Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Navy												Date: March 2019
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 7: *Operational Systems Development*					R-1 Program Element (Number/Name) PE 0204163N *I Fleet Tactical Development*							
COST ($ in Millions)	**Prior Years**	**FY 2018**	**FY 2019**	**FY 2020 Base**	**FY 2020 OCO**	**FY 2020 Total**	**FY 2021**	**FY 2022**	**FY 2023**	**FY 2024**	**Cost To Complete**	**Total Cost**
Total Program Element	239.523	8.465	1.344	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	249.332
0725: *Communication Automation*	239.523	8.465	1.344	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	249.332

Note

Funding for the following projects has been realigned out of PE 0204163N into PE 0604280N and PE 0303138N as part of Program Element Consolidation starting in FY20: Project 0725 Communication Automation

A. Mission Description and Budget Item Justification

The Communication Automation Program is a continuing program that provides for automation and communications upgrades for fleet tactical users. It includes Battle Force Tactical Network (BFTN), Joint Aerial Layer Network-Maritime (JALN-M), and Automated Digital Network System (ADNS).

The Battle Force Tactical Network (BFTN) on each surface, subsurface, air, or fixed US Navy platform utilizes previously installed/existing Line of Sight (LOS)/Extended Line of Sight (ELOS) radios to create a secure gateway that inter-connects all users into a common Radio Frequency (RF) Tactical Network. This network directly supports the Resilient Command and Control (RC2) posture of US-Only and North Atlantic Treaty Organization (NATO) Allied/Coalition users' tactical data information exchanges on each platform between and/or across separately dispersed RF Networks even if Satellite Communications (SATCOM) channels to shore are lost. This system is formally specified by both Fleet Commanders as a threshold capability for global maritime command control and communications in a Distributed Maritime Environment to execute current warfighting plans.

Joint Aerial Layer Network-Maritime (JALN-M), a system of systems (SoS) capability, is the Navy implementation of the JALN-M architecture which provides assured communications in any environment, especially RC2. With disruption or loss of space tier communications, JALN-M establishes and/or restores connectivity with the High Capacity Backbone (HCB) tier, the Distribution Access Range Extension (DARE) tier, and the Transition tier in accordance with the JALN-M Initial Capabilities Document (ICD) and the JALN-M Analysis of Alternatives (AoA) Final Report. JALN-M is a robust, assured communications capability providing joint connectivity via the HCB and Navy platform connectivity via a pseudo satellite DARE capability. The objective is to provide an alternative communication path in a denied environment, to support key information exchange requirement via ADNS. Flight test demonstration completed in FY18.

Automated Digital Network System (ADNS) is the method by which Tactical Navy units transfer Internet Protocol (IP) data to Navy and Department of Defense communities on the Global Information Grid (GIG). ADNS is the gateway to tactical Wide Area Network (WAN) afloat for Internet Protocol network operations, supporting information dissemination and external connectivity. ADNS enables services and applications to interconnect to the Defense Information Systems Network (DISN) ashore via multiple Radio Frequency (RF) resources, to include emerging Assured Command and Control (C2) capabilities and pier connectivity.

Automated Digital Network System (ADNS) will perform technical analyses and engineering efforts associated with implementation of new technology to enable rapid introduction of new products and technology, prevent obsolescence, and end of support issues.

Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Navy	Date: March 2019
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0204163N *I Fleet Tactical Development*

B. Program Change Summary ($ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	33.525	25.014	23.870	-	23.870
Current President's Budget	8.465	1.344	0.000	-	0.000
Total Adjustments	-25.060	-23.670	-23.870	-	-23.870
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-23.670			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.060	0.000			
• Program Adjustments	0.000	0.000	-1.436	-	-1.436
• Rate/Misc Adjustments	0.000	0.000	-22.434	-	-22.434
• Congressional Directed Reductions Adjustments	-25.000	-	-	-	-

Change Summary Explanation

Beginning in FY20, project 0725 was realigned from Program Element (PE) 0204163N to PE 0604280N (BFTN) and 0303138N (ADNS) due to budget line item consolidation.

