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

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

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

PE 0305242M I (U)Unmanned Aerial Systems (UAS) Payloads

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	9.246	11.181	18.578	5.956	-	5.956	5.955	8.631	5.952	6.097	Continuing	Continuing
2052: RQ-21 Payload Development	0.000	0.000	0.000	5.956	-	5.956	5.955	8.631	5.952	6.097	Continuing	Continuing
5501: Signals Intelligence (SIGINT)	3.564	6.062	5.618	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	15.244
5502: Synthetic Aperture Radar/ Motion Target Indicator (SAR/ MTI)	5.682	5.119	5.860	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	16.661
5504: Wide Area Persistent Surveillance (TNWAS)	0.000	0.000	7.100	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	7.100

#### A. Mission Description and Budget Item Justification

This is not a new start. In FY19 this effort consolidates PU's 5501, 5502, and 5504 into PU 2052.

The Unmanned Aerial Systems (UAS) Payloads integration program will alleviate Marine Corps Intelligence, Surveillance and Reconnaissance (ISR) capability gaps caused by rapidly changing missions, threats and technologies. It will provide responsive capability to integrate and support rapid fielding of ISR payloads for all UAS within the Marine Corps. Sensor payloads will increase the effectiveness and versatility of the Marine Corps UAS currently planned to have Electro-Optic(EO) / Infrared (IR) collection, communications relay, and automatic identification capabilities. Upgrades include, but are not limited to, Signals Intelligence (SIGINT)/ Electronic Warfare Support (ES), Synthetic Aperture Radar (SAR) / Moving Target Indicator (MTI), Wide Area and Hyperspectral Imagery collection.

These payloads provide the Marine Expeditionary Unit (MEU) organic capabilities that facilitate the six functions of Marine Corps Aviation and the Marine Corps Intelligence Surveillance, and Reconnaissance Enterprise across the range of military operations.

The payload development process will follow a Hybrid Acquisition Model of Incremental/Spiral approach while leveraging work conducted by various government laboratories such as the Office of Naval Research (ONR), Defense Advanced Research Projects Agency (DARPA), Air Force Research Lab (AFRL), Joint Improvised Threat Defeat Agency (JIDA), the National Security Agency (NSA), and the National Geospatial Agency (NGA). All payloads will follow similar acquisition paths but on independent time schedules. These acquisition paths will be defined by three (3) phases, each marked by a decision gate. Phase I establishes the preliminary integration design concept and conduct of technology demonstration with validation of a Technology Readiness Level (TRL) 5/6 as the decision gate for Phase II. Phase II establishes full payload-to-Unmanned Aircraft System (UAS) integration during which time all necessary program management, engineering, fabrication, test, and evaluations activities are conducted to achieve Test Article Fabrication, System Test and Evaluation, Integrated Logistics Support (ILS) and Training Concept development, and Data Management and Documentation. Validation of funding, derived requirements, project risks, cost and schedule estimates, contracting strategy

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 Systems Development

PE 0305242M I (U)Unmanned Aerial Systems (UAS) Payloads

and achievement of TRL 7 or higher constitute the decision gate for Phase III. Phase III is program of record transition which supports a production decision based on the exit criteria from Phase II.

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	11.181	18.578	10.029	-	10.029
Current President's Budget	11.181	18.578	5.956	-	5.956
Total Adjustments	0.000	0.000	-4.073	-	-4.073
<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	-	-			
Program Adjustments	0.000	0.000	-10.029	-	-10.029
Rate/Misc Adjustments	0.000	0.000	5.956	-	5.956

## **Change Summary Explanation**

In FY19 this effort consolidates PU's 5501, 5502, and 5504 into PU 2052.

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy												
Appropriation/Budget Activity 1319 / 7		PE 030524		<b>t (Number/</b> manned Ae ads	umber/Name) -21 Payload 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
2052: RQ-21 Payload Development	0.000	0.000	0.000	5.956	-	5.956	5.955	8.631	5.952	6.097	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

#### A. Mission Description and Budget Item Justification

In FY19 this effort will transition from PE 0305242M/PU 5501, 5502, 5504 to PE 0305242M/PU 2052 (Unmanned Aerial Systems (UAS) Payloads/RQ-21 Payload Development).

The UAS Payloads program will develop and integrate a Signals Intelligence (SIGINT)/ Electronic Warfare Support (ES) payloads for Marine Corps small tactical UASs. SIGINT/ES payloads will fill current capability gaps for the Marine Corps Intelligence, Surveillance and Reconnaissance (ISR) mission and is required as part of the Marine Corps mission to

locate and target adversary Signals of Interest (SOI). The SIGINT/ES payload will leverage payloads previously developed by other Services and/or DoD laboratories to reduce cost and minimize schedule. The payload currently under development is Spectral Bat. Future SIGINT payloads include the Tactical Electro-optical/Infrared (EO/ IR) SIGINT for integrated Targeting (TEISIT). Test articles required in order to properly conduct testing requirements in order to field products on schedule to the fleet.

