Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy

**Date:** February 2018

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

1319: Research, Development, Test & Evaluation, Navy I BA 7: Operational

PE 0305421N I (U)RQ-4 Modernization

Systems Development

COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	149.892	144.477	229.404	219.894	-	219.894	136.526	98.684	80.594	72.113	0.000	1,131.584
2939: RQ-4 Modernization	149.892	144.477	229.404	219.894	-	219.894	136.526	98.684	80.594	72.113	0.000	1,131.584

**Program MDAP/MAIS Code:** 

Project MDAP/MAIS Code(s): 373

#### Note

Controls locked prior to updating the Cost to Complete value on the R-2. To reflect the correct funding profile, the CTC value should read 83.826 for a Total Cost of 1,215.410.

MQ-4C Triton RDTE funding for modernization was segregated into a new program element (from PE 0305220N to PE 0305421N) for increased transparency.

### 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 networked 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 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.

PE 0305421N: (U)RQ-4 Modernization

Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy

#### Appropriation/Budget Activity

1319: Research, Development, Test & Evaluation, Navy I BA 7: Operational Systems Development

R-1 Program Element (Number/Name)

PE 0305421N I (U)RQ-4 Modernization

The MQ-4C air vehicle, mission control system, specialized sensors, and communications suite will play a significant role in achieving the Navy's strategic vision for the 21st century. The Triton system as a persistence ISR enabler provides the supported combatant commander and fleet commander with unparalleled situational awareness of the maritime battle space to develop and sustain the common operational tactical picture. The system will also serve as a Fleet response plan enabler with a persistent, global force offering to provide critical trip wire information for intelligence preparation of the environment. Triton will connect to both the Global Information Grid and the Distributed Common Ground System-Navy information backbone to provide the Warfighter with unprecedented levels of battlespace awareness to synchronize actions necessary to maintain maritime Full Spectrum Superiority.

B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	<b>FY 2019 Base</b>	FY 2019 OCO	FY 2019 Total
Previous President's Budget	181.266	229.404	176.195	-	176.195
Current President's Budget	144.477	229.404	219.894	-	219.894
Total Adjustments	-36.789	0.000	43.699	-	43.699
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>	-	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-0.089	0.000			
<ul> <li>Program Adjustments</li> </ul>	0.000	0.000	45.518	-	45.518
Rate/Misc Adjustments	0.000	0.000	-1.819	-	-1.819
<ul> <li>Congressional Directed Reductions Adjustments</li> </ul>	-36.700	-	-	-	-

## **Change Summary Explanation**

The Triton program was revised to align key program events and funding (+\$45.7M) with the development of the Multi-INT capability upgrade in order to continue to support the Maritime Intelligence, Surveillance, Reconnaissance, and Targeting (MISR&T) Transition Plan.

The FY 2019 funding request was reduced by \$0.205M to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.

PE 0305421N: (U)RQ-4 Modernization

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Exhibit R-2A, RDT&E Project Ju	stification:	PB 2019 N	lavy							Date: Febr	uary 2018	
Appropriation/Budget Activity 1319 / 7					_	am Elemen 21N / (U)RQ	•	•	Project (N 2939 / RQ-		•	
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
2939: RQ-4 Modernization	149.892	144.477	229.404	219.894	-	219.894	136.526	98.684	80.594	72.113	0.000	1,131.584
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: 373

### 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 networked 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 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.

The MQ-4C air vehicle, mission control system, specialized sensors, and communications suite will play a significant role in achieving the Navy's strategic vision for the 21st century. The Triton system as a persistence ISR enabler provides the supported combatant commander and fleet commander with unparalleled situational awareness of the maritime battle space to develop and sustain the common operational tactical picture. The system will also serve as a Fleet response plan enabler with a persistent, global force offering to provide critical trip wire information for intelligence preparation of the environment. Triton will connect to both the Global Information Grid and the Distributed Common Ground System-Navy information backbone to provide the Warfighter with unprecedented levels of battlespace awareness to synchronize actions necessary to maintain maritime Full Spectrum Superiority.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Product Development	131.531	216.479	202.555	0.000	202.555
Articles:	-	-	-	-	-