FY18: High frequency over-the-horizon robust enterprise (HForce) received a $25.0 million congressional reduction for concurrent efforts.

FY19: HForce received a $23.67 million congressional reduction and was terminated.

Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy			Date: March 2019
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0204163N / *Fleet Tactical Development*	Project (Number/Name) 0725 / *Communication Automation*	

COST ($ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
0725: *Communication Automation*	239.523	8.465	1.344	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	249.332
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

Funding has been realigned out of PE 0204163N Project 0725, into PE 0604280N (BFTN) and PE 0303138N (ADNS) as part of RDTEN PE Consolidation starting in FY20.

A. Mission Description and Budget Item Justification

The Battle Force Tactical Network (BFTN) on each surface, subsurface, air, or fixed US Navy platform uses previously installed/existing Line of Sight (LOS)/Extended Line of Sight (ELOS) radios (a.k.a. Radio Frequency (RF)) to create a secure gateway that inter-connects all users into a common RF Tactical Network (a.k.a. wireless). BFTN enables war-fighters to digitally communicate National Atlantic Treaty Organization (NATO) Allied/Coalition and US-Only information necessary to execute and plan in a real-time operational environment without relying on ashore application server interaction. This RF Network separately supports US-Only Carrier and Expeditionary Strike Group Commanders and maintains the digital communication ability to execute and plan with other U.S. ships, submarines or aircraft, as well as with NATO Allied/Coalition networks, even if Satellite Communication (SATCOM) channels to shore are lost. This system is formally specified by both Fleet Commanders as a threshold capability for global maritime command control and communications in a Distributed Maritime Environment to execute current warfighting plans.

Joint Aerial Layer Network-Maritime (JALN-M), a system of systems (SoS) capability, is the Navy implementation of the JALN-M architecture which provides assured communications in any environment, especially Resilient Command and Control (RC2). With disruption or loss of space tier communications, JALN-M establishes and/or restores connectivity with the High Capacity Backbone (HCB) tier, the Distribution Access Range Extension (DARE) tier, and the Transition tier in accordance with the JALN-M Initial Capabilities Document (ICD) and the JALN-M Analysis of Alternatives (AoA) Final Report. JALN-M is a robust, assured communications capability providing joint connectivity via the HCB and Navy platform connectivity via a pseudo satellite DARE capability. The objective is to provide an alternative communication path in a denied environment, to support key information exchange requirement via Automated Digital Network Systems (ADNS). Flight test demonstration completed in FY18.

Automated Digital Network System (ADNS) provides routing, switching, baseband, configuration and monitoring capabilities for interconnecting naval, coalition and joint enclaves worldwide. ADNS utilizes off the shelf equipment and network protocols as specified by the Joint Technical Architecture. ADNS INC III combines all Navy Tactical Voice, Secure Communications Interoperability Protocol (SCIP) Inter-Working Function, video, and data requirements into a converged IP data stream. ADNS INC III supports higher bandwidth satellites, providing up to 25 megabytes per second (Mbps) of throughput on Unit Level ships and up to 50 Mbps on Force Level ships. INC III architecture also incorporates an IPv4/IPv6 dual stack and Cipher-Text (CT) security architecture to align to the Global Information Grid (GIG) in order to mesh Navy Tactical surface, subsurface, airborne platforms, and Aegis Ashore sites into single IP environments with gateway functions to coalition and joint networks, in addition to greater security utilizing the High Assurance Internet Protocol Encryptor (HAIPE) devices. ADNS will serve as the Navy tactical interface for IP Networking for

Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy		Date: March 2019
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0204163N / *Fleet Tactical Development*	**Project (Number/Name)** 0725 / *Communication Automation*

not only the JALN-M system but also the key Assured Command and Control (C2) capabilities. ADNS will investigate emerging technologies to integrate with additional Department of Defense C4I Programs to improve inter-strike group networking and extend the network to the tactical edge.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Title: Battle Force Tactical Network (BFTN)	0.499	0.500	0.000	0.000	0.000
Articles:	-	-	-	-	-
Description: Overall program efforts include investigation of emerging technologies through study, development and associated testing for feasibility of program insertion. BFTN is the Navy's program of record for high-frequency internet protocol (HFIP) and Ultra High Frequency (UHF) Line of Sight (LOS) subnet relay (SNR) communications. BFTN is the only Allied/Coalition option, providing command and control in a non-satellite communications (SATCOM) or SATCOM-denied environment and serves as a primary backup for SIPRNET (Secret Internet Protocol Router Network) in the absence of SATCOM.					
FY 2019 Plans: Continue to correct deficiencies identified during Initial Operational Test & Evaluation (IOT&E), conduct Follow-On Test & Evaluation (FOT&E), and obtain Full Rate Production (FRP) decision. Continue to develop engineering solutions for end of life issues, obsolescence, and increase system ease of use for operators.					
FY 2020 Base Plans: FY20 funding has been realigned to PE 0604280N Project 0725 as part of PE Consolidation.					
FY 2020 OCO Plans: N/A					
FY 2019 to FY 2020 Increase/Decrease Statement: Program decrease is due to realigning funds as part of PE Consolidation. FY20 justification and change explanation is provided under PE 0604280N Project 0725.					
Title: Joint Aerial Layer Network -Maritime (JALN-M)	7.038	0.000	0.000	0.000	0.000
Articles:	-	-	-	-	-
Description: Current threats being pursued by US adversaries include the ability to deny US Forces satellite communications. In the absence of satellite communications, JALN-M is a system that can provide high capacity anti-jam communications to naval forces by utilizing aerial relays. The FY18 demonstration will complete the proof-of-concept.					
FY 2019 Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy		Date: March 2019
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0204163N / *Fleet Tactical Development*	**Project (Number/Name)** 0725 / *Communication Automation*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
N/A ***FY 2020 Base Plans:*** N/A ***FY 2020 OCO Plans:*** N/A ***FY 2019 to FY 2020 Increase/Decrease Statement:*** No funding in FY20.					
Title: Automated Digital Network System (ADNS) ***Articles:*** ***FY 2019 Plans:*** Continue testing and interfacing with ENMS, IPv6 transition, and integration of SHF. Continue the IDD and integration with network applications, develop LOS link, DISN integration and development of CT piers. Investigate and recommend platform network devices, network design support to include procurement, integration and testing of the WAN. Continue network-based Cyber Security technology and virtualization of ADNS. ***FY 2020 Base Plans:*** FY20 funding has been realigned to PE 0303138N Project 0725 as part of PE Consolidation. ***FY 2020 OCO Plans:*** N/A ***FY 2019 to FY 2020 Increase/Decrease Statement:*** Program decrease is due to realigning funds as part of PE Consolidation. FY20 justification and change explanation is provided under PE 0303138N Project 0725.	0.928 -	0.844 -	0.000 -	0.000 -	0.000 -
Accomplishments/Planned Programs Subtotals	8.465	1.344	0.000	0.000	0.000

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
• OPN/3057: *Battle Force Tactical Network (BFTN)*	16.280	39.081	35.156	-	35.156	40.460	42.458	31.586	32.168	Continuing	Continuing

Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy		Date: March 2019
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0204163N / *Fleet Tactical Development*	**Project (Number/Name)** 0725 / *Communication Automation*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
• OPN/3050: *Automated Digital Network System (ADNS)*	99.545	105.087	137.861	-	137.861	122.421	94.494	96.577	92.889	Continuing	Continuing
• RDTEN/0604280N/0725: *Battle Force Tactical Network (BFTN)*	0.000	0.000	3.114	-	3.114	0.505	0.562	0.620	0.652	Continuing	Continuing

Remarks

D. Acquisition Strategy

Battle Force Tactical Network (BFTN) - Completion of Full Rate Production (FRP) decision enabling the program to move forward with fielding additional systems.

