV (MQ-4C Triton)	375.235	451.442	227.188	-	227.188	5.208	-	-	-	-	3,184.123	
• APN-4/044200: RQ-4 UAV (Triton UAV)	-	67.670	548.836	-	548.836	582.360	635.984	704.135	718.463	7,096.336	10,353.784	
• APN-6/044200: RQ-4 UAV (Triton UAV)	-	-	153.954	-	153.954	110.263	105.532	6.758	6.881	283.685	667.073	
• OMN/1D4D: Weapons Maintenance	-	-	-	-	-	5.738	30.153	32.886	35.338	Continuing	Continuing	
• OMN/1A1A: Mission and Other Flight Operations	-	-	-	-	-	-	2.216	12.773	44.119	Continuing	Continuing	
• MILCON/0212176N: Facilities New Footprint - Fleet Ops	17.469	-	8.296	-	8.296	71.091	-	-	-	-	129.001	
• MILCON/0712876N: Facilities New Footprint - Main and Prod	-	-	40.641	-	40.641	-	-	-	-	-	40.641	
• MILCON/0815976N: Facilities New Footprint - Training	38.031	-	-	-	-	-	-	28.118	-	-	82.707	
• MILCON/0203176N: Facilities Restoration and Mod	-	-	-	-	-	-	-	-	-	-	20.753	
• MILCON/0816376N: Facilities New Footprint - T&E	-	-	-	-	-	-	-	-	-	-	33.034	
• MILCON/0805976N: Facilities Restoration and Mod-Training	-	-	2.974	-	2.974	-	-	-	-	-	2.974	
Remarks												

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D. Acquisition Strategy

The MQ-4C Triton acquisition approach encompasses delivery of detection, tracking, imaging and data dissemination capabilities at Initial Operational Capability (IOC) with activities to enhance sensor and system performance via phased capability upgrades for post IOC delivery as part of the Triton acquisition program. This approach of phased capability upgrades within the acquisition program enables MQ-4C to pace capability with rapidly evolving technologies and threats to ensure the Navy maintains persistent Intelligence, Surveillance and Reconnaissance dominance through the system's lifecycle.

The MQ-4C Triton program office is pursuing joint efficiency with the Air Force on the Global Hawk Unmanned Aircraft System (UAS). However, the integration of the Triton UAS into the Maritime Patrol Reconnaissance Force and the unique maritime sensors employed dictate a Navy-led acquisition program focused on joint efficiencies, where possible.