The UAS Payloads program will develop and integrate Synthetic Aperture Radar (SAR) with Moving Target Indicator (MTI) for Marine Corps small tactical UASs. This capability fills

current capability gaps for the Marine Corps Intelligence, Surveillance and Reconnaissance (ISR) mission and will allow Marine Corps ISR assets to locate and track ground targets that cannot effectively be located or tracked with the current ground based or EO/IR airborne sensor technology. The ability to locate and track moving ground targets from small tactical UAS is an essential capability that facilitates the six functions of Marine Corps Aviation and the Marine Corps Intelligence Surveillance, and Reconnaissance Enterprise across the range of military operations. SAR/MTI payloads will leverage payloads previously developed by other Services and/or DoD laboratories to reduce cost and minimize schedule.

The UAS Payloads program will develop and integrate Wide Area Persistent Surveillance (WAS) payloads for Marine Corps small tactical UASs. This capability fills current capability

gaps for the Marine Corps Intelligence, Surveillance and Reconnaissance (ISR) mission and will allow Marine Corps ISR assets the ability to improve battlefield awareness, improve

the capability to assure access and hold at risk, and enable power projection in environments that are not currently accessible is an essential capability that facilitates the six functions of

Marine Corps Aviation and the Marine Corps Intelligence Surveillance, and Reconnaissance Enterprise across the range of military operations. The current payload in development is the

Tactical Nighttime Wide Area Surveillance (TNWAS) payload. Future WAS payloads include the Spectral and Reconnaissance Imagery for Tactical Exploitation (SPRITE) payload.

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy			Date: Febr	uary 2018	
Appropriation/Budget Activity 1319 / 7  R-1 Program Element (No PE 0305242M / (U)Unman Systems (UAS) Payloads	ned Aerial	2052 I RQ	·	ne) Developme	ent
The WAS payloads will leverage payloads previously developed by other Services and/or DoD laboratorie	s to reduce cost a	ind minimize	schedule.		
Test articles required in order to properly conduct testing requirements in order to field products on schedu	le to the fleet.				
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	0.000	0.000	4.512	0.000	4.512
Aı	ticles: -	-	-	-	-
<b>FY 2018 Plans:</b> N/A					
FY 2019 Base Plans: -Initiate a Field User Evaluation of the Spectral Bat V4 payloadContinue development of a Tactical EO/IR SIGINT Integrated for Targeting (TEISIT) payload systemContinue Government Engineering Technical Support, other Government Support, Contract Support Serv Program Management Support, and program related travel in support of the Tactical EO/IR SIGINT Integrator Targeting (TEISIT) payload systemContinue development of Wide Area Surveillance software.					
FY 2019 OCO Plans: N/A					
FY 2018 to FY 2019 Increase/Decrease Statement: The FY2019 funding request was increased by \$4.512 million to account for the re-alignment of funds from 5501, 5502, and 5504 to PU 2052.	PU's				
Title: Support	0.000	0.000	0.846	0.000	0.846
A	ticles: -	-	-	-	-
<b>FY 2018 Plans:</b> N/A					
FY 2019 Base Plans: -Continue Government Engineering Technical Support, other Government Support, Contract Support Serv Program Management Support, and program related travel in support of the Tactical EO/IR SIGINT Integrator Targeting (TEISIT) payload system.					

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PE 0305242M: *(U)Unmanned Aerial Systems (UAS) Payload...*Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy				Date: Febr	uary 2018			
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/ PE 0305242M / (U)Unmanned Ae Systems (UAS) Payloads			Number/Name) Q-21 Payload Development				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in	n Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total		
<ul> <li>Complete Integrated Logistics Support (ILS), training concept development an documentation.</li> </ul>	d data management/	-						
FY 2019 OCO Plans: N/A								
FY 2018 to FY 2019 Increase/Decrease Statement: The FY2019 funding request was increased by \$0.846 million to account for the 5501, 5502, and 5504 to PU 2052.	e re-alignment of funds from PU's							
Title: Management Services	Articles:	0.000	0.000	0.303	0.000	0.303		
<b>FY 2018 Plans:</b> N/A								
FY 2019 Base Plans: -Continue development of a Tactical EO/IR SIGINT Integrated for Targeting (Te-Document Field User Evaluation (FUE) reports.	EISIT) payload system.							
<b>FY 2019 OCO Plans:</b> N/A								
FY 2018 to FY 2019 Increase/Decrease Statement: The FY2019 funding request was increased by \$0.303 million to account for the 5501, 5502, and 5504 to PU 2052.	e re-alignment of funds from PU's							
Title: Test and Evaluation	Articles:	0.000	0.000	0.295 -	0.000	0.295		
<b>FY 2018 Plans:</b> N/A								
FY 2019 Base Plans: Continue developmental testing								
<b>FY 2019 OCO Plans:</b> N/A								
FY 2018 to FY 2019 Increase/Decrease Statement:								

PE 0305242M: (U)Unmanned Aerial Systems (UAS) Payload...

Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
1319 / 7	PE 0305242M I (U)Unmanned Aerial	2052 I RQ-21 Payload Development
	Systems (UAS) Payloads	

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
The FY2019 funding request was increased by \$0.295 million to account for the re-alignment of funds from PU's 5501, 5502, and 5504 to PU 2052.					
Accomplishments/Planned Programs Subtotals	0.000	0.000	5.956	0.000	5.956

### C. Other Program Funding Summary (\$ in Millions)

			FY 2019	FY 2019	FY 2019					Cost To	
<u>Line Item</u>	FY 2017	FY 2018	<u>Base</u>	<u>000</u>	<u>Total</u>	FY 2020	FY 2021	FY 2022	FY 2023	<b>Complete</b>	<b>Total Cost</b>
<ul> <li>PMC/4787: UAS Payloads</li> </ul>	14.471	14.193	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	28.664

#### Remarks

#### **D. Acquisition Strategy**

The UAS Payloads program utilizes a Hybrid Acquisition Model of Incremental/Spiral approach for payload development that leverages upon work conducted by various government laboratories in order to field capability that meets threshold requirements, facilitates the six functions of Marine Corps Aviation and the Marine Corps Intelligence Surveillance, and Reconnaissance Enterprise across the range of military operations.