Joint Aerial Layer Network-Maritime (JALN-M) will address capability gaps as directed by the JALN-M Analysis of Alternatives (AoA) by integrating a suite of technical capabilities into a single payload. Technical and acquisition support will be provided to conduct High Capacity Backbone (HCB) and Airborne Extended Data Rate (XDR) demonstrations and to develop two prototype JALN-M payloads.

Automated Digital Network System (ADNS): Evolutionary acquisition approach with overlapping development and implementation phases for defined INC I, II, and III baselines. INC I, II, and III will use competitively awarded contracts to implement changes consistent with acquisition initiatives. ADNS leverages Commercial-Off-The-Shelf (COTS) and Government Off-the-Shelf (GOTS) products while capitalizing on acquisition reform initiatives to achieve material savings in the logistics, installation, integration and training areas. Where feasible, differing types of advantageous contract vehicles will be used to provide flexibility, decrease contract administrative costs, and encourage acquisition streamlining through the use of COTS/GOTS products.

E. Performance Metrics

BFTN - Complete Follow-on Test and Evaluation (FOT&E) event to demonstrate a 3 node high frequency network connection. This event will evaluate the capability of BFTN against its intended threats in threat-representative environments. Performance will be evaluated against defined and derived performance criteria.

ADNS - Included in the ADNS program goals are the improvements to bandwidth throughput, connectivity to multiple Radio Frequency (RF) paths, greater security, and system capability delivered within a smaller form factor. The ADNS program will, at a minimum, provide bandwidth throughput enhancements resulting in an increase from 2 megabytes per
second (Mbps) to 25/50 Mbps. ADNS will also provide the ability to transport data across multiple paths simultaneously vice the current limitations of single or secondary paths. ADNS will provide greater security posture by encrypting each enclave, increasing performance of the routing and transport architecture while reducing physical footprint and cost, and securing the core via Cipher-Text.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Navy			Date: March 2019
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0204163N / *Fleet Tactical Development*	Project (Number/Name) 0725 / *Communication Automation*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2018 Cost	FY 2018 Award Date	FY 2019 Cost	FY 2019 Award Date	FY 2020 Base Cost	FY 2020 Base Award Date	FY 2020 OCO Cost	FY 2020 OCO Award Date	FY 2020 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development	Various	Various : Various	62.126	0.000		0.000		0.000		-		0.000	0.000	62.126	-
Systems Engineering-ADNS	WR	SSC : PAC/LANT	25.280	0.557	Dec 2017	0.510	Dec 2018	0.000		-		0.000	0.000	26.347	-
Systems Engineering-ADNS	WR	NUWC : Newport, RI	3.647	0.184	Dec 2017	0.166	Dec 2018	0.000		-		0.000	0.000	3.997	-
System Engineering-ADNS	C/CPFF	NUWC : Newport, RI	0.255	0.046	Mar 2018	0.041	Mar 2019	0.000		-		0.000	0.000	0.342	-
Integration and Test-ADNS	C/CPFF	SSC : PAC	0.132	0.046	Mar 2018	0.041	Mar 2019	0.000		-		0.000	0.000	0.219	-
Primary Hardware/ Software - HForce	C/FFP	MIT/Lincoln Lab : Lexington MA	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
Primary Hardware/ Software - HForce TRANSEC	C/FFP	MIT/Lincoln Lab : Lexington MA	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
System Engineering JALN-M	MIPR	GTRI : Atlanta, GA	0.000	1.500	Mar 2018	0.000		0.000		-		0.000	0.000	1.500	-
Certification Authorization - HForce	WR	NSA : Ft. Meade, MD	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
Primary Hardware/ Software - JALN-M	C/FFP	MIT/Lincoln Lab : Lexington MA	75.333	1.796	Feb 2018	0.000		0.000		-		0.000	0.000	77.129	-
