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 5: System

PE 0604810N I (U)Joint Strike Fighter Follow On Mod (FoM) - Navy

Development & Demonstration (SDD)

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	183.889	25.041	143.855	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	352.785
2936: F-35C C2D2	183.889	25.041	143.855	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	352.785

Program MDAP/MAIS Code:

Navy

Project MDAP/MAIS Code(s): 198

A. Mission Description and Budget Item Justification

The F-35 Joint Strike Fighter (JSF) Program will develop and field an affordable, highly common family of next generation strike aircraft for the United States Navy, United States Air Force, United States Marine Corps and International Partners countries. There are three variants the F-35A Conventional Takeoff and Landing variant; F-35B Short Take Off and Vertical Landing; and the F-35C Aircraft Carrier suitable variant. Maximum commonality among the variants, consistent with National Disclosure Policy, will minimize total air system life cycle costs. Planning and pre-development systems engineering for the Block 4 continues as Initial Operational Capability (IOC) is met for each variant during System Development and Demonstration (SDD).

The JSF Continuous Capability Development and Delivery (C2D2) efforts provide incremental warfighting capability improvements to maintain joint air dominance against evolving threats. C2D2 capability requirements were initiated through ongoing Service-led operational analysis of warfighting gaps identified in the Fifth Generation Fighter Modernization Initial Capabilities Document (ICD), and through F-35 JSF Block 4 Mission Decomposition analysis completed in FY2014. These analyses serve as the basis for the F-35 Block 4 Capabilities Development Document (CDD), staffed through the Air Force Requirements Oversight Council (AFROC) and signed by the USAF Chief of Staff in January 2015. Joint Requirements Oversight Council (JROC) approved the CDD 21 March 2017. Modernization activities in FY2017 and FY2018 include systems engineering, risk reduction, and infrastructure upgrades required to deliver full Air System capabilities to support initial fleet availability of Block 4 upgrades in FY2021.

C2D2 efforts designated as Block 4 include a robust weapons integration portfolio and provide new opportunities for International Partners to assess, integrate, and field unique capabilities based on global sovereign requirements.

The United Kingdom, Italy, Netherlands, Turkey, Canada, Australia, Denmark and Norway are participants in F-35 modernization. The program shown here reflects United States Marine Corps funding. Total funding for all Service and International Partners is reported at the accomplishment/planned program level since activities support all aircraft variants. Foreign Military Sales are ongoing separately.

PE 0604810M/N ending in FY18 and continues in PE 0604840M/N as budget moves from BA05 to BA07.

PE 0604810N: (U) Joint Strike Fighter Follow On Mod (F... UNCLASSIFIED

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

R-1 Program Element (Number/Name)

Appropriation/Budget Activity

1319: Research, Development, Test & Evaluation, Navy I BA 5: System Development & Demonstration (SDD)

PE 0604810N I (U)Joint Strike Fighter Follow On Mod (FoM) - Navy

Date: February 2018

,					
B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	63.387	143.855	225.442	-	225.442
Current President's Budget	25.041	143.855	0.000	-	0.000
Total Adjustments	-38.346	0.000	-225.442	-	-225.442
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-0.314	0.000			
Rate/Misc Adjustments	0.000	0.000	-225.442	-	-225.442
Congressional Directed Reductions	-38.032	-	-	-	-
Adjustments					

Change Summary Explanation

Adjusted R-4 schedule as follows:

Contracting: Removed Modernization RFP decision to reflect current strategy.

Changed Block 4 Phase II contract award to 2QFY18 to reflect current plan.

Added 4.2 Systems Requirment Review (SRR) in 4QFY19.

Changed contract naming conventions Pre-modernization-Modernization to Phase I and Phase II.

Program Changes:

FY2017 -\$38.032M adjustment in FY17 is due to Congressional Reduction.

FY2019 -\$225.442 adjustmnet in FY19 due to change in budget from BA05 to BA 07. PE 060480M/N begins in FY19.

Exhibit R-2A, RD1&E Project Ju	istification:	PB 2019 N	ıavy							Date: Febi	uary 2018	
Appropriation/Budget Activity 1319 / 5					PE 060481	am Elemen ION / (U)Joil Mod (FoM)	nt Strike Fig	Project (N 2936 / F-38	lumber/Name) 35C C2D2			
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
2936: F-35C C2D2	183.889	25.041	143.855	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	352.785
Quantity of RDT&E Articles	-	-	-	-	-	-	-					

Project MDAP/MAIS Code: 198

Note

Total cost, including International partner contributions, USN, USMC, and USAF funding: FY2017 \$167.902M; FY2018 \$738.389M; FY2019 continues in PE 0604840M/N as budget moves from BA05 to BA07.