#### E. Performance Metrics

Validation of funding, derived requirements, project risks, cost and schedule estimates, contracting strategy and achievement of a TRL 7 or higher for Program of Record transition.

- A. Successful development of SIGINT payloads, integration into Marine Corps small tactical UAS, and completion of testing.
- B. Successful development of SAR/MTI payloads, integration into Marine Corps small tactical UAS, and completion of testing.
- C. Successful development of WAS payloads, integration into Marine Corps small tactical UAS, and completion of testing.

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2019 Navy	/								Date:	February	2018	
Appropriation/Budgo 1319 / 7	R-1 Program Element (Number/Name) PE 0305242M I (U)Unmanned Aerial Systems (UAS) Payloads  Project (Number/Name) 2052 I RQ-21 Payload Develo									/elopmen	t				
Product Developmen	nt (\$ in M	illions)		FY 2	2017	FY 2	018		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	Total Cost	Target Value o Contrac
Systems Engineering	MIPR	ACC-Natick : Natick, MA	0.000	0.000		0.000		4.017	Dec 2018	-		4.017	Continuing	Continuing	Continuir
Government Engineering	WR	NAWCAD : Patuxent River, MD	0.000	0.000		0.000		0.495	Dec 2018	-		0.495	Continuing	Continuing	Continuir
		Subtotal	0.000	0.000		0.000		4.512		-		4.512	Continuing	Continuing	N/A
Support (\$ in Million	s)			FY 2	2017	FY 2	018		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	Total Cost	Target Value of Contrac
Contractor Engineering Support	Various	Various : Various	0.000	0.000		0.000		0.846	Dec 2018	-		0.846	Continuing	Continuing	Continuir
		Subtotal	0.000	0.000		0.000		0.846		-		0.846	Continuing	Continuing	N/A
Test and Evaluation	(\$ in Milli	ons)		FY 2	2017	FY 2	018		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	Total Cost	Target Value of Contrac
Test and Evaluation	MIPR	NAWCAD : Patuxent River, MD	0.000	0.000		0.000		0.303	Dec 2018	-		0.303	0.000	0.303	-
		Subtotal	0.000	0.000		0.000		0.303		-		0.303	0.000	0.303	N/
Management Service	es (\$ in M	illions)		FY 2	2017	FY 2	018		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	Total Cost	Target Value of Contrac
Program Management Support	WR	NAWCAD : Patuxent River, MD	0.000	0.000		0.000		0.244	Feb 2019	-		0.244	0.000	0.244	-
Travel	Various	Various : Various	0.000	0.000		0.000		0.051	Oct 2018	-		0.051	0.000	0.051	-
		Subtotal	0.000	0.000		0.000		0.295		_		0.295	0.000	0.295	N/

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Development	<u> </u>
	Target Value o Contra
uing Continuing	
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xhibit R-4, RDT&E Schedule Propropriation/Budget Activity 319 / 7									F	PE	030524		Un	manned	<b>er/Name</b> Aerial	<del>)</del>		oject (N 152 / RQ		er/Na	ame)		
Proj 2052	FY	2017	F	Y 20	18	1 1Q	FY 2	019 3Q	  4Q 1	101	FY 2	2020 3Q	4Q	1Q	FY 2021	3Q	40	FY 1Q	2022 2Q	3014	F	Y 20	0 40
Signals Intelligence Payloads	110120	1 1	٣	20,3	<u> </u>	1		302	44	-	20	J 302	144	-14		34	402	-14	20	30   4	1	2013	
Milestones								TEISIT CDR		-	TEISIT TRR												
Product Development					     s	B Sft I	Updat	e		T				EISIT Co					Sft Upda				
				Ī	Ι							 	-						Sft	_			
Contractor Test and Evaluation				+	<del> </del>							TEISI <sup>-</sup> Exp Te				TEIS De Tes	v						
SAR/MTI		╁┼	$\dashv\dashv$	$\dashv$	-	<u> </u>			╏╌╏	$\dashv$		<del></del>				$\overline{}$	_				-	$\vdash$	$\dashv\dashv$
Product Development								A Sft dates			SA Sft I	Updates			SA S Update				SA S Upda				
Production	† †	$\dagger \dagger$		$\dashv$	-					SA	Lot 2		1										
Wide Area Surveillance	<u> </u>	<del>     </del>	ゴゴ	一	ヿ゙゠	i							1			$\neg$				<del>   </del>	$\dashv$	$\vdash$	┧─┤
Milestones						WAS PDR		WAS CDR •		5	WAS TRR SPRITE SRR	SPRITE PDR			SPRITE CDR			SPRITE TRR					
Product Development							i	/AS Adv	/ De	-   >v					WAS	Corre	ctio	n of Defic	ciencie	es	_i		
	Ιİ	İΪ	Ιİ	İ	İ					П		ĺ	İ						SP	RITE	Dev		Ιİ
Test and Evaluation							WAS Exp Test					WAS D Test		SPRITE Exp Test									
Production		╁┼	┤┤	$\dashv$	$\dashv$	<del>                                     </del>	<u> </u>		┧┼	$\dashv$		<del>                                     </del>	т			$\dashv$	$\dashv$			$\vdash$	$\dashv$	$\vdash$	$\dashv \dashv$