System Engineering JALN-M	C/CPFF	STF : San Diego,CA	4.394	0.800	Feb 2018	0.000		0.000		-		0.000	0.000	5.194	-
System Enginering JALN-M	WR	SSC : PAC	3.838	1.792	Nov 2017	0.000		0.000		-		0.000	0.000	5.630	-
		Subtotal	175.005	6.721		0.758		0.000		-		0.000	0.000	182.484	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2018 Cost	FY 2018 Award Date	FY 2019 Cost	FY 2019 Award Date	FY 2020 Base Cost	FY 2020 Base Award Date	FY 2020 OCO Cost	FY 2020 OCO Award Date	FY 2020 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Support	Various	Various : Various	11.701	0.000		0.000		0.000		-		0.000	0.000	11.701	-
System Engineering BFTN	WR	SSC : LANT	0.892	0.000		0.250	Dec 2018	0.000		-		0.000	0.000	1.142	-
System Engineering BFTN	C/CPFF	STF : San Diego, CA	0.948	0.000		0.000		0.000		-		0.000	0.000	0.948	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Navy			Date: March 2019
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0204163N / *Fleet Tactical Development*	Project (Number/Name) 0725 / *Communication Automation*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2018 Cost	FY 2018 Award Date	FY 2019 Cost	FY 2019 Award Date	FY 2020 Base Cost	FY 2020 Base Award Date	FY 2020 OCO Cost	FY 2020 OCO Award Date	FY 2020 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Travel - JALN-M	WR	PMW 170 : San Diego, CA	0.000	0.050	Jan 2018	0.000		0.000		-		0.000	0.000	0.050	-
Studies and Analysis BFTN	WR	SSC : PAC	0.604	0.000		0.000		0.000		-		0.000	0.000	0.604	-
Development Support - HForce	WR	SSC : San Diego,CA	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
System Engineering BFTN	WR	SSC : PAC	1.312	0.000		0.250	Dec 2018	0.000		-		0.000	0.000	1.562	-
Logistics Support BFTN	C/CPFF	CSA : San Diego, CA	0.799	0.000		0.000		0.000		-		0.000	0.000	0.799	-
Development Support - JALN-M	C/CPFF	BAH : San Diego	4.787	0.850	Dec 2017	0.000		0.000		-		0.000	0.000	5.637	-
Development Support - JALN-M	WR	SSC : PAC	4.004	0.000		0.000		0.000		-		0.000	0.000	4.004	-
Financial Management Support - JALN-M	C/CPFF	Artemis : San Diego, CA	1.133	0.000		0.000		0.000		-		0.000	0.000	1.133	-
Certification Authority-ADNS	C/CPFF	BAH : San Diego,CA	0.232	0.095	Jan 2018	0.086	Jan 2019	0.000		-		0.000	0.000	0.413	-
		Subtotal	26.412	0.995		0.586		0.000		-		0.000	0.000	27.993	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2018 Cost	FY 2018 Award Date	FY 2019 Cost	FY 2019 Award Date	FY 2020 Base Cost	FY 2020 Base Award Date	FY 2020 OCO Cost	FY 2020 OCO Award Date	FY 2020 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	Various	Various : Various	22.977	0.000		0.000		0.000		-		0.000	0.000	22.977	-
Integration and Test BFTN	C/FFP	COMOPTEVOR : Norfolk, VA	2.219	0.050	Mar 2018	0.000		0.000		-		0.000	0.000	2.269	-
Test and Evaluation Support BFTN	WR	SSC : PAC	9.101	0.449	Dec 2017	0.000		0.000		-		0.000	0.000	9.550	-
		Subtotal	34.297	0.499		0.000		0.000		-		0.000	0.000	34.796	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Navy			Date: March 2019
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0204163N / *Fleet Tactical Development*	Project (Number/Name) 0725 / *Communication Automation*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2018 Cost	FY 2018 Award Date	FY 2019 Cost	FY 2019 Award Date	FY 2020 Base Cost	FY 2020 Base Award Date	FY 2020 OCO Cost	FY 2020 OCO Award Date	FY 2020 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support - HForce	C/CPFF	BAH : San Diego, CA	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
Program Management Support - JALN-M	C/CPFF	BAH : San Diego, CA	0.000	0.250	Jan 2018	0.000		0.000		-		0.000	0.000	0.250	-
Program Management Support - BFTN	C/CPFF	BAH : San Diego, CA	2.822	0.000		0.000		0.000		-		0.000	0.000	2.822	-
Program Management Support JALN-M	C/CPFF	BAH : San Diego, CA	0.987	0.000		0.000		0.000		-		0.000	0.000	0.987	-
		Subtotal	3.809	0.250		0.000		0.000		-		0.000	0.000	4.059	N/A