R-2A table shown above reflects service funding only.

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R-2A (section B)/R-3 displays combined program for JSF Continuous Capability Development and Delivery (C2D2).

JSF C2D2 Includes:

USAF PE 0207142F BPAC 675346 USN PE 0604810N/ Project Unit 2936 USMC PE 0604810M Project Unit 2935

USN PE 0604800N Project Unit 9999 (FY14): \$1.500M USMC PE 0604800M Project Unit 9999 (FY14): \$1.500M

International Partner Contributions

A. Mission Description and Budget Item Justification

F-35 C2D2 provides continuing incremental upgrades of the three F-35 variants and associated ground equipment. Upgrades are essential capabilities for Air Interdiction and Strategic Attack, Close Air Support, Suppression and Destruction of Enemy Air Defenses, Offensive and Defensive Counter Air and expanded Surface Warfare. The C2D2 acquisition strategy is based upon incremental deliveries of capabilities. The strategy includes periodic deliveries with a focus on hardware, tech refresh and softwre. C2D2 capability planning includes an efficient transition from F-35 SDD to C2D2. As SDD development activities ramp down C2D2 will assume responsibility for improvements and modernization efforts.

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 - Block 4 Planning and Systems Engineering	36.716	314.240	0.000	0.000	0.000
Articles:	-	-	-	-	-

PE 0604810N: (U) Joint Strike Fighter Follow On Mod (F... Navy

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R-1 Line #158

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy				Date: Febr	uary 2018	
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/I PE 0604810N / (U)Joint Strike Fig Follow On Mod (FoM) - Navy		Project (N 2936 / <i>F-3</i> :	umber/Nan 5C C2D2	ne)	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantitie	es in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Description: Block 4 Planning and Systems Engineering preliminarily design Review (SRR) for all variants of the F-35 Aircraft. Modernization efforts is the of capabilities for the entire Block 4 upgrade to include sub-blocks 4.1 and 4 previous Block 4 Requirements Decomposition effort which will include active System Functional Review (SFR) and select facility upgrades required for Block and evaluation. Included in Block 4 are upgraded capabilities and continuity Air System viability against evolving threats indicated in the Electronic Warf (ICD), the Fifth Generation Fighter Modernization ICD, and the Block 4 Cap (CDD), reduce life cycle cost, and improve operational suitability. Expected Design Review (PDR) and a Block 4.2 System Requirements Review (SRR capabilities requirements. Post-PDR risk reduction, preplanning for subsequand investments to deliver the full Block 4 Air System capabilities are included FY 2018 Plans: Conduct a Block 4.1 System Functional Review (SFR). Award Phase II contact a SRR, and Post-PDR risk reduction and Planning. Continuing developm capabilities and service unique weapons.	ne Requirements Decomposition 4.2. This is a continuation of the vities leading up to a successful Block 4 research, development, nuous improvements to maintain fare Initial Capabilities Document bability Development Document completion of a Block 4.1 Preliminary by will address additional Block 4 uent Block 4 Modernization events, led. tract for Block 4.1 PDR, Block					
FY 2019 Base Plans: FY19 effort continues in PE 0604840M/N.						
FY 2019 OCO Plans: N/A						
FY 2018 to FY 2019 Increase/Decrease Statement: PE 0604810M/N ending in FY18 and continues in PE 0604840M/N as budg	get moves from BA05 to BA07.					
Title: Product Development - Technology Refresh 3 (TR-3)	Articles:	77.177 -	96.025	0.000	0.000	0.00
Description: Technology Refresh 3 (TR-3) Design Competition, Developmenthe design phase of TR-3 program fully supports Block 3F functionality and capabilities documented in the System Requirements Document (SRD). TR support 4X processing growth factor based on the current processing estim of TR-3 subsystems Integrated Core Processor (ICP), Aircraft Memory Systems	allows incorporation of all Block 4 R-3 hardware redesign is required to ates for all 3F capabilities. Redesign					