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy									
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305242M I (U)Unmanned Aerial Systems (UAS) Payloads  Project (Number/Name) 2052 I RQ-21 Payload Development								
	WAS Lot 1 Lot 2								
2019OSD - 0305242M - 2052									

PE 0305242M: *(U)Unmanned Aerial Systems (UAS) Payload...* Navy

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity 1319 / 7	,	, ,	umber/Name) -21 Payload Development

# Schedule Details

	Sta	End		
Events by Sub Project	Project Quarter Year Quarter		Year	
Proj 2052				
Milestones: TEISIT Critical Design Review	3	2019	3	2019
Milestones: TEISIT Test Readiness Review	2	2020	2	2020
Product Development: Spectral Bat Software Update	2	2018	3	2019
Product Development: TEISIT Correction of Deficiencies	4	2020	2	2021
Product Development: Payload Software Update 1	2	2022	3	2022
Product Development: Payload Sotfware Update 2	2	2022	3	2022
Contractor Test and Evaluation: TEISIT Experimental Test	3	2020	4	2020
Contractor Test and Evaluation: TEISIT Developmental Test	3	2021	4	2021
Product Development: SAR/MTI Software Update	2	2019	3	2019
Product Development: SAR/MTI Software Update 2	2	2020	3	2020
Product Development: SAR/MTI Software Update 3	2	2021	3	2021
Product Development: SAR/MTI Software Update 4	2	2022	3	2022
Production: SAR/MTI	3	2019	3	2020
Milestones: WAS Preliminary Design Review	1	2019	1	2019
Milestones: WAS Critical Design Review	3	2019	3	2019
Milestones: WAS Test Readiness Review	2	2020	2	2020
Milestones: SPRITE System Requirement Review	2	2020	2	2020
Milestones: SPRITE Preliminary Design Review	3	2020	3	2020
Milestones: SPRITE Critical Design Review	2	2021	2	2021
Milestones: SPRITE Test Readiness Review	1	2022	1	2022
Product Development: WAS Advanced Development	1	2019	2	2020

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy		'	Date: February 2018
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
1319 / 7	PE 0305242M I (U)Unmanned Aerial	2052 I RQ-	-21 Payload Development
	Systems (UAS) Payloads		

	St	tart	End		
Events by Sub Project	Quarter	Year	Quarter	Year	
Product Development: WAS Correction of Deficiencies	1	2021	2	2023	
Product Development: SPRITE Development	2	2022	2	2023	
Test and Evaluation: WAS Experimental Test	2	2019	2	2019	
Test and Evaluation: WAS Developmental Test	3	2020	4	2020	
Test and Evaluation: SPRITE Experimental Test	1	2021	1	2021	
Production: WAS Production Lot 1	2	2021	2	2021	
Production: WAS Production Lot 2	2	2022	2	2022	

Exhibit R-2A, RDT&E Project Ju	ustification	: PB 2019 N	lavy							Date: Febr	uary 2018	
Appropriation/Budget Activity 1319 / 7 PE 0305242M / (U)Unmanned Aerial Systems (UAS) Payloads  Project (Number/Name) 5501 / Signals Intelligence (Intelligence					,	(T)						
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
5501: Signals Intelligence (SIGINT)	3.564	6.062	5.618	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	15.244
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

## A. Mission Description and Budget Item Justification

In FY19 this effort will transition to PE 0305242M/PU 2052 (Unmanned Aerial Systems (UAS) Payloads/RQ-21 Payload Development).

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	<b>5</b> \( 004 <b>5</b>	<b>5</b> )/ 00/0	FY 2019	FY 2019	FY 2019
	FY 2017	FY 2018	Base	oco	Total
Title: Product Development	5.594	5.139	0.000	0.000	0.000
Articles:	5	-	-	-	-
FY 2018 Plans:					
- Initiate development of a Tactical EO/IR SIGINT Integrated for Targeting (TEISIT) payload system.					
FY 2019 Base Plans:					
N/A					
FY 2019 OCO Plans:					
N/A					
FY 2018 to FY 2019 Increase/Decrease Statement:					
The FY2019 funding request was decreased by \$5.139 million to account for the re-alignment of funds from PU					
5501 to PU 2052.					
Title: Support	0.375	0.384	0.000	0.000	0.000
Articles:	-	-	-	_	-
FY 2018 Plans:					
- Initiate development of TEISIT payload software.					
FY 2019 Base Plans:					
N/A					
FY 2019 OCO Plans:					
N/A					
FY 2018 to FY 2019 Increase/Decrease Statement:					
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Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy		Date: February 2018
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
1319 / 7	PE 0305242M I (U)Unmanned Aerial	5501 I Signals Intelligence (SIGINT)
	Systems (UAS) Payloads	

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
The FY2019 funding request was decreased by \$0.384 million to account for the re-alignment of funds from PU 5501 to PU 2052.					
Title: Management Services  Articles:	0.093	0.095	0.000	0.000	0.000
FY 2018 Plans: - Complete Integrated Logistics Support (ILS), Training Concept development and Data Management/ Documentation - Complete information assurance certification and accreditation					
FY 2019 Base Plans: N/A					
FY 2019 OCO Plans: N/A					
FY 2018 to FY 2019 Increase/Decrease Statement: The FY2019 funding request was decreased by \$0.095 million to account for the re-alignment of funds from PU 5501 to PU 2052.					
Accomplishments/Planned Programs Subtotals	6.062	5.618	0.000	0.000	0.000

## C. Other Program Funding Summary (\$ in Millions)

PE 0305242M: (U)Unmanned Aerial Systems (UAS) Payload...