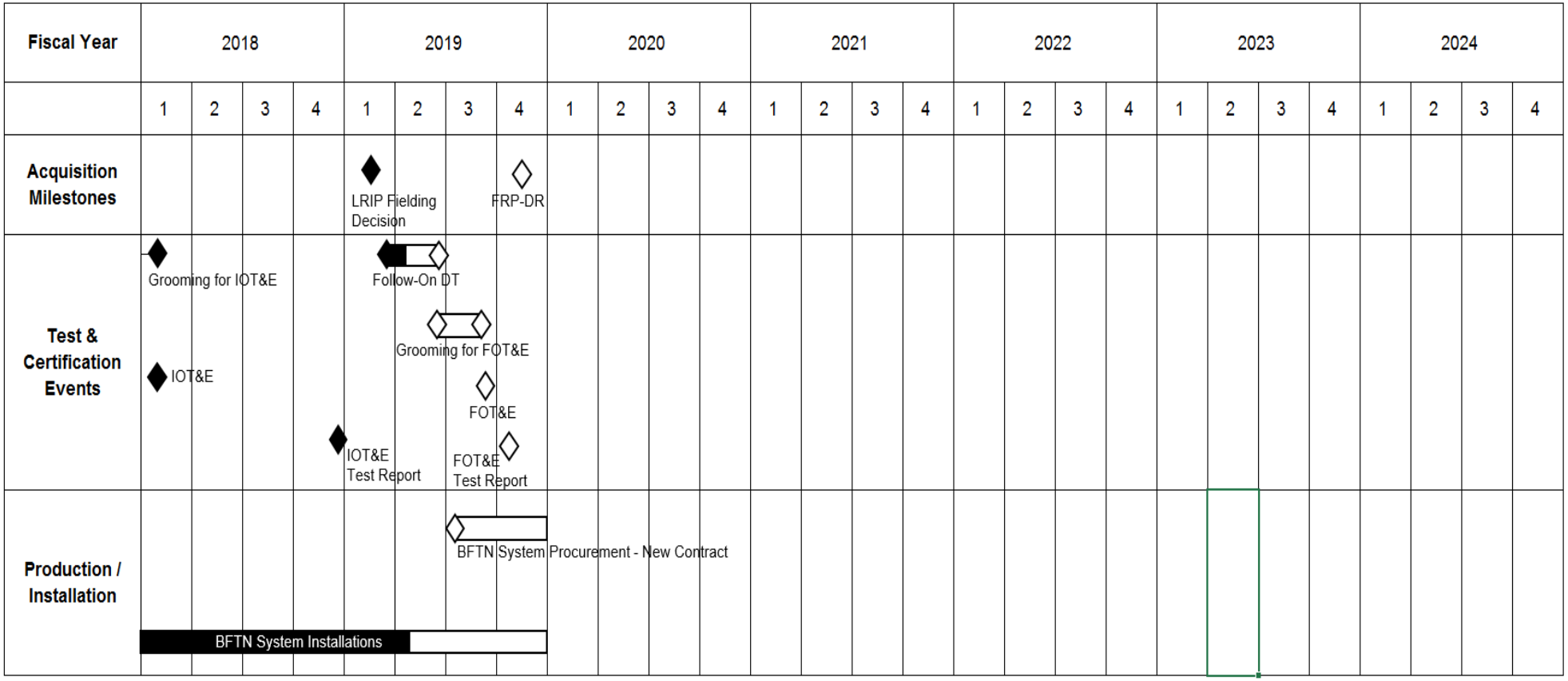
	Prior Years	FY 2018 Cost	FY 2018 Award Date	FY 2019 Cost	FY 2019 Award Date	FY 2020 Base Cost	FY 2020 Base Award Date	FY 2020 OCO Cost	FY 2020 OCO Award Date	FY 2020 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	239.523	8.465		1.344		0.000		-		0.000	0.000	249.332	N/A

