Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Navy											Date: May 2017	
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 7: *Operational Systems Development*					R-1 Program Element (Number/Name) PE 0305231N *I MQ-8 UAV*							
COST ($ in Millions)	**Prior Years**	**FY 2016**	**FY 2017**	**FY 2018 Base**	**FY 2018 OCO**	**FY 2018 Total**	**FY 2019**	**FY 2020**	**FY 2021**	**FY 2022**	**Cost To Complete**	**Total Cost**
Total Program Element	411.245	52.770	26.518	62.656	-	62.656	19.952	26.533	28.775	22.213	88.512	739.174
2768: *MQ-8 Fire Scout*	411.245	52.770	26.518	62.656	-	62.656	19.952	26.533	28.775	22.213	88.512	739.174
Program MDAP/MAIS Code: **Project MDAP/MAIS Code(s):** 253												

A. Mission Description and Budget Item Justification

Note: This budget prioritizes system wholeness to ensure program of record capabilities are fully integrated and support fleet requirements. System wholeness supports completion of MQ-8C operational test requirements, development of radar, weapons, and other payloads, and component redesign required to maintain system hardware.

The MQ-8 Unmanned Air System is a Joint Military Intelligence Program.

The MQ-8 Unmanned Air System is popularly known as "Fire Scout". The Department conducted a Title 10 Section 2433 (Nunn-McCurdy Breach) review on the MQ-8 program in 2014 due to a unit cost breach and certified a restructured program to Congress on 16 June 2014. The restructured program includes MQ-8B air vehicles procured under the original program of record (POR), MQ-8C air vehicles (Endurance Upgrade) procured under the Department of the Navy's Rapid Deployment Capability (RDC) procurement process, and additional MQ-8C air vehicles to be procured to complete the program Fleet requirements, and associated Mission Control Systems (MCS), Unmanned Aerial Vehicle Common Automatic Recovery Systems (UCARS) and support equipment. In addition to the air vehicles, Radar and Weapons capabilities were developed under the Navy's RDC authorities. All acquisition actions previously planned under the RDCs have transitioned into the restructured POR. Current FY16 analysis has determined that a total fleet requirement of 60 air vehicles (51 procurement and 9 RDT&EN / 30 MQ-8Bs and 30 MQ-8Cs) will satisfy current needs thus reducing the total number of MQ-8C production air vehicles to a quantity of 30, a decrement of 10 from previous budget submits.

The MQ-8B-based system achieved Milestone C (MS C) in May 2007. The Nunn-McCurdy certification process revoked the program's MS C approval. MS C for the restructured MQ-8 program is currently scheduled for FY 2017.

The MQ-8 System provides real-time and non-real-time Intelligence, Surveillance and Reconnaissance (ISR) data to tactical users without the use of manned aircraft or reliance on limited joint theater or national assets. The baseline MQ-8 can accomplish missions including over-the-horizon tactical reconnaissance, classification, targeting and laser designation and battle damage assessment (including voice communications relay). Development efforts respond to emerging fleet requirements through integration and improvements to Common Operational Picture capabilities, avionics, payloads, range, endurance, and targeting.

The MQ-8 launches and recovers vertically, and can operate from suitably-equipped air capable ships, as well as confined area land bases. Interoperability is achieved through the use of the Tactical Control System (TCS) software in the MCS, also referred to as a Ground Control Station (GCS), and through the use of the Tactical

Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Navy	Date: May 2017
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Common Data Link (TCDL). The data from the MQ-8 is provided through standard DoD Command, Control, Communications, Computers and ISR (C4ISR) system architectures and protocols.

A deployed MQ-8 system includes air vehicle(s), payloads (i.e. electro-optical/infrared/laser designator-range finder, Automated Identification System, voice communications relay, Radar, Weapons, and other specialty payloads), MCS (with TCS and TCDL integrated for interoperability), a UCARS for automatic launch and recovery, and associated spares and support equipment. The schedules for MCS and UCARS components are based on host ship requirements, while schedules for air vehicle components, support equipment, and training equipment are based on operational deployment plans. A limited number of land-based mission control systems supplement the shipboard systems to support shore-based operations, such as pre-deployment or acceptance functional check flights. These land-based mission control stations will also support depot-level maintenance/post-maintenance activities. The MQ-8C provides additional mission endurance and payload-weight-power, increased reliability, and improved maintainability to the MQ-8 Fire Scout System. MQ-8 systems will support missions on Littoral Combat Ship (LCS) and/or suitably-equipped air capable ships. Quantities of air vehicles are derived from LCS and/or suitably-equipped air capable ship deployment requirements for Surface Warfare and Mine Countermeasures mission sets.