			FY 2019	FY 2019	FY 2019					Cost To	
<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>
PMC/4787: UAS Payloads	2.971	14.193	0.000	_	0.000	0.000	0.000	0.000	0.000	0.000	17.164

#### Remarks

### D. Acquisition Strategy

In FY19 this effort will transition to PE 0305242M PU 2052 and will fall in line with respective acquisition strategy.

#### E. Performance Metrics

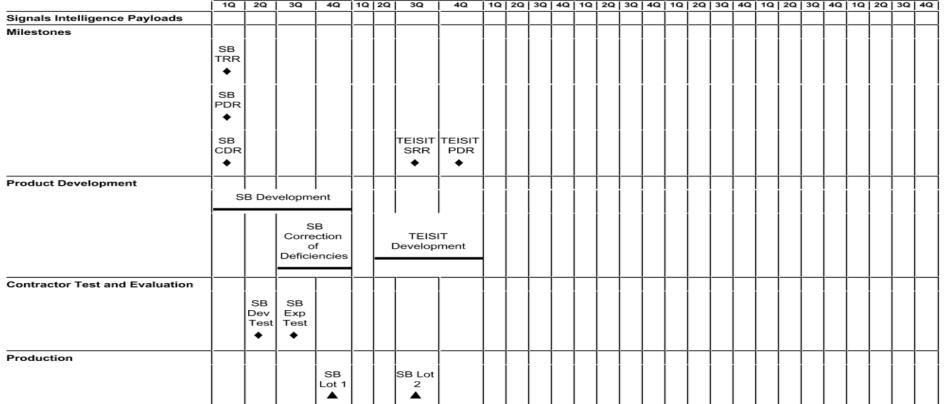
In FY19 this effort will transition to PE 0305242M/PU 2052 (Unmanned Aerial Systems (UAS) Payloads/RQ-21 Payload Development).

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	.019 Navy	/								Date:	February	2018	
Appropriation/Budge 1319 / 7	et Activity	1				PE 030	ogram Ele 5242M / ( as (UAS) F	U)Unmar				Project (Number/Name) 5501 / Signals Intelligence (SIGINT)			
Product Developme	nt (\$ in Mi	illions)		FY 2	2017	FY	2018	FY 2 Ba			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 o Contrac
Systems Engineering	MIPR	AFRL : Dayton, OH	1.500	5.155	Dec 2016	4.692	Feb 2018	0.000		-		0.000	0.000	11.347	-
Government Engineering	WR	NAWCAD : Patuxent River, MD	1.351	0.439	Oct 2016	0.447	Feb 2018	0.000		-		0.000	0.000	2.237	-
		Subtotal	2.851	5.594		5.139		0.000		-		0.000	0.000	13.584	N/
Support (\$ in Million	s)			FY 2	2017	FY 2	2018	FY 2 Ba			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	Total Cost	Target Value o Contrac
Contractor Engineering Support	MIPR	NAWCAD : Patuxent River, MD	0.619		Nov 2016		Feb 2018	0.000		-		0.000	0.000	1.378	
	-	Subtotal	0.619	0.375		0.384		0.000		-		0.000	0.000	1.378	N/
Management Service	es (\$ in M	illions)		FY 2	2017	FY 2	2018	FY 2 Ba			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	Total Cost	Target Value o Contrac
Program Management Support	MIPR	NAWCAD : Patuxent River, MD	0.064	0.065	Nov 2016	0.067	Feb 2018	0.000		-		0.000	0.000	0.196	-
Travel	Various	Various : Various	0.030	0.028	Nov 2016	0.028	Feb 2018	0.000		-		0.000	0.000	0.086	-
		Subtotal	0.094	0.093		0.095		0.000		-		0.000	0.000	0.282	N/
			Prior Years	FY 2	2017		2018	FY 2 Ba			2019 CO	FY 2019 Total	Cost To Complete	Total Cost	Target Value o Contrac
		Project Cost Totals	3.564	6.062		5.618		0.000		_		0.000	0.000	15.244	N/

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy Date: February 2018 Appropriation/Budget Activity R-1 Program Element (Number/Name) Project (Number/Name) PE 0305242M I (U)Unmanned Aerial 5501 I Signals Intelligence (SIGINT) 1319 / 7 Systems (UAS) Payloads Proj 5501 FY 2017 FY 2018 FY 2019 FY 2020 FY 2021 FY 2022 FY 2023 1Q 2Q | 3Q 1Q | 2Q | 3Q 1Q 2Q 3Q 4Q 1Q 2Q 3Q 4Q 1Q 2Q 3Q 4Q 4Q 1Q 2Q 3Q 4Q 1Q 2Q 3Q 4Q 1Q 2Q 3Q 4Q 1Q 2Q 3Q 4Q 4Q Signals Intelligence Payloads Milestones SB