Remarks

FY20 cost data is provided under PE 0604280N Project 0725 and PE 0303138N Project 0725.

Exhibit R-4, RDT&E Schedule Profile: PB 2020 Navy		Date: March 2019
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0204163N / *Fleet Tactical Development*	**Project (Number/Name)** 0725 / *Communication Automation*

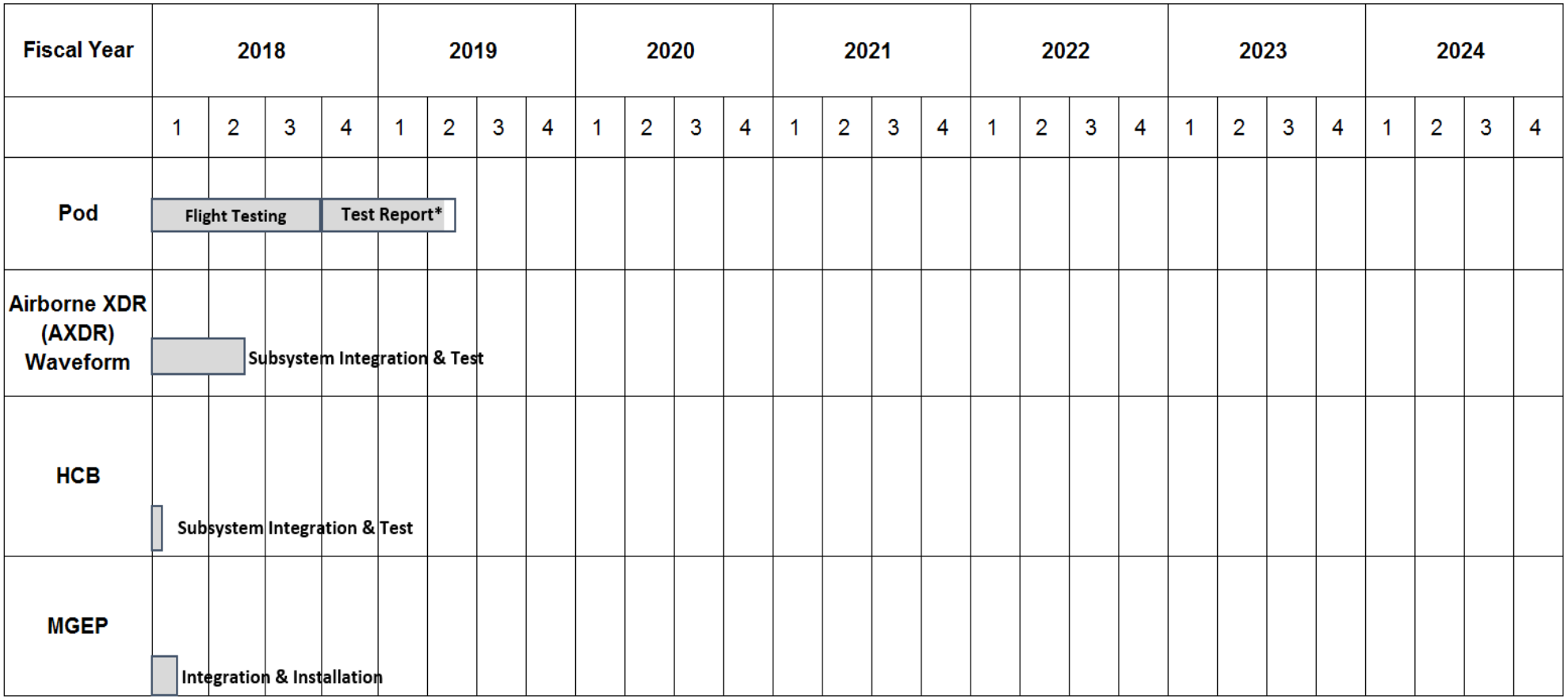
BFTN



- Original FRP-DR has been updated to reflect LRIP Fielding Decision with FRP-DR in August FY 2019.
- Efforts in FY20 and out are funded under PE 0604280N Project 0725 (new PE/Project).

Exhibit R-4, RDT&E Schedule Profile: PB 2020 Navy		Date: March 2019
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0204163N / *Fleet Tactical Development*	**Project (Number/Name)** 0725 / *Communication Automation*

JALN-M Demonstration



Note: Test Report is funded with FY 2018 RDT&E

Exhibit R-4, RDT&E Schedule Profile: PB 2020 Navy		Date: March 2019
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0204163N / *Fleet Tactical Development*	**Project (Number/Name)** 0725 / *Communication Automation*

EXHIBIT R-4, RDT&E Schedule Profile: PB 2020 — **DATE:** December 2018

Appropriation/Budget Activity	R-1 Program Element	PROJECT NUMBER AND NAME
1319 / 07	PE 0204163N	0725 - Communication Automation - ADNS

ADNS

Fiscal Year	2018				2019				2020				2021				2022				2023				2024			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Acquisition Milestones							INC III ILA-S/ PSR		FY20 to FY24 funding has been realigned to PE 0303138N Project 0725 as part of PE Consolidation																			
System Development	Interface Design Development & Integration with Future SATCOM and Radio Frequency (RF) paths																											