PE 0604810N: (U)Joint Strike Fighter Follow On Mod (F... Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy				Date: Febr	uary 2018	
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number) PE 0604810N / (U)Joint Strike Fig Follow On Mod (FoM) - Navy		Project (N 2936 / F-38	umber/Nan 5C C2D2	ne)	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quar	ntities in Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Display (PCD)) configurations will contain new backplane technology, c modified middleware necessary to take the design of the TR-3 System to						
FY 2018 Plans: The TR-3 program will continue design toward Critical Design Review of Panoramic Cockpit Display (PCD), and Aircraft Memory System (AMS), prototype the middleware software that will enable F-35's new messaging and ensure compatibility with current F-35 sensors. Additionally the init timely first article delivery to the production line in FY23.	In addition the TR-3 program will ng architecture delivered as part of TR-3					
FY 2019 Base Plans: FY19 effort continues in PE 0604840M/N.						
FY 2019 OCO Plans: N/A						
FY 2018 to FY 2019 Increase/Decrease Statement: PE 0604810M/N ending in FY18 and continues in PE 0604840M/N as be	oudget moves from BA05 to BA07.					
Title: Infrastructure and Support Costs	Articles:	52.009 -	132.026	0.000	0.000	0.000
Description: Funding will support infrastructure investment planning ar for Block 4 development, integration, test and evaluation. Funding relate government, and contractor labor. Other costs in support of ranges, charges, charges.	ed to the Integrated Test Force,					
FY 2018 Plans: Continue development support for defining, managing and acquiring the in approved requirements documents. Transfer of integrated test force r to closure.						
FY 2019 Base Plans: FY19 effort continues in PE 0604840M/N.						
FY 2019 OCO Plans: N/A						
FY 2018 to FY 2019 Increase/Decrease Statement:						

PE 0604810N: (U)Joint Strike Fighter Follow On Mod (F... Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy				Date: Febr	uary 2018	
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/I PE 0604810N / (U)Joint Strike Fig Follow On Mod (FoM) - Navy		Project (N 2936 / F-38	umber/Nan 5C C2D2	ne)	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in	n Each)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
PE 0604810M/N ending in FY18 and continues in PE 0604840M/N as budget r	moves from BA05 to BA07.					
Title: Test and Evaluation	Articles:	2.000	196.098 -	0.000	0.000	0.000
Description: Non-recurring engineering required to plan for the service life ext and modification necessary to bring DT aircraft fleet to a common configuration to support development and evaluation of improvements driven by changes in as identified in the Electronic Warfare ICD, the Fifth Generation Fighter Modern Capability Development Document (CDD). Execution of all DT activities in support of the service life extraction of the service life extraction and the service life extraction of the service life extraction and modification necessary to bring DT aircraft fleet to a common configuration to support development and evaluation of improvements driven by changes in the service life extraction of the service life extraction of the service life extraction and modification necessary to bring DT aircraft fleet to a common configuration to support development and evaluation of improvements driven by changes in the service life extraction of the s	n. Additional upgrades required the threat environment and nization ICS, and the Block 4					
FY 2018 Plans: Funding will support investment planning and prioritization required to maintain This funding supports the non-recurring engineering (NRE) for capability upgra modifications to include engine, structural and mission systems updates to mai C2D2 efforts. This funding also supports laboratory upgrades required to support capabilities in a relevant environment.	des and service life extension ntain the viability of DT fleet for					
FY 2019 Base Plans: FY19 effort continues in PE 0604840M/N.						
FY 2019 OCO Plans: N/A						
FY 2018 to FY 2019 Increase/Decrease Statement: PE 0604810M/N ending in FY18 and continues in PE 0604840M/N as budget r	moves from BA05 to BA07.					
Accomplishmer	nts/Planned Programs Subtotals	167.902	738.389	0.000	0.000	0.000
0604810M JSF Continuous Ca	pability Development and Delivery	29.691	144.958		-	-
International Continuous Ca	pability Development and Delivery	65.008	150.168		-	
0207142F JSF Continuous Ca	pability Development and Delivery	48.162	299.408	-	-	-
	Navy Subtotals	25.041	143.855	0.000	0.000	0.000