2019DON - 0305242M - 5501

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy			Date: February 2018
'	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	- 3 (	umber/Name) nals Intelligence (SIGINT)

# Schedule Details

	Sta	art	End		
Events by Sub Project	Quarter	Year	Quarter	Year	
Proj 5501					
Milestones: Spectral Bat Test Readiness Review	1	2017	1	2017	
Milestones: Spectral Bat Preliminary Design Review	1	2017	1	2017	
Milestones: Spectral Bat Critical Design Review	1	2017	1	2017	
Milestones: TEISIT Systems Requirements Review	3	2018	3	2018	
Milestones: TEISIT Preliminary Design Review	4	2018	4	2018	
Product Development: Spectral Bat Prototype Design and Development	1	2017	4	2017	
Product Development: Spectral Bat Correction of Deficiencies	3	2017	4	2017	
Product Development: TEISIT Payload Development	2	2018	4	2018	
Contractor Test and Evaluation: Spectral Bat Experimental Test	3	2017	3	2017	
Contractor Test and Evaluation: Spectral Bat Developmental Test	2	2017	2	2017	
Production: Spectral Bat Production Lot 1	4	2017	4	2017	
Production: Spectral Bat Production Lot 2	3	2018	3	2018	

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2019 N	lavy							Date: Febr	uary 2018	
Appropriation/Budget Activity 1319 / 7		_	12M <i>I (U)Un</i>	<b>t (Number/</b> manned Ae ads	,	Project (Number/Name) 5502 I Synthetic Aperture Radar/Motion Target Indicator (SAR/MTI)						
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
5502: Synthetic Aperture Radar/ Motion Target Indicator (SAR/ MTI)	5.682	5.119	5.860	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	16.661
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

## A. Mission Description and Budget Item Justification

In FY19 this effort will transition to PE 0305242M/PU 2052 (Unmanned Aerial Systems (UAS) Payloads/RQ-21 Payload Development).

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	4.133	4.855	0.000	0.000	0.000
Articles:	2	2	-	-	-
FY 2018 Plans:					
- Complete integrated payload development.					
- Complete concurrent dual mode functionality of SAR and MTI.					
- Complete construction of dual mode functionality prototype payload (V3.1).					
FY 2019 Base Plans:					
N/A					
FY 2019 OCO Plans:					
N/A					
FY 2018 to FY 2019 Increase/Decrease Statement:					
The FY2019 funding request was decreased by \$4.855 million to account for the re-alignment of funds from PU					
5502 to PU 2052.					
Title: Support	0.590	0.604	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2018 Plans:					
- Initiate ILS, training concept development and data management/documentation.					
FY 2019 Base Plans:					
1 1 2013 Dase 1 Idilis.					

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy				Date: February 2018				
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/ PE 0305242M / (U)Unmanned Ae Systems (UAS) Payloads		5502 I Syn	Number/Name) Inthetic Aperture Radar/Motion Dicator (SAR/MTI)				
B. Accomplishments/Planned Programs (\$ in Millions, Articl	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total			
N/A								
<b>FY 2019 OCO Plans:</b> N/A								
FY 2018 to FY 2019 Increase/Decrease Statement: The FY2019 funding request was decreased by \$.604 million to 5502 to PU 2052.	account for the re-alignment of funds from PU							
Title: Management Services	Articles:	0.104	0.104	0.000	0.000	0.000		
FY 2018 Plans: - Complete engineering required for flight clearances Complete information assurance certification for accreditation.								
<b>FY 2019 Base Plans:</b> N/A								
FY 2019 OCO Plans: N/A								
FY 2018 to FY 2019 Increase/Decrease Statement: The FY2019 funding request was decreased by \$.104 million to 5502 to PU 2052.	account for the re-alignment of funds from PU							
Title: Test and Evaluation	Articles:	0.292	0.297	0.000	0.000	0.000		
FY 2018 Plans: - Initiate and complete developmental testing.								
<b>FY 2019 Base Plans:</b> N/A								
FY 2019 OCO Plans: N/A								
FY 2018 to FY 2019 Increase/Decrease Statement:								

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PE 0305242M: *(U)Unmanned Aerial Systems (UAS) Payload...* Navy

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy			Date: February 2018
1319 / 7	,	5502 / Syn	umber/Name) hthetic Aperture Radar/Motion icator (SAR/MTI)

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
The FY2019 funding request was decreased by \$.297 million to account for the re-alignment of funds from PU 5502 to PU 2052.					
Accomplishments/Planned Programs Subtotals	5.119	5.860	0.000	0.000	0.000

## C. Other Program Funding Summary (\$ in Millions)

			FY 2019	FY 2019	FY 2019					<b>Cost To</b>	
<u>Line Item</u>	FY 2017	FY 2018	<b>Base</b>	OCO	<u>Total</u>	FY 2020	FY 2021	FY 2022	FY 2023	Complete	<b>Total Cost</b>
<ul> <li>PMC/4787: UAS Payloads</li> </ul>	2.971	14.193	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	17.164

### Remarks

## D. Acquisition Strategy

In FY19 this effort will transition to PE 0305242M/PU 2052 and will fall in line with respective acquisition strategy.