The MQ-8 Radar capability is the initial effort as part of the Surface Warfare (SUW) Increment of the MQ-8C. A maritime Radar has been competitively selected for integration into the MQ-8C Fire Scout System. This system will provide the MQ-8 operators and the supported Littoral Combat Ship (LCS) crew enhanced situational awareness of the Recognized Maritime Picture (RMP) by providing multiple operational modes to include surface search, track, Inverse Synthetic Aperture Radar (ISAR) maritime target classification, and Synthetic Aperture Radar (SAR) target classification capabilities. The maritime Radar will be fully integrated with the Mission Control Systems (MCS) and ship's combat systems providing data in standardized format for ease of dissemination to other users.

B. Program Change Summary ($ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	52.770	26.518	10.902	-	10.902
Current President's Budget	52.770	26.518	62.656	-	62.656
Total Adjustments	0.000	0.000	51.754	-	51.754
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	51.500	-	51.500
• Rate/Misc Adjustments	0.000	0.000	0.254	-	0.254

Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Navy	Date: May 2017
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0305231N *I MQ-8 UAV*

Change Summary Explanation

Technical: FYDP funding increase supports Radar development, MQ-8C and Radar test requirements, and MQ-8C Weapons development. Radar and weapons increases support requirements outlined in the MQ-8C Capabilities Production Document (CPD). Test increases support completion of test team transition from contractor to government, DT and OT events to meet IOC, and deployment dates. Future payload efforts will be considered when developing current efforts.

Schedule:
Updated Milestone C decision and other milestones to align to the restructured MQ-8 program.
Updated Radar capability contract awards, payloads efforts, and reviews to align to the restructured MQ-8 program.
Updated production and delivery schedules for the current production plan.

Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy										Date: May 2017		
Appropriation/Budget Activity 1319 / 7					R-1 Program Element (Number/Name) PE 0305231N / *MQ-8 UAV*				Project (Number/Name) 2768 / *MQ-8 Fire Scout*			
COST ($ in Millions)	**Prior Years**	**FY 2016**	**FY 2017**	**FY 2018 Base**	**FY 2018 OCO**	**FY 2018 Total**	**FY 2019**	**FY 2020**	**FY 2021**	**FY 2022**	**Cost To Complete**	**Total Cost**
2768: *MQ-8 Fire Scout*	411.245	52.770	26.518	62.656	-	62.656	19.952	26.533	28.775	22.213	88.512	739.174
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		
Project MDAP/MAIS Code: 253												

A. Mission Description and Budget Item Justification

The FY18 increase supports Radar development, MQ-8C and Radar test requirements, and MQ-8C Weapons development. Radar and weapons increases support requirements outlined in the MQ-8C Capabilities Production Document (CPD). Test increases support completion of test team transition from contractor to government, DT and OT events to meet IOC, and deployment dates.

The MQ-8 Unmanned Air System is popularly known as "Fire Scout". The Department conducted a Title 10 Section 2433 (Nunn-McCurdy Breach) review on the MQ-8 program in 2014 due to a unit cost breach and certified a restructured program to Congress on 16 June 2014. The restructured program includes MQ-8B air vehicles procured under the original program of record (POR), MQ-8C air vehicles (Endurance Upgrade) procured under the Department of the Navy's Rapid Deployment Capability (RDC) procurement process, and additional MQ-8C air vehicles to be procured to complete the program Fleet requirements, and associated Mission Control Systems (MCS), Unmanned Aerial Vehicle Common Automatic Recovery Systems (UCARS) and support equipment. In addition to the air vehicles, Radar and Weapons capabilities were developed under the Navy's RDC authorities. All acquisition actions previously planned under the RDCs have transitioned into the restructured POR. Current FY16 analysis has determined that a total fleet requirement of 60 air vehicles (51 procurement and 9 RDT&EN / 30 MQ-8Bs and 30 MQ-8Cs) will satisfy current needs thus reducing the total number of MQ-8C production air vehicles to a quantity of 30, a decrement of 10 from previous budget submits.

The MQ-8B-based system achieved Milestone C (MS C) in May 2007. The Nunn-McCurdy certification process revoked the program's MS C approval. MS C for the restructured MQ-8 program is currently scheduled for FY 2017.