	Interface Design Development & Integration with Network Applications and DISN																											
Test & Evaluation Milestones Operational Assessment (OA) Development Test Operational Test																												
Production	Fielding & Sustainment INC III Surface																											
	Fielding & Sustainment INC III Subs																											
Deliveries																												

Exhibit R-4A, RDT&E Schedule Details: PB 2020 Navy		Date: March 2019
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0204163N / *Fleet Tactical Development*	**Project (Number/Name)** 0725 / *Communication Automation*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
BFTN				
Grooming for Initial Operational Test & Evaluation	1	2018	1	2018
Initial Operational Test & Evaluation	1	2018	1	2018
IOT&E Test Report	4	2018	4	2018
Low Rate Initial Production (LRIP) Fielding Decision	1	2019	1	2019
Follow-On Developmental Test (DT)	1	2019	2	2019
Grooming for Follow-On Test & Evaluation (FOT&E)	2	2019	3	2019
FOT&E	3	2019	3	2019
FOT&E Test Report	4	2019	4	2019
FRP-DR	4	2019	4	2019
JALN-M				
Pod Flight Testing	1	2018	3	2018
Pod Test Report	4	2018	2	2019
ADNS				
System Development: ADNS: Increment III_Interface Design Development and Integration with Network Applications and Defense Information Systems Network (DISN)	1	2018	4	2024
System Development: ADNS: Increment III_Interface Design Development and Integration with SATCOM and Radio Frequency (RF) paths	1	2018	4	2024
Production: ADNS: Increment III_Fielding and Sustainment INC III Surface	1	2018	4	2024
Production: ADNS: Increment III_Fielding and Sustainment INC III Submarines	1	2018	4	2024
Acquisition Milestones: ADNS: Increment III Product Support Review	3	2019	3	2019