PE 0305421N: (U)RQ-4 Modernization

<u> </u>	MCTW29ILIED				2015	
Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy			7	Date: Febr		
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/ PE 0305421N / (U)RQ-4 Moderni			umber/Nan -4 Moderniz		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities	in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
<b>Description:</b> MQ-4C Triton Unmanned Air System (UAS) modernization effocapability upgrades. The prime contractor is responsible for integration of up including associated management, engineering and logistics activities. Capadevelopment of system payloads directly with original equipment manufacture.	grades into the Triton UAS ibility upgrades will also include					
FY 2018 Plans: Funding increase from FY17 to FY18 supports higher levels of development of modernization capabilities. FY18 continues development of phased capabilitiest asset modification and software development, including Multi-Intelligence Intelligence, Surveillance, Reconnaissance and Targeting transition plan. Fur radar development, AMP development and integration of development assets electro-optical/infra-red, SIGINT High Band and SIGINT Low Band systems.	y upgrades as the program initiates e capabilities in support of the nding includes Sense and Avoid					
FY 2019 Base Plans: FY19 continues development of capability upgrades as the program initiates software development, including Multi-Intelligence capabilities in support of the Reconnaissance and Targeting transition plan. Funding includes Sense and development and integration of development assets for capability upgrades in SIGINT High Band and SIGINT Low Band systems.	ne Intelligence, Surveillance, Avoid radar development, AMP					
<b>FY 2019 OCO Plans:</b> N/A						
FY 2018 to FY 2019 Increase/Decrease Statement: Decrease of \$13.924M from FY18 to FY19 reflects the ramp down in develop INT sensor hardware.	oment efforts for Triton's GFE Multi-					
Title: ILS, Support, Studies & Analysis	Articles:	2.517 -	2.679	2.789	0.000	2.789
Description: Integrated Logistics Support, Studies and Analysis.						
FY 2018 Plans: Funding continues in FY18 to support the development and integration of log considerations for Triton's modernization upgrade. Efforts include integrated engineering services, sensor reliability and maintainability risk reduction, logis	logistics support, technical					

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Date: F	ebruary 2018
Program Element (Number/Name)Project (Number/0305421N I (U)RQ-4 Modernization2939 I RQ-4 Mode	•
<u>ch)</u> FY 2017 FY 2018 Base	
asing assessments, and ization capabilities.	
and product support cs support, technical upportability analyses and vasing assessments, and vization capabilities.	
7.718 7.543 12.7 <b>Articles:</b>	750 0.000 12.750 
abor to reduce risk in design in the necessary satellite ing of the MQ-4C Triton UAS	
abor to reduce risk in design in the necessary satellite ing of the MQ-4C Triton se from FY18 to FY19 in	

PE 0305421N: *(U)RQ-4 Modernization* Navy

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Exhibit R-2A, RDT&E Project Just	tification: PB	2019 Navy							Date: Febr	ruary 2018	
Appropriation/Budget Activity 1319 / 7						<b>ment (Numbe</b> I)RQ-4 Moderi			umber/Nar -4 Moderniz		
B. Accomplishments/Planned Pro	ograms (\$ in N	Millions, Art	icle Quantit	ies in Each)	1		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Increase of \$5.207M from FY18 to F	FY19 is due to	preparation	for the start	of IFC 4 gro	und and flig	ht test.					
Title: Program Management (PM)						Articles	2.711	2.703	1.800	0.000	1.800
Description: PM support and trave	el.										
FY 2018 Plans: Continue the following: PM support capability refinement and open syst assessments and cost analyses, ris planning, technology maturity review international cooperation efforts.	tems architectu sk reduction an	ıre developr d risk mana	ment, resoure gement, sys	ce justificatio tem integrati	n, affordabi on and inter	lity operability					
FY 2019 Base Plans: Continue the following: PM support capability refinement and open syst assessments and cost analyses, ris planning, technology maturity review international cooperation efforts.	tems architectu sk reduction an	ıre developr d risk mana	ment, resoure gement, sys	ce justificatio tem integrati	on, affordabi on and inter	lity operability					
<b>FY 2019 OCO Plans:</b> N/A											
FY 2018 to FY 2019 Increase/Deci Decrease of \$0.903 from FY18 to F			quired PM s	upport for red	quirements.						
			Accomplisi	nments/Plar	nned Progra	ams Subtotal	s 144.477	229.404	219.894	0.000	219.894
C. Other Program Funding Summ	nary (\$ in Milli	ons)									
			FY 2019	FY 2019	FY 2019					Cost To	
<u>Line Item</u> • RDT&E/0305220N: (U)MQ-4C Triton	<b>FY 2017</b> 113.606	<b>FY 2018</b> 84.115	<b>Base</b> 14.395	<u>000</u>	<u>Total</u> 14.395	<b>FY 2020</b> 11.796	<b>FY 2021</b> 11.417	<b>FY 2022</b> 14.094	FY 2023 14.381	0.000	Total Cos 3,537.149
APN/0442: MQ-4 Triton     APN/0605: Spares     and Repair Parts	499.894 95.851	579.392 56.915	627.265 37.403	-	627.265 37.403	571.971 36.420	605.997 6.430	604.330 0.000	758.923 0.000	5,975.539 0.000	10,797.45 336.97