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Exhibit R-2A, RDT&E Project Just	tification: PB	2019 Navy							Date: Fe	bruary 2018	
Appropriation/Budget Activity 1319 / 5				PE 06	-	nent (Numb)Joint Strike oM) - Navy	•		Number/Na 35C C2D2	ame)	
C. Other Program Funding Summ	ary (\$ in Milli	ons)									
			FY 2019	FY 2019	FY 2019					Cost To	
Line Item	FY 2017	FY 2018	Base	oco	<u>Total</u>	FY 2020	FY 2021	FY 2022	FY 2023	Complete	Total Cost
• RDT&E/0604810M/2935:	29.691	144.958	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	358.538
F-35C Follow On											
Modernization - Marine Corps											
International: International	84.602	158.273	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Continuous Capability										•	•
Development and Delivery											
• USAF/FOM/0207142F:	48.162	299.408	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

Remarks

This is a joint program with no executive service. Service Acquisition Executive (SAE) authority alternates between the Department of the Navy and the Department of the Air Force and currently resides with the Navy. Program Element 0604800N/0604800M continues USN development efforts budgeted in 0603800N prior to FY2002. The United Kingdom, Italy, Netherlands, Turkey, Canada, Australia, Denmark, and Norway are participants in the SDD phase of JSF.

PE 0604810M/N ending in FY18 and continies in PE 0604840M/N as budget moves from BA05 to BA07.

D. Acquisition Strategy

USAF Continuous Capability Development and Delivery

The C2D2 acquisition strategy is to employ both Cost and Fixed Price Incentive contracts for the Block 4 engineering and development efforts. A new modernization contract structure will be established for all post SDD Block 4 efforts. In addition, a separate Basic Ordering Agreement or Indefinite Quantity/Indefinite Delivery contract is planned to provide a long term approach to upgrading and maintaining laboratories and test aircraft and supporting technology maturation for future C2D2 capabilities.

E. Performance Metrics

Overall Block 4 Performance Metrics will reflect Key Performance Parameters established in the F-35 Block 4 Capability Development Document.

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

R-1 Program Element (Number/Name)

Project (Number/Name) 2936 / F-35C C2D2

Date: February 2018

Appropriation/Budget Activity 1319 / 5

PE 0604810N I (U)Joint Strike Fighter Follow On Mod (FoM) - Navy

Product Developmen	ıt (\$ in Mi	illions)		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 Contrac
Prime LM TBD (Phase II)	C/CPFF	Lockheed Martin : FT. Worth, TX	0.000	28.140	Feb 2018	276.520	Feb 2018	0.000		-		0.000	0.000	304.660	304.66
Prime LM 14-G-0020(TR3)	C/CPFF	Lockheed Martin : FT Worth, TX	19.660	77.177	Mar 2017	96.025	Feb 2018	0.000		-		0.000	0.000	192.862	768.96
Prime LM BOA 0020 (Nimble Lightning + Pilot Training)	C/CPFF	Lockheed Martin : FT Worth, TX	1.206	3.500	Sep 2017	4.250	Mar 2018	0.000		-		0.000	0.000	8.956	24.67
Prime LM Flight Test Asset	Various	Lockheed Martin : FT Worth, TX	0.000	0.000		37.548	Mar 2018	0.000		-		0.000	0.000	37.548	107.17
Prime LM IDIQ TBD (ECASE)	C/CPFF	Lockheed Martin : FT. Worth, TX	0.000	0.000		15.670	Feb 2018	0.000		-		0.000	0.000	15.670	100.00
Prime LM TBD DTAC Viability	C/CPFF	Lockheed Martin : Ft. Worth, TX	0.000	0.000		65.205	Feb 2018	0.000		-		0.000	0.000	65.205	174.00
Systems Engineering	C/CPFF	Various : Various	0.266	5.076	Dec 2016	17.800	Feb 2018	0.000		-		0.000	0.000	23.142	97.64
Prior Year No Longer Funded in FYDP	Various	Various : Various	144.540	0.000		0.000		0.000		-		0.000	0.000	144.540	-
		Subtotal	165.672	113.893		513.018		0.000		-		0.000	0.000	792.583	N/

Remarks

Block 4 Modernization on R-2A includes Phase II, Nimble Lightning, ECASE & Systems Engineering. Added Prior Year No Longer Funded in FYDP line in Product Development section.

Added Prime LM Phase 0 & Phase I Prior Year amounts to Prior Year No Longer Funded in FYDP line. Deleted Phase O, Phase I and Block 4 Modernization lines.