E. Performance Metrics

Successfully achieve Milestone C, Integrated Test, Operational Evaluation and IOC.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy												Date: February 2015			
Appropriation/Budget Activity 1319 / 7						R-1 Program Element (Number/Name) PE 0305421N / RQ-4 Modernization				Project (Number/Name) 2939 / RQ-4 Modernization					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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/CPFF	Northrop Grumman : Rancho Bernardo, CA	0.000	-		3.379	Apr 2015	105.694	Nov 2015	-		105.694	302.994	412.067	412.067
Systems Engineering	Various	Various : Various	0.000	-		-		2.000	Nov 2015	-		2.000	7.555	9.555	-
Systems Engineering	WR	NAWC-AD : Patuxent River, MD	0.000	-		0.900	Jan 2015	9.739	Nov 2015	-		9.739	31.473	42.112	-
Primary Hardware Development	SS/FFP	Raytheon : McKinney, TX	0.000	-		-		10.000	Feb 2016	-		10.000	-	10.000	10.000
Primary Hardware Development	C/CPFF	Sierra Nevada Corporation : Beaver Creek, OH	0.000	-		-		9.500	Jan 2016	-		9.500	-	9.500	9.500
Primary Hardware Development	C/CPFF	Boeing Argon ST : Fairfax, VA	0.000	-		-		7.500	Nov 2015	-		7.500	-	7.500	7.500
Subtotal			0.000	-		4.279		144.433		-		144.433	342.022	490.734	-
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Development Support	Various	Various : Various	0.000	-		-		0.508	Nov 2015	-		0.508	1.300	1.808	-
Integrated Logistics Support	Various	Various : Various	0.000	-		-		-		-		-	3.710	3.710	-
Integrated Logistics Support	WR	NAWC-AD : Patuxent River, MD	0.000	-		0.400	Jan 2015	1.100	Nov 2015	-		1.100	4.807	6.307	-
Subtotal			0.000	-		0.400		1.608		-		1.608	9.817	11.825	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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	Various	Various : Various	0.000	-		-		1.150	Nov 2015	-		1.150	5.428	6.578	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy												Date: February 2015			
Appropriation/Budget Activity 1319 / 7						R-1 Program Element (Number/Name) PE 0305421N / RQ-4 Modernization				Project (Number/Name) 2939 / RQ-4 Modernization					
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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	NAWC-AD : Patuxent River, MD	0.000	-		-		1.400	Nov 2015	-		1.400	35.589	36.989	-
Operational Test & Evaluation	Various	Various : Various	0.000	-		-		0.250	Nov 2015	-		0.250	7.900	8.150	-
Developmental Test & Evaluation	MIPR	DITCO : Various	0.000	-		-		1.000	Nov 2015	-		1.000	5.398	6.398	-
Subtotal			0.000	-		-		3.800		-		3.800	54.315	58.115	-
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Program Management	Various	Various : Various	0.000	-		0.100	Jan 2015	0.163	Nov 2015	-		0.163	2.285	2.548	-
Travel	Allot	Various : Various	0.000	-		0.025	Jan 2015	0.050	Nov 2015	-		0.050	Continuing	Continuing	Continuing
Program Management Support	C/CPFF	Ausley : Lexington Park, MD	0.000	-		0.196	Jan 2015	0.800	Nov 2015	-		0.800	2.851	3.847	3.847
Subtotal			0.000	-		0.321		1.013		-		1.013	-	-	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	-		5.000		150.854		-		150.854	-	-	-
Remarks															
MQ-4C Triton RDTE funding for modernization has been segregated into a new program element (from PE 0305220N to PE 0305421N) in order to satisfy Congressional direction for increased transparency. All Triton modernization funding was previously included in PE 0305220N PU 4020 MQ-4C Triton.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Navy

Date: February 2015

Appropriation/Budget Activity

1319 / 7

R-1 Program Element (Number/Name)

PE 0305421N / RQ-4 Modernization

Project (Number/Name)

2939 / RQ-4 Modernization

Proj 2939	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Acquisition Milestones									MS C ▲									FRP ◆	IOC ▲									
System Development																												
Test & Evaluation Activities																												
Production Milestones																												
Contracts																												
Deliveries																												

2016PB - 0305421N - 2939 MQ-4C Triton development activities are resourced by PE 0305220N and PE 0305421N.

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy			Date: February 2015
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305421N / RQ-4 Modernization	Project (Number/Name) 2939 / RQ-4 Modernization	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2939				
Acquisition Milestones: Milestone C	1	2016	1	2016
Acquisition Milestones: Full Rate Production	2	2018	2	2018
Acquisition Milestones: Initial Operational Capability	3	2018	3	2018
System Development: Phased Capability Upgrades - Multi-INT	2	2015	3	2020
System Development: System Development and Demonstration	1	2014	3	2020
Test & Evaluation Activities: Integrated Test (Combined/Developmental/Operational)	1	2014	2	2017
Test & Evaluation Activities: Follow-on Integrated Test	2	2018	4	2020
Test & Evaluation Activities: Operational Test Readiness Review	3	2017	3	2017
Test & Evaluation Activities: OPEVAL	4	2017	1	2018
Production Milestones: Contracts: Low Rate Initial Production 1 Contract Award	2	2016	2	2016
Production Milestones: Contracts: Low Rate Initial Production 2 Contract Award	2	2017	2	2017
Production Milestones: Contracts: Full Rate Production Lot 3 Contract Award	2	2018	2	2018
Production Milestones: Contracts: Full Rate Production Lot 4 Contract Award	2	2019	2	2019
Production Milestones: Contracts: Full Rate Production Lot 5 Contract Award	2	2020	2	2020
Production Milestones: Deliveries: System Demonstration Test Articles Delivery	1	2017	2	2017
Production Milestones: Deliveries: Low Rate Initial Production Lot 1 Delivery	2	2018	1	2019
Production Milestones: Deliveries: Low Rate Initial Production Lot 2 Delivery	2	2019	1	2020
Production Milestones: Deliveries: Full Rate Production Lot 3 Delivery	2	2020	4	2020