#### E. Performance Metrics

In FY19 this effort will transition to PE 0305242M/PU 2052 (Unmanned Aerial Systems (UAS) Payloads/RQ-21 Payload Development).

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2019 Navy	/								Date:	February	2018	
Appropriation/Budgo 1319 / 7		PE 030	ogram Ele 5242M / ( as (UAS) F	U)Unmai			5502 / 3	•	r/ <b>Name)</b> Aperture F SAR/MTI)	Radar/Mo	otion				
Product Developmen	nt (\$ in M	illions)		FY	2017	FY :	2018	FY 2 Ba	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	Total Cost	Target Value of Contrac
Systems Engineering	MIPR	ACC-Natick : Natick, MA	5.015	3.479	Feb 2017	4.197	Feb 2018	0.000		-		0.000	0.000	12.691	-
Government Engineering	WR	NAWCAD : Patuxent River, MD	0.384	0.654	Nov 2016	0.658	Feb 2018	0.000		-		0.000	0.000	1.696	-
		Subtotal	5.399	4.133		4.855		0.000		-		0.000	0.000	14.387	N/
Support (\$ in Million	s)			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	Total Cost	Target Value of Contrac
Contractor Engineering Support	Various	Various : Various	0.268	0.590	Dec 2016	0.604	Feb 2018	0.000		-		0.000	0.000	1.462	-
		Subtotal	0.268	0.590		0.604		0.000		-		0.000	0.000	1.462	N/
Test and Evaluation	(\$ in Milli	ions)		FY:	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	Total Cost	Target Value of Contrac
Test and Evaluation	MIPR	NAWCAD : Patuxent River	0.000	0.292	Nov 2016	0.297	Feb 2018	0.000		-		0.000	0.000	0.589	-
	_	Subtotal	0.000	0.292		0.297		0.000		-		0.000	0.000	0.589	N/
Management Service	es (\$ in M	lillions)		FY 2	2017	FY :	2018	FY 2 Ba	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	Total Cost	Target Value of Contrac
Program Management Support	WR	NAWCAD : Patuxent River, MD	0.000	0.074	Feb 2017	0.074	Feb 2018	0.000		-		0.000	0.000	0.148	-
Travel	Various	Various : Various	0.015	0.030	Feb 2017	0.030	Feb 2018	0.000		-		0.000	0.000	0.075	-
		Subtotal	0.015	0.104		0.104		0.000		_		0.000	0.000	0.223	N/

Exhibit R-3, RDT&E Project Cost Analysis: PB 2	2019 Navy		·			·	Date:	February	2018	
Appropriation/Budget Activity 319 / 7	_	lement (Number/N (U)Unmanned Aer Payloads	Project (Number/Name) 5502 I Synthetic Aperture Radar/Motion Target Indicator (SAR/MTI)							
	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	5.682	5.119	5.860	0.000	-		0.000	0.000	16.661	N/

R-1 Line #263

xhibit R-4, RDT&E Schedule Proprietion/Budget Activity	ropriation/Budget Activity R-1 Program Element (Number/Name												me)	)	Pr	oie	ct (l	Num	ber	/Nar	ne)							
319 <i>/</i> 7									PE 0										'								Rad	ar/Mo
01077									Syste							,	Ciiai	'								/MTI		u1/1 <b>V</b> 10
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Proj 5502	1	FY 2	017			FY	2018			FY 2	2019	•	1	FY 2	2020			FY 2	2021			FY	2022	2	1	FY 2	2023	
	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
SAR/MTI																												
Milestones	i —	İ	İ			İ	ĺ	İ	╗	Ì—	Ì 🗆									ĺ		Ì	ĺ	İ	İ	Ì	İ	
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	SA	SA		SA CDR	SA TRR					l													l	l	l			
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Product Development		ļ							ļ	ļ	ļ											ļ	ļ	ļ	ļ			
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Contractor Test and Evaluation	!	ļ	! !				!	ļ	ļ	ļ	!		!!		!!				!!			ļ	ļ	ļ	ļ			
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				Test		Test				l													l	l	l			
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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305242M I (U)Unmanned Aerial Systems (UAS) Payloads	5502 / Syn	umber/Name) thetic Aperture Radar/Motion cator (SAR/MTI)

# Schedule Details

	Sta	art	Er	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Proj 5502				
Milestones: Split Aces System Requirements Review	1	2017	1	2017
Milestones: Split Aces Test Readiness Review	1	2018	1	2018
Milestones: Split Aces Preliminary Design Review	2	2017	2	2017
Milestones: Split Aces Critical Design Review	4	2017	4	2017
Product Development: Split Aces Component Development	2	2017	4	2017
Product Development: Split Aces Design/Prototype	1	2017	4	2017
Product Development: Split Aces Correction of Deficiencies	3	2018	4	2018
Contractor Test and Evaluation: Split Aces Experimental Test	4	2017	4	2017
Contractor Test and Evaluation: Split Aces Developmental Test	2	2018	2	2018
Production: Split Aces Production Lot 1	4	2018	4	2018

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2019 N	lavy							Date: Febr	uary 2018		
Appropriation/Budget Activity 1319 / 7					PE 030524		<b>t (Number/</b> manned Ae ads		Number/Name) de Area Persistent Surveillance				
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	
5504: Wide Area Persistent Surveillance (TNWAS)	0.000	0.000	7.100	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	7.100	
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-			

## A. Mission Description and Budget Item Justification

In FY19 this effort will transition to PE 0305242M/PU 2052 (Unmanned Aerial Systems (UAS) Payloads/RQ-21 Payload Development).