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Exhibit R-2A, RDT&E Project Just	ification: PB	2019 Navy							Date: Fel	oruary 2018	
Appropriation/Budget Activity 1319 / 7					•	nent (Numb )RQ-4 Mode	•		Number/Na Q-4 Modern	,	
C. Other Program Funding Summa	ary (\$ in Milli	ons)		'							
_		-	FY 2019	FY 2019	FY 2019					<b>Cost To</b>	
<u>Line Item</u>	FY 2017	FY 2018	Base	OCO	<u>Total</u>	FY 2020	FY 2021	FY 2022	FY 2023	Complete	<b>Total Cost</b>
MILCON/0212176N: Facilities	30.475	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	88.385
New Footprint - Fleet Ops											
MILCON/0815976N: Facilities	41.380	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	79.411
New Footprint - Training											
<ul> <li>APN/0596: MQ-4 Series</li> </ul>	0.000	39.996	48.278	-	48.278	7.793	0.000	0.000	0.000	0.000	96.067
• OMN/1D4D:	0.000	11.310	16.519	-	16.519	24.003	37.795	46.332	47.315	Continuing	Continuing

0.000

0.000

55.809

0.000

#### Remarks

Navy

## **D. Acquisition Strategy**

Weapons Maintenance MILCON/0305220N:

Triton FOB 3rd Fleet

The MQ-4C Triton acquisition approach supports the Navy's Maritime Intelligence, Surveillance, Reconnaissance, and Targeting (MISR&T) Transition Plan by providing a stable and effective baseline early operational capability in FY18 to facilitate Fleet introduction and learning while continuing System Development and Demonstration engineering and integrated test on Signals Intelligence (SIGINT) and other upgrades to deliver a Multi-INT configuration at Initial Operational Capability (IOC). Phased capability upgrades will continue post IOC to enable the MQ-4C Triton to keep pace with rapidly evolving technologies and threats, and address correction of deficiencies and obsolescence issues to ensure the Navy maintains persistent Intelligence, Surveillance and Reconnaissance dominance through the system's lifecycle.

### **E. Performance Metrics**

Successfully achieve Integrated Test, Operational Evaluation and Initial Operation Capability.

0.000

0.000

0.000

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R-1 Line #264

0.000

0.000

55.809

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy

Date: February 2018

Appropriation/Budget ActivityR-1 Program Element (Number/Name)Project (Number/Name)1319 / 7PE 0305421N / (U)RQ-4 Modernization2939 / RQ-4 Modernization

Product Developme	nt (\$ in M	illions)		FY 2	2017	FY 2	2018	FY 2 Ba	2019 ise	FY 2	2019 CO	FY 2019 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	87.960	79.169	Nov 2016	146.472	Nov 2017	149.631	Nov 2018	-		149.631	331.154	794.386	796.786
Systems Engineering	Various	Various : Various	9.956	14.273	Nov 2016	8.000	Nov 2017	7.750	Nov 2018	-		7.750	1.000	40.979	-
Systems Engineering	WR	NAWC-AD : Patuxent River, MD	20.088	12.000	Nov 2016	23.529	Nov 2017	22.391	Nov 2018	-		22.391	49.716	127.724	-
Primary Hardware Development	SS/FFP	Raytheon : McKinney, TX	6.979	0.000	Nov 2016	0.000	Nov 2017	0.000	Nov 2018	-		0.000	0.000	6.979	6.979
Primary Hardware Development	C/CPFF	Sierra Nevada Corporation : Beaver Creek, OH	0.000	6.500	Jul 2017	6.500	Jan 2018	0.000		-		0.000	0.000	13.000	13.000
Primary Hardware Development	C/CPFF	Boeing Argon ST : Fairfax, VA	5.128	0.000	Nov 2016	0.000		0.000		-		0.000	0.000	5.128	5.128
Primary Hardware Development	C/CPFF	Ticom Geomatics : Austin, TX	0.000	5.000	Jul 2017	6.281	Jan 2018	6.800	Jan 2019	-		6.800	21.000	39.081	39.281
Primary Hardware Development	WR	NSWC-Crane : Crane, Indiana	10.203	11.027	Nov 2016	14.250	Nov 2017	0.050	Nov 2018	-		0.050	0.150	35.680	-
Primary Hardware Development	C/CPFF	L-3 Communication Systems : Salt Lake City, UT	0.000	0.000		7.757	Jan 2018	12.243	Jan 2019	-		12.243	0.000	20.000	20.000
Systems Engineering	C/CPFF	Mitre : Mclean, VA	1.118	1.952	Nov 2016	1.990	Nov 2017	1.990	Nov 2018	-		1.990	4.000	11.050	11.050
Systems Engineering	C/CPFF	MIT-Lincoln Labs : Lexington, MA	2.456	1.610	Nov 2016	1.700	Nov 2017	1.700	Nov 2018	-		1.700	3.000	10.466	10.466
		Subtotal	143.888	131.531		216.479		202.555		-		202.555	410.020	1,104.473	N/A