Support (\$ in Million	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
Development Support	WR	NAWCAD : Patuxent River, MD	7.903	8.195	Dec 2016	15.750	Dec 2017	0.000		-		0.000	0.000	31.848	Continuing
Development Support	WR	NAWCWD : China Lake, CA	0.429	0.600	Dec 2016	8.150	Dec 2017	0.000		-		0.000	0.000	9.179	-

PE 0604810N: (U) Joint Strike Fighter Follow On Mod (F... Navy

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

R-1 Program Element (Number/Name)

Project (Number/Name)

Date: February 2018

1319 / 5

Appropriation/Budget Activity

PE 0604810N I (U)Joint Strike Fighter Follow On Mod (FoM) - Navy

2936 / F-35C C2D2

Support (\$ in Million	ns)			FY	2017	FY 2	2018	FY 2 Ba	2019 ise	FY 2	2019 CO	FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Support	Various	Edwards AFB : Edwards AFB, CA	0.986	0.000		3.802	Dec 2017	0.000		-		0.000	0.000	4.788	-
Development Support	Various	Eglin : Various	0.015	2.250	Dec 2016	3.450	Jan 2018	0.000		-		0.000	0.000	5.715	-
Development Support	Various	Various : Various	7.903	8.682	Dec 2016	8.852	Dec 2017	0.000		-		0.000	0.000	25.437	-
Development Support	MIPR	AFLCMC : Wright Patterson AFB	0.281	1.005	Dec 2016	1.125	Dec 2017	0.000		-		0.000	0.000	2.411	-
		Subtotal	17.517	20.732		41.129		0.000		-		0.000	0.000	79.378	N/A

Test and Evaluation	(\$ in Milli	ons)		FY 2	2017	FY 2	2018	FY 2 Ba	2019 se	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
Developmental Test & Evaluation	WR	NAWCAD : Patuxent River, MD	0.000	0.000		34.995	Feb 2018	0.000		-		0.000	0.000	34.995	-
Developmental Test & Evaluation	WR	NAWCWD : China Lake , CA	0.000	0.000		10.350	Feb 2018	0.000		-		0.000	0.000	10.350	-
Developmental Test & Evaluation Edwards/AFB	Various	Edwards AFB : Edwards AFB, CA	0.000	0.000		25.250	Feb 2018	0.000		-		0.000	0.000	25.250	-
Developmental Test & Evaluation	Various	Various : Various	0.000	0.000		10.250	Feb 2018	0.000		-		0.000	0.000	10.250	-
Operational Test & Evaluation	WR	AFOTEC : Kirtland AFB, NM	0.700	2.000	Feb 2018	12.500	Feb 2018	0.000		-		0.000	0.000	15.200	255.683
		Subtotal	0.700	2.000		93.345		0.000		-		0.000	0.000	96.045	N/A

Remarks

Increase in Test and Evaluation funding due to transfer of Integrated Test Force (ITF) requirements from SDD to C2D2 budget.

PE 0604810N: (U) Joint Strike Fighter Follow On Mod (F... Navy

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

R-1 Program Element (Number/Name)

Project (Number/Name)

Date: February 2018

Appropriation/Budget Activity 1319 / 5

PE 0604810N I (U)Joint Strike Fighter Follow On Mod (FoM) - Navy

2936 / F-35C C2D2

Management Service	es (\$ in M	illions)		FY 2	FY 2017		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
AFLCMC Civilian Pay	Various	AFLCMC CIVPAY : Wright Patterson, AFB	0.000	29.377	Oct 2016	44.700	Oct 2017	0.000		-		0.000	0.000	74.077	-
Financial Mgmt Database Support IDS	Various	Various : Various	0.000	0.000		0.800	Jan 2018	0.000		-		0.000	0.000	0.800	-
Earned Value/Finance/ Cost ACT-I	Various	Various : Various	0.000	0.000		4.500	Jan 2018	0.000		-		0.000	0.000	4.500	-
CIO BOS	Various	Various : Various	0.000	0.000		20.000	Jan 2018	0.000		-		0.000	0.000	20.000	-
Systems System High BOS	Various	Various : Various	0.000	0.000		9.336	Jan 2018	0.000		-		0.000	0.000	9.336	-
Other CIO Services	Various	Various : Various	0.000	0.000		8.239	Jan 2018	0.000		-		0.000	0.000	8.239	-
Travel	Various	Various : Various	0.000	1.900	Oct 2016	3.322	Oct 2017	0.000		-		0.000	0.000	5.222	-
		Subtotal	0.000	31.277		90.897		0.000		-		0.000	0.000	122.174	N/A

Remarks

Increase in Managment Services funding due to transfer of Integrated Test Force (ITF) requirements from SDD to C2D2 budget.