The MQ-8 System provides real-time and non-real-time Intelligence, Surveillance and Reconnaissance (ISR) data to tactical users without the use of manned aircraft or reliance on limited joint theater or national assets. The baseline MQ-8 can accomplish missions including over-the-horizon tactical reconnaissance, classification, targeting and laser designation and battle damage assessment (including voice communications relay). Development efforts respond to emerging fleet requirements through integration and improvements to Common Operational Picture capabilities, avionics, payloads, range, endurance, and targeting.

The MQ-8 launches and recovers vertically, and can operate from suitably-equipped air capable ships, as well as confined area land bases. Interoperability is achieved through the use of the Tactical Control System (TCS) software in the MCS, also referred to as a Ground Control Station (GCS), and through the use of the Tactical Common Data Link (TCDL). The data from the MQ-8 is provided through standard DoD Command, Control, Communications, Computers and ISR (C4ISR) system architectures and protocols.

A deployed MQ-8 system includes air vehicle(s), payloads (i.e. electro-optical/infrared/laser designator-range finder, Automated Identification System, voice communications relay, Radar, Weapons, and other specialty payloads), MCS (with TCS and TCDL integrated for interoperability), a UCARS for automatic launch and

Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy		Date: May 2017
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0305231N / *MQ-8 UAV*	**Project (Number/Name)** 2768 / *MQ-8 Fire Scout*

recovery, and associated spares and support equipment. The schedules for MCS and UCARS components are based on host ship requirements, while schedules for air vehicle components, support equipment, and training equipment are based on operational deployment plans. A limited number of land-based mission control systems supplement the shipboard systems to support shore-based operations, such as pre-deployment or acceptance functional check flights. These land-based mission control stations will also support depot-level maintenance/post-maintenance activities. The MQ-8C provides additional mission endurance and payload-weight-power, increased reliability, and improved maintainability to the MQ-8 Fire Scout System.

MQ-8 systems will support missions on Littoral Combat Ship (LCS) and/or suitably-equipped air capable ships. Quantities of air vehicles are derived from LCS and/or suitably-equipped air capable ship deployment requirements for Surface Warfare and Mine Countermeasures mission sets. FYDP funds support the completion of MQ-8C and Radar development, and studies on Weapons and future payloads. Future payload efforts will be considered when developing current efforts.

The MQ-8 Radar capability is the initial effort as part of the Surface Warfare (SUW) Increment of the MQ-8C. A maritime Radar will be competitively selected for integration into the MQ-8C Fire Scout System. This system will provide the MQ-8 operators and the supported LCS crew enhanced situational awareness of the Recognized Maritime Picture (RMP) by providing surface search, track, Inverse Synthetic Aperture Radar (ISAR) maritime target classification, and Synthetic Aperture Radar (SAR) target classification capabilities. The maritime Radar will be fully integrated with the MCS and ship's combat systems providing data in standardized format for ease of dissemination to other users.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Title: Hardware and System Development	43.832	11.275	31.375	0.000	31.375
Articles:	-	-	-	-	-
FY 2016 Accomplishments: Continued MQ-8C hardware, software modifications, and other payload integration. Continued MQ-8 integration and testing on Littoral Combat Ship (LCS). Continued MQ-8C Endurance Upgrade and Radar development Continued MQ-8B FOT&E.					
FY 2017 Plans: Continue MQ-8C hardware, software modifications, and other payload integration. Continue MQ-8 integration and testing on LCS. Continue integration of the selected Radar with the MQ-8C Air Vehicle and Mission Control Systems (MCS). Complete qualification of the selected Radar for the MQ-8C operational environment. Continue System Integration Lab testing of the software build for the maritime Radar integration. Continue MQ-8B FOT&E.					
FY 2018 Base Plans: Continue MQ-8C hardware, software modifications, other payload integration, cyber vulnerability closure and safety capability improvements such a backup landing system and collision avoidance systems. Continue MQ-8 integration and testing on LCS. Continue integration of the selected Radar with the MQ-8C Air Vehicle and					

Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy		Date: May 2017
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0305231N / *MQ-8 UAV*	**Project (Number/Name)** 2768 / *MQ-8 Fire Scout*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
MCS. Complete qualification of the selected Radar for the MQ-8C operational environment. Complete System Integration Lab testing of the software build for the maritime Radar integration. Continue MQ-8 FOT&E ***FY 2018 OCO Plans:*** N/A					
Title: Development/Operational Testing	3.793	7.436	19.616	0.000	19.616
Articles:	-	-	-	-	-
FY 2016 Accomplishments: Continued Dynamic Interface testing of MQ-8C on both classes of Mission Control Systems (MCS). Completed MQ-8C Endurance Upgrade developmental testing. Continued IOT&E testing of MQ-8C on LCS. Continued other payload integration and testing. Continued MQ-8B FOT&E. ***FY 2017 Plans:*** Continue Dynamic Interface testing of MQ-8C on both classes of Littoral Combat Ship (LCS). Continue MQ-8C developmental testing of hardware and software modifications and planning for other payload integration. Continue Operational Test and Evaluation testing of MQ-8C on LCS. Start Developmental Testing of the maritime Radar on the MQ-8C Air Vehicle. Continue MQ-8B FOT&E. ***FY 2018 Base Plans:*** Complete Dynamic Interface testing of MQ-8C on both classes of Littoral Combat Ship (LCS). Continue MQ-8C developmental testing of hardware and software modifications and planning for the other payload integration. Complete Operational Test and Evaluation testing of MQ-8C on LCS. Continue developmental Testing of the maritime Radar on the MQ-8C Air Vehicle. Complete transition of the test team from contractor to government. Continue MQ-8 FOT&E. ***FY 2018 OCO Plans:*** N/A					
Title: Engineering and Technical Services	5.145	7.807	11.665	0.000	11.665
Articles:	-	-	-	-	-
FY 2016 Accomplishments: Continued engineering, program technical management, and logistics support. Continued acquisition planning and execution to transition the MQ-8C, Radar, and Weapons capabilities. Continued Radar, Weapons, other					

Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy		Date: May 2017
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0305231N / *MQ-8 UAV*	**Project (Number/Name)** 2768 / *MQ-8 Fire Scout*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
payloads, Littoral Combat Ship (LCS) capabilities payloads, and system studies and design. Continued MQ-8B FOT&E. ***FY 2017 Plans:*** Continue engineering, program technical management, logistics support of the MQ-8C. Continue acquisition planning and execution to transition the Radar, and Weapons capabilities. Continue Radar, Weapons, other payloads, LCS integration, and system studies and design. Continue MQ-8B FOT&E. ***FY 2018 Base Plans:*** Continue engineering, program technical management, logistics support of the MQ-8C. Continue acquisition planning and execution to transition the Radar, and Weapons capabilities. Continue Radar, Weapons, other payloads, LCS integration, and system studies and design. Continue MQ-8 FOT&E. ***FY 2018 OCO Plans:*** N/A					
Accomplishments/Planned Programs Subtotals	52.770	26.518	62.656	0.000	62.656

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
• APN, 044300: *MQ-8 UAV*	158.680	72.435	49.472	-	49.472	67.463	30.260	24.174	46.863	56.055	1,305.923
• APN, 060510: *MQ-8 UAV Spares*	0.000	1.506	3.499	-	3.499	3.781	2.418	0.803	0.726	0.000	124.670
• APN, 058800: *MQ-8 Series*	16.304	19.003	32.361	-	32.361	19.081	18.020	29.916	30.927	73.230	247.509

Remarks

D. Acquisition Strategy

The Navy's acquisition strategy capitalizes on prior Rapid Deployment Capability efforts, while leveraging existing program investments. The acquisition strategy maintains commonality of MQ-8B and MQ-8C systems, payloads, avionics, software, and ancillary equipment where possible. The acquisition strategy supports the revised Capability Production Document. Initial Operational Capability (IOC) of an MQ-8B-based system was achieved in 2QFY14 while IOC of an MQ-8C-based system onboard Littoral Combat Ship (LCS) is anticipated in 4QFY18. The maritime Radar has been competitively selected. The integration effort will require sole source contracts to the current prime Original Equipment Manufacturers (OEMs) for the Tactical Control System and the MQ-8 Fire Scout air vehicle.

E. Performance Metrics

Successfully provide an MQ-8C air vehicle that supports operational deployments. Successfully provide a Radar capability for operational deployments. Successfully achieve Littoral Combat Ship integration.

Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy			Date: May 2017
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305231N / *MQ-8 UAV*	Project (Number/Name) 2768 / *MQ-8 Fire Scout*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2016 Cost	FY 2016 Award Date	FY 2017 Cost	FY 2017 Award Date	FY 2018 Base Cost	FY 2018 Base Award Date	FY 2018 OCO Cost	FY 2018 OCO Award Date	FY 2018 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary Hardware Development (MQ-8)	C/CPIF	Northrop Grumman Corp : San Diego, CA	305.395	32.730	Nov 2015	9.317	Nov 2016	28.838	Nov 2017	-		28.838	75.821	452.101	452.101
Primary Hardware Development (MQ-8)	C/CPIF	Raytheon Corp : Falls Church, VA	18.986	5.265	Nov 2015	1.958	Nov 2016	2.537	Nov 2017	-		2.537	11.368	40.114	40.114
Primary Hardware Development(RADAR OEM)	C/CPIF	Leonardo MW : Edinburgh, United Kingdom	4.984	5.837	Nov 2015	0.000		0.000		-		0.000	0.000	10.821	10.821
		Subtotal	329.365	43.832		11.275		31.375		-		31.375	87.189	503.036	503.036

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2016 Cost	FY 2016 Award Date	FY 2017 Cost	FY 2017 Award Date	FY 2018 Base Cost	FY 2018 Base Award Date	FY 2018 OCO Cost	FY 2018 OCO Award Date	FY 2018 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Integrated Logistics Support	Various	Various : Various	3.051	0.000		0.000		1.819	Nov 2017	-		1.819	5.374	10.244	-
		Subtotal	3.051	0.000		0.000		1.819		-		1.819	5.374	10.244	-

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2016 Cost	FY 2016 Award Date	FY 2017 Cost	FY 2017 Award Date	FY 2018 Base Cost	FY 2018 Base Award Date	FY 2018 OCO Cost	FY 2018 OCO Award Date	FY 2018 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	NAWCAD : PAXRV, MD	10.235	0.000	Feb 2016	2.386	Nov 2016	12.569	Nov 2017	-		12.569	27.017	52.207	-
Operational Test & Evaluation/QRA	WR	NAWCWD : CHINALK, CA	5.983	3.793	Feb 2016	5.050	Mar 2017	7.047	Nov 2017	-		7.047	20.819	42.692	-
Prior Years T&E no longer funded in the FYDP	Various	Various : Various	0.378	0.000		0.000		0.000		-		0.000	0.000	0.378	-
		Subtotal	16.596	3.793		7.436		19.616		-		19.616	47.836	95.277	-

Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy			Date: May 2017
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0305231N / *MQ-8 UAV*	Project (Number/Name) 2768 / *MQ-8 Fire Scout*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2016 Cost	FY 2016 Award Date	FY 2017 Cost	FY 2017 Award Date	FY 2018 Base Cost	FY 2018 Base Award Date	FY 2018 OCO Cost	FY 2018 OCO Award Date	FY 2018 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Engineering Support	WR	NAWCAD : PAXRV, MD	44.872	3.665	Nov 2015	4.695	Nov 2016	7.116	Nov 2017	-		7.116	28.515	88.863	-
Program Management Support	Various	Various : Various	13.612	1.360	Nov 2015	2.787	Nov 2016	2.405	Nov 2017	-		2.405	12.636	32.800	-
Travel	WR	NAVAIR : PAXRV, MD	1.292	0.120	Nov 2015	0.325	Nov 2016	0.325	Nov 2017	-		0.325	2.804	4.866	-
Prior years Mgmt Svcs no longer funded in the FYDP	Various	Various : Various	2.457	0.000		0.000		0.000		-		0.000	0.000	2.457	-
		Subtotal	62.233	5.145		7.807		9.846		-		9.846	43.955	128.986	-

Remarks

Travel contract type is TO.

	Prior Years	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	411.245	52.770		26.518		62.656		-		62.656	184.354	737.543	-

Remarks

DT&E Team transitioning from contractor to government.

OT&E includes MQ-8C IOT&E.