#### Remarks

The Product Development budget resources Northrop Grumman for Multi-INT integration design efforts, Raytheon for an Electro-Optical/Infrared (EO/IR) upgrade contract, Sierra Nevada Corporation for high band sensor kits, Boeing Argon for low band sensor kits, Ticom Geomatics for networking, L-3 Communication Systems for High Gain Common Data Link, NSWC-Crane for Airborne Mission Processor design and MITRE/MIT-LL for Airspace Integration efforts.

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2019 Navy	/								Date:	February	2018	
Appropriation/Budge 1319 / 7	et Activity	1							umber/Na Moderniza		_	(Number	r/ <b>Name)</b> ernization		
Support (\$ in Million	s)			FY 2	2017	FY :	2018	FY 2	2019 ise		2019 CO	FY 2019 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	1.048	0.518	Nov 2016	0.529	Nov 2017	0.539	Nov 2018	-		0.539	1.550	4.184	-
Integrated Logistics Support	Various	Various : Various	0.650	0.675	Nov 2016	0.800	Nov 2017	0.873	Nov 2018	-		0.873	3.299	6.297	-
Integrated Logistics Support	WR	NAWC-AD : Patuxent River, MD	1.069	1.324	Nov 2016	1.350	Nov 2017	1.377	Nov 2018	-		1.377	4.337	9.457	-
		Subtotal	2.767	2.517		2.679		2.789		-		2.789	9.186	19.938	N//
Test and Evaluation	(\$ in Milli	ons)		FY 2	2017	FY :	2018	FY 2	2019 ise		2019 CO	FY 2019 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	0.650	0.611	Nov 2016	0.676	Nov 2017	0.690	Nov 2018	-		0.690	3.661	6.288	-
Developmental Test & Evaluation	WR	NAWC-AD : Patuxent River, MD	0.446	6.676	Nov 2016	5.857	Nov 2017	10.560	Nov 2018	-		10.560	35.348	58.887	-
Operational Test & Evaluation	Various	Various : Various	0.250	0.250	Nov 2016	0.510	Nov 2017	0.500	Nov 2018	-		0.500	7.200	8.710	-
Developmental Test & Evaluation (SATCOMM)	MIPR	DITCO : Various	0.000	0.181	Nov 2016	0.500	Nov 2017	1.000	Nov 2018	-		1.000	5.000	6.681	-
		Subtotal	1.346	7.718		7.543		12.750		-		12.750	51.209	80.566	N/A
Management Servic	es (\$ in M	lillions)		FY 2	2017	FY 2	2018	FY 2	2019 ise		2019 CO	FY 2019 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	0.330	0.166	Nov 2016	0.170	Nov 2017	0.173	Nov 2018	-		0.173	0.896	1.735	-
Travel	Allot	Various : Various	0.061	0.045	Nov 2016	0.033	Nov 2017	0.034	Nov 2018	-		0.034	0.182	0.355	-
Program Management Support	C/CPFF	Ausley : Lexington Park, MD	1.500	2.500	Nov 2016	2.500	Nov 2017	1.593	Nov 2018	-		1.593	4.778	12.871	12.87
	<u> </u>	Subtotal	1.891	2.711		2.703		1.800		_		1.800	5.856	14.961	N/A

PE 0305421N: *(U)RQ-4 Modernization* Navy

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2	2019 Navy	/								Date:	February	2018	
Appropriation/Budget Activity 1319 / 7					_	Element (N ' (U)RQ-4 I		•	Project ( 2939 / R	•	,	1	
	Prior Years	FY 2	2017	FY 2	2018	1	2019 ase	FY 2		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	149.892	144.477		229.404		219.894	-			219.894	476.271	1,219.938	N/A