	Prior Years	FY 2	2017	FY 2	018	FY 2 Ba	2019 ase	FY 2	 FY 2019 Total	Cost To	Total Cost	Target Value of Contract
Cost Category Subtotals	183.889	167.902		738.389		0.000		-	0.000	0.000	1,090.180	N/A
0604810M JSF Continuous Capability Development and Delivery	-	29.691		144.958		-		-	-			-
International Continuous Capability Development and Delivery	-	65.008		150.168		-		-	-			-
0207142F JSF Continuous Capability Development and Delivery	-	48.162		299.408		-		-	-			-
Project Cost Totals	183.889	25.041		143.855		0.000		-	0.000	0.000	1,090.180	-

Remarks

Subtotals and totals may not add due to rounding.

Prior Year reflects \$75.951M USAF/\$30.286M USN/\$29.726M USMC/\$47.926M International/Total \$183.889M

PE 0604810N: (U) Joint Strike Fighter Follow On Mod (F... Navy

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Exhibit R-3, RDT&E Project Cost	Analysis: PB 2019 Navy					Date:	February	2018	
Appropriation/Budget Activity 1319 / 5			R-1 Program Ele PE 0604810N / (Follow On Mod (r/ Name) D2	ə)				
	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2	FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
FY 2017 reflects \$ 48.162M USAF/\$ 25.041 FY 2018 reflects \$299.408M USAF/\$143.85									
Fy 2019 reflects continues in PE 060480									

FY 2Q	2017 3Q	4Q		FY 20	18		Fo	E 06 ollow	048 ⁻ , On	10N	I (U))Joir	nt St	rike	er/N Figh	ame ter))	P: 29	roje 936	ct (l / <i>F-</i> :	Num 35C	ber C2L	/ Na i 02	ne)		
		40		FY 20	18		I									R-1 Program Element (Number/Name) PE 0604810N I (U)Joint Strike Fighter Follow On Mod (FoM) - Navy										
2Q	3Q	40	-				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
		1	1Q	2Q	3Q	4Q	1Q	2Q	зQ	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
	CDD (JROC)																									
			IPR ♦	Phase II CA ▲																						
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	Block 4	Pha	ise I																							
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			4.1 SFR																							
		•	•	Block 4 Phase I	Block 4 Phase I	Block 4 Phase I	Block 4 Phase I	Block 4 Phase I	Block 4 Phase I	IPR Phase II CA Block 4 Phase I 4.1 SFR	Block 4 Phase I Block 1 Phase I Block 3 Phase I	Block 4 Phase I Block 4 Phase I A.1 SFR	Block 4 Phase I Block 4 Phase I A.1 SFR	Block 4 Phase I Block 4 Phase I A.1 SFR	Block 4 Phase I Block 4 Phase II A.1 SFR	Block 4 Phase I Block 4 Phase II 4.1 SFR	Block 4 Phase I Block 4 Phase I A.1 SFR	Block 4 Phase II A.1 SFR	Block 4 Phase II A.1 SFR	Block 4 Phase I Block 4 Phase II 4.1 SFR	Block 4 Phase I Block 4 Phase II 4.1 SFR	Block 4 Phase I Block 4 Phase II 4.1 SFR	Block 4 Phase I Block 4 Phase II 4.1 SFR			

PE 0604810N: (U)Joint Strike Fighter Follow On Mod (F... Navy

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy			Date: February 2018
1319/5	` ` `	Project (N 2936 / <i>F-3</i>	umber/Name) 5C C2D2

Schedule Details

	Sta	art	End			
Events by Sub Project	Quarter	Year	Quarter	Year		
Proj 2936						
Requirements: Final CDD (JROC)	3	2017	3	2017		
Acquisition: Block 4 Phase II Contract Award	2	2018	2	2018		
Acquisition: Interim Program Review (IPR) FY18	1	2018	1	2018		
Contracting: Block 4 Phase I	1	2017	2	2018		
Contracting: Block 4 Phase II	2	2018	4	2023		
Systems Engineering: 4.1 System Requirements Review (SRR)	1	2017	1	2017		
Systems Engineering: 4.1 System Functional Review (SFR)	1	2018	1	2018		