Exhibit R-4, RDT&E Schedule Profile: FY 2018 Navy		Date: May 2017
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0305231N / *MQ-8 UAV*	**Project (Number/Name)** 2768 / *MQ-8 Fire Scout*

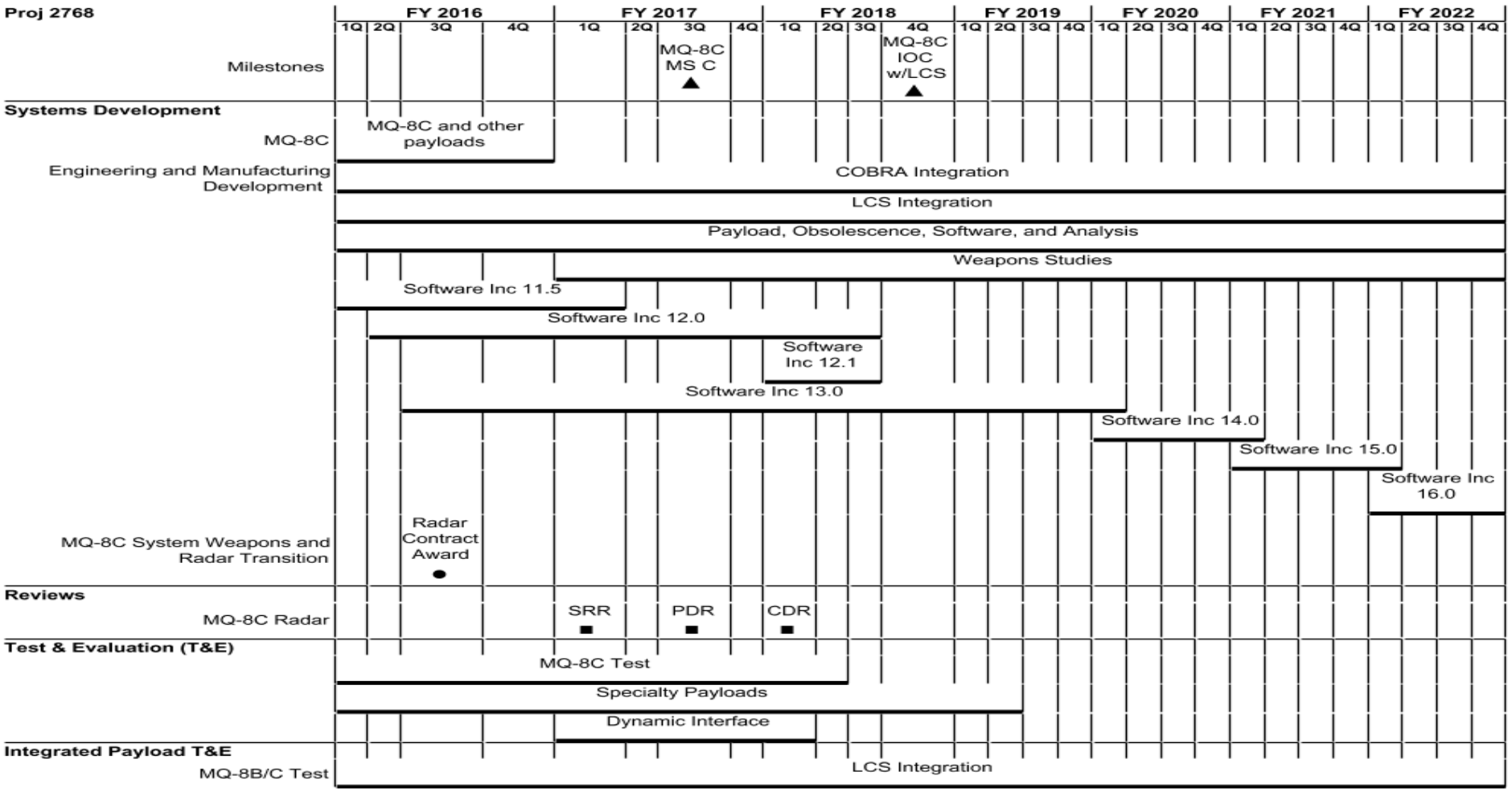

Exhibit R-4, RDT&E Schedule Profile: FY 2018 Navy		Date: May 2017
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0305231N / *MQ-8 UAV*	**Project (Number/Name)** 2768 / *MQ-8 Fire Scout*