		FY 2019	FY 2019	FY 2019
FY 2017	FY 2018	Base	осо	Total
0.000	5.331	0.000	0.000	0.000
-	-	-	-	-
0.000	1.520	0.000	0.000	0.000
-	-	-	-	-
	-		FY 2017         FY 2018         Base           0.000         5.331         0.000           -         -         -	FY 2017         FY 2018         Base         OCO           0.000         5.331         0.000         0.000           -         -         -         -

Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
1319 / 7	PE 0305242M I (U)Unmanned Aerial	5504 I Wia	le Area Persistent Surveillance
	Systems (UAS) Payloads	(TNWAS)	

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
The FY2019 funding request was decreased by \$1.520 million to account for the re-alignment of funds from PU 5504 to PU 2052.					
Title: Management Services  Articles:	0.000	0.249	0.000	0.000	0.000
FY 2018 Plans: - Initiate and complete refinement and documentation of acquisition strategy Initiate mapping of requirements to specifications Initiate development of an integrated master schedule.					
FY 2019 Base Plans: N/A					
FY 2019 OCO Plans: N/A					
FY 2018 to FY 2019 Increase/Decrease Statement: The FY2019 funding request was decreased by \$0.249 million to account for the re-alignment of funds from PU 5504 to PU 2052.					
Accomplishments/Planned Programs Subtotals	0.000	7.100	0.000	0.000	0.000

## C. Other Program Funding Summary (\$ in Millions)

PE 0305242M: (U)Unmanned Aerial Systems (UAS) Payload...

			FY 2019	FY 2019	FY 2019					Cost To	
<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>
PMC/4787: UAS Payloads	2.971	14.193	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	17.164

#### Remarks

### D. Acquisition Strategy

In FY19 this effort will transition to PE 0305242M/PU 2052 and will fall in line with respective acquisition strategy.

#### E. Performance Metrics

In FY19 this effort will transition to PE 0305242M/PU 2052 (Unmanned Aerial Systems (UAS) Payloads/RQ-21 Payload Development).

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Date: February 2018 Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy Appropriation/Budget Activity R-1 Program Element (Number/Name) Project (Number/Name) 1319 / 7 PE 0305242M I (U)Unmanned Aerial 5504 I Wide Area Persistent Surveillance Systems (UAS) Payloads (TNWAS)

Product Developmen	nt (\$ in Mi	llions)		FY 2	2017	FY 2	2018	FY 2 Ba		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
Systems Engineering	TBD	TBD : TBD	0.000	0.000		5.331	Mar 2018	0.000		-		0.000	0.000	5.331	-
		Subtotal	0.000	0.000		5.331		0.000		-		0.000	0.000	5.331	N/A

#### Remarks

The 2018 effort for Tactical Nighttime Wide Area Persistent Surveillance (TNWAS) payload development leverages work started by the Office of Naval Research. The contractor performing the work is L3, however the government agency performing contracting activities is TBD.

Support (\$ in Millions	s)			FY 2	2017	FY 2	2018	FY 2 Ba		FY 2		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
Contractor Engineering Support	C/BA	Various : Various	0.000	0.000		1.520	Mar 2018	0.000		-		0.000	0.000	1.520	-
		Subtotal	0.000	0.000		1.520		0.000		-		0.000	0.000	1.520	N/A

Management Service	es (\$ in M	illions)		FY 2	2017	FY 2	2018	FY 2 Ba		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
Program Management Support	WR	NAWCAD : Patuxent River, MD	0.000	0.000		0.249	Feb 2018	0.000		-		0.000	0.000	0.249	-
		Subtotal	0.000	0.000		0.249		0.000		-		0.000	0.000	0.249	N/A

												-
	D.:					EV 0	040	EV 2042	EV 0040	0 4 T -	T-4-1	Target
	Prior Years	FY 2	047	FY 2	040	FY 2		FY 2019 OCO	FY 2019	Cost To	Total	Value of Contract
	rears	F T 4	:017	FT Z	010	Das	se	000	Total	Complete	Cost	Contract
Project Cost Totals	0.000	0.000		7.100		0.000		-	0.000	0.000	7.100	N/A

#### Remarks

Exhibit R-4, RDT&E Schedule Prof	ile: I	PB 2	019	Nav	у																		I	Date	: Fel	orua	ry 20	18	
Appropriation/Budget Activity 1319 / 7										PE		0524	12M	I (U)	Unn	( <b>Nu</b> i nann ds					550		Vide		er/Na a Pe			Surve	illance
Proj 5504		FY:	2017			FY 20	018			FY 2	2019			FY 2	2020			FY 2	2021			FY 2	2022			FY:	2023		
	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	
Wide Area Persistent Surveillance	_	<u> </u>		_											_														
Milestones																													
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Product Development																													
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Test and Evaluation																İ									İ				

2019DON - 0305242M - 5504

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy		Date: February 2018
1	- 3 (	umber/Name) le Area Persistent Surveillance

# Schedule Details

	St	art	E	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Proj 5504				
Milestones: WAS System Requirement Review	2	2018	2	2018
Product Development: WAS Prototype Integration	2	2018	4	2018