Remarks

PE 0305421N: *(U)RQ-4 Modernization* Navy

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xhibit R-4, RDT&E Schedule Pro	ofile	: Pl	B 20	19 I	Navy															Dat	e: F	ebr	uary	2018
appropriation/Budget Activity 319 / 7														(Number 4 Modern					ct (N RQ-					1
Proj 2939			2017			FY 2018				2019			FY 2			FY 2				Y 202				2023
Acquisition Milestones	10	2Q	3Q	40	1Q	Baseline EOC	3Q	4Q 1	Q 2Q	3Q	40 1	Q 2Q	3Q	Multi-INT EOC	1Q	IOC	FRP	4Q	1Q 20	2 30	2 40	10	20	3Q   40
System Development						Systems [	Demo	nstra	ition :	and D	evel	opme	nt											
	Ĺ					Phased (	Capal	bility	Upgr	ades	- Mu	lti-IN	Т				F	utu	re Ca	apabi	ility I	Dev	elop	ment
Test & Evaluation Activities						Integrat	ed Te	est C	T/DT	/OT		1		]		ti-INT Γ&Ε		Fut	ture (	Capa tegra				-on
						Operational Test Event ▼																		
Production Milestones  Contracts	6		LRIP Lot 2 CA APN				LRIP Lot 3 CA APN			LRIP Lot 4 CA APN			LRIP Lot 5 CA APN				FRP Lot 6 CA APN			FRI Lo 7 CA AP	t		$  \  $	FRP Lot 8 CA APN
Deliveries	s				SDTA RDTEN Qty 2			IP Lo N Qt			P Lo N Qt						P Lot N Qty			LRIF APN				LRIP Lot 5 APN Qty 3
2019PB - 0305421N - 2939 MQ-4C Trit	on de	evel	Ionme	nt a	ctivities a	re resourced	bv PF	0305	52201	l and F	PE 03	0542	1N		. '									

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy		Date: February 2018
11	, ,	Project (Number/Name)
1319 / 7	PE 0305421N I (U)RQ-4 Modernization	2939 I RQ-4 Modernization

# Schedule Details

	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year
Proj 2939	,			
Acquisition Milestones: Full Rate Production	3	2021	3	2021
Acquisition Milestones: Initial Operational Capability	2	2021	2	2021
Acquisition Milestones: Multi-INT Early Operational Capability	4	2020	4	2020
Acquisition Milestones: Baseline Early Operational Capability	2	2018	2	2018
System Development: System Development and Demonstration	1	2017	2	2021
System Development: Phased Capability Upgrades - Multi-INT	1	2017	2	2021
System Development: Future Capability Development	3	2021	4	2023
Test & Evaluation Activities: Integrated Test (Combined/Developmental/Operational)	1	2017	4	2020
Test & Evaluation Activities: Multi-INT Initial Operational Test and Evaluation	1	2021	2	2021
Test & Evaluation Activities: Future Capabilities Follow-on Integrated Test	3	2021	4	2023
Test & Evaluation Activities: Operational Test Event	2	2018	2	2018
Production Milestones: Contracts: Low Rate Initial Production Lot 2 Contract Award	3	2017	3	2017
Production Milestones: Contracts: Low Rate Initial Production Lot 3 Contract Award	3	2018	3	2018
Production Milestones: Contracts: Low Rate Initial Production Lot 4 Contract Award	3	2019	3	2019
Production Milestones: Contracts: Low Rate Initial Production Lot 5 Contract Award	3	2020	3	2020
Production Milestones: Contracts: Full Rate Production Lot 6 Contract Award	3	2021	3	2021
Production Milestones: Contracts: Full Rate Production Lot 7 Contract Award	3	2022	3	2022
Production Milestones: Contracts: Full Rate Production Lot 8 Contract Award	3	2023	3	2023
Production Milestones: Deliveries: System Demonstration Test Articles Delivery	1	2018	1	2018
Production Milestones: Deliveries: Low Rate Initial Production Lot 1 Delivery	3	2018	2	2019
Production Milestones: Deliveries: Low Rate Initial Production Lot 2 Delivery	3	2019	2	2020
Production Milestones: Deliveries: Low Rate Initial Production Lot 3 Delivery	2	2021	4	2021

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)	
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	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year
Production Milestones: Deliveries: Low Rate Initial Production Lot 4 Delivery	2	2022	1	2023
Production Milestones: Deliveries: Low Rate Initial Production Lot 5 Delivery	3	2023	4	2023

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