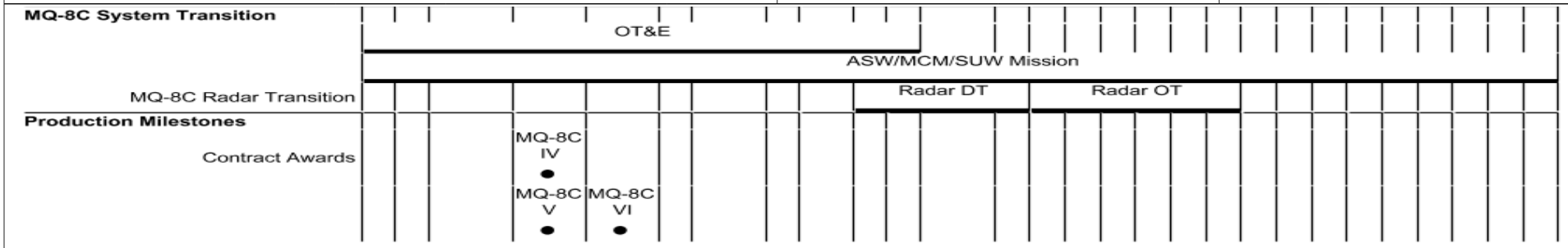

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Exhibit R-4A, RDT&E Schedule Details: FY 2018 Navy		Date: May 2017
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0305231N / *MQ-8 UAV*	**Project (Number/Name)** 2768 / *MQ-8 Fire Scout*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 2768				
Milestones: MQ-8 Initial Operational Capability (IOC) - MQ-8C Littoral Combat Ship (LCS)	4	2018	4	2018
Milestones: MQ-8C Milestone C Decision	3	2017	3	2017
Systems Development: MQ-8C: MQ-8C and other payloads	1	2016	4	2016
Systems Development: Engineering and Manufacturing Development: Coastal Battlefield Reconnaissance and Analysis Integration (COBRA), BLK 1/2/3	1	2016	4	2022
Systems Development: Engineering and Manufacturing Development: Littoral Combat Ship (LCS) Integration	1	2016	4	2022
Systems Development: Engineering and Manufacturing Development: Payload, Obsolescence, Software, and Analysis	1	2016	4	2022
Systems Development: Engineering and Manufacturing Development: Weapons Studies	1	2017	4	2022
Systems Development: Engineering and Manufacturing Development: Software Increment 11.5	1	2016	1	2017
Systems Development: Engineering and Manufacturing Development: Software Increment 12.0	2	2016	3	2018
Systems Development: Engineering and Manufacturing Development: Software Increment 12.1	1	2018	3	2018
Systems Development: Engineering and Manufacturing Development: Software Increment 13.0	3	2016	1	2020
Systems Development: Engineering and Manufacturing Development: Software Increment 14.0	1	2020	1	2021
Systems Development: Engineering and Manufacturing Development: Software Increment 15.0	1	2021	1	2022

Exhibit R-4A, RDT&E Schedule Details: FY 2018 Navy		Date: May 2017
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0305231N / *MQ-8 UAV*	**Project (Number/Name)** 2768 / *MQ-8 Fire Scout*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Systems Development: Engineering and Manufacturing Development: Software Increment 16.0	1	2022	4	2022
Systems Development: MQ-8C System Weapons and Radar Transition: Radar Contract Award	3	2016	3	2016
Reviews: MQ-8C Radar: System Requirements Review (SRR)	1	2017	1	2017
Reviews: MQ-8C Radar: Preliminary Design Review (PDR)	3	2017	3	2017
Reviews: MQ-8C Radar: Critical Design Review (CDR)	1	2018	1	2018
Test & Evaluation (T&E): MQ-8C Development Test	1	2016	2	2018
Test & Evaluation (T&E): Specialty Payloads	1	2016	2	2019
Test & Evaluation (T&E): MQ-8C Dynamic Interface (DI) Testing	1	2017	1	2018
Integrated Payload T&E: MQ-8B/C Test: Littoral Combat Ship (LCS) Integration	1	2016	4	2022
MQ-8C System Transition: Operational Test and Evaluation (OT&E)	1	2016	3	2018
MQ-8C System Transition: ASW/MCM/SUW Mission	1	2016	4	2022
MQ-8C System Transition: MQ-8C Radar Transition: Radar Developmental Test (DT)	2	2018	1	2019
MQ-8C System Transition: MQ-8C Radar Transition: Radar Operational Test (OT)	2	2019	3	2020
Production Milestones: Contract Awards: Air Vehicles MQ-8C IV	4	2016	4	2016
Production Milestones: Contract Awards: Air Vehicles MQ-8C V	4	2016	4	2016
Production Milestones: Contract Awards: Air Vehicles MQ-8C VI	1	2017	1	2017