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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy										Date: February 2018		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604810M I (U)Joint Strike Fighter Follow On Mod (FoM) - MC							
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	29.691	144.958	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	358.538
2935: JSF Follow On Modernization - Marine Corps	183.889	29.691	144.958	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	358.538
Program MDAP/MAIS Code: 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.												

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B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	74.227	144.958	226.310	-	226.310
Current President's Budget	29.691	144.958	0.000	-	0.000
Total Adjustments	-44.536	0.000	-226.310	-	-226.310
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	0.000	0.000	-226.310	-	-226.310
• Congressional Directed Reductions Adjustments	-44.536	-	-	-	-
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 -\$44.536M 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.					

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy										Date: February 2018		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604810M / (U)Joint Strike Fighter Follow On Mod (FoM) - MC				Project (Number/Name) 2935 / JSF Follow On Modernization - Marine Corps			
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
2935: JSF Follow On Modernization - Marine Corps	183.889	29.691	144.958	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	358.538
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.												
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:							-	-	-	-	-	

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
<p>Description: Block 4 Planning and Systems Engineering preliminarily design and delta System Requirements Review (SRR) for all variants of the F-35 Aircraft. Modernization efforts is the Requirements Decomposition of capabilities for the entire Block 4 upgrade to include sub-blocks 4.1 and 4.2. This is a continuation of the previous Block 4 Requirements Decomposition effort which will include activities leading up to a successful System Functional Review (SFR) and select facility upgrades required for Block 4 research, development, test and evaluation. Included in Block 4 are upgraded capabilities and continuous improvements to maintain Air System viability against evolving threats indicated in the Electronic Warfare Initial Capabilities Document (ICD), the Fifth Generation Fighter Modernization ICD, and the Block 4 Capability Development Document (CDD), reduce life cycle cost, and improve operational suitability. Expected completion of a Block 4.1 Preliminary Design Review (PDR) and a Block 4.2 System Requirements Review (SRR) will address additional Block 4 capabilities requirements. Post-PDR risk reduction, preplanning for subsequent Block 4 Modernization events, and investments to deliver the full Block 4 Air System capabilities are included.</p> <p>FY 2018 Plans: Conduct a Block 4.1 System Functional Review (SFR). Award Phase II contract for Block 4.1 PDR, Block 4.2 SRR , and Post-PDR risk reduction and Planning. Continuing development and maturity of key long lead capabilities and service unique weapons.</p> <p>FY 2019 Base Plans: FY19 effort continues in PE 0604840M/N.</p> <p>FY 2019 OCO Plans: N/A</p> <p>FY 2018 to FY 2019 Increase/Decrease Statement: PE 0604810M/N ending in FY18 and continues in PE 0604840M/N as budget moves from BA05 to BA07.</p>						
<p>Title: Product Development - Technology Refresh 3 (TR-3)</p> <p>Articles:</p> <p>Description: Technology Refresh 3 (TR-3) Design Competition, Development, Integration, and Test. This is the design phase of TR-3 program fully supports Block 3F functionality and allows incorporation of all Block 4 capabilities documented in the System Requirements Document (SRD). TR-3 hardware redesign is required to support 4X processing growth factor based on the current processing estimates for all 3F capabilities. Redesign of TR-3 subsystems (Integrated Core Processor (ICP), Aircraft Memory System (AMS), and Panoramic Cockpit</p>		77.177 -	96.025 -	0.000 -	0.000 -	0.000 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Display (PCD)) configurations will contain new backplane technology, commercial operating systems, and modified middleware necessary to take the design of the TR-3 System through Critical Design Review (CDR). FY 2018 Plans: The TR-3 program will continue design toward Critical Design Review of the Integrated Core Processor (ICP), Panoramic Cockpit Display (PCD), and Aircraft Memory System (AMS). In addition the TR-3 program will prototype the middleware software that will enable F-35's new messaging architecture delivered as part of TR-3 and ensure compatibility with current F-35 sensors. Additionally the initial lab stand up will occur to ensure timely first article delivery to the production line in FY23. 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 moves from BA05 to BA07.						
Title: Infrastructure and Support Costs Articles: Description: Funding will support infrastructure investment planning and other test planning activities required for Block 4 development, integration, test and evaluation. Funding related to the Integrated Test Force, government, and contractor labor. Other costs in support of ranges, chase planes and DT site operations. FY 2018 Plans: Continue development support for defining, managing and acquiring the F-35 capability enhancements identified in approved requirements documents. Transfer of integrated test force requirement to C2D2 as F-35 SDD draws 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:		52.009 -	132.026 -	0.000 -	0.000 -	0.000 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in 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 moves from BA05 to BA07.						
Title: Test and Evaluation		2.000	196.098	0.000	0.000	0.000
Articles:		-	-	-	-	-
Description: Non-recurring engineering required to plan for the service life extension of existing DT aircraft and modification necessary to bring DT aircraft fleet to a common configuration. Additional upgrades required to support development and evaluation of improvements driven by changes in the threat environment and as identified in the Electronic Warfare ICD, the Fifth Generation Fighter Modernization ICS, and the Block 4 Capability Development Document (CDD). Execution of all DT activities in support of Block 4.						
FY 2018 Plans:						
Funding will support investment planning and prioritization required to maintain future development capability. This funding supports the non-recurring engineering (NRE) for capability upgrades and service life extension modifications to include engine, structural and mission systems updates to maintain the viability of DT fleet for C2D2 efforts. This funding also supports laboratory upgrades required to support development and verification of capabilities in a relevant environment.						
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 moves from BA05 to BA07.						
Accomplishments/Planned Programs Subtotals		167.902	738.389	0.000	0.000	0.000
0604810N JSF Continuous Capability Development and Delivery		25.041	143.855	-	-	-
International Continuous Capability Development and Delivery		65.008	150.168	-	-	-
0207142F JSF Continuous Capability Development and Delivery		48.162	299.408	-	-	-
Navy Subtotals		29.691	144.958	0.000	0.000	0.000

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C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• RDT&E/0604810N/2936: F-35C Follow On Modernization - Navy	25.041	143.855	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	352.785
• USAF/FOD/0207142F: USAF Continuous Capability Development and Delivery	48.162	299.408	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	394.593
• International: International Continuous Capability Development and Delivery	84.602	158.273	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	316.896
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 Air Force. 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 continues in PE 0604840M/N as budget moves from BA05 to BA07.											
D. Acquisition Strategy											
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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Product Development (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		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
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	304.660
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	192.862
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	8.956
Prime Flight Test Assets	Various	Various : Various	0.000	0.000		37.548	Mar 2018	0.000		-		0.000	0.000	37.548	37.548
Prime LM ECASE	C/CPFF	Lockheed Martin : FT. Worth, TX	0.000	0.000		15.670	Feb 2018	0.000		-		0.000	0.000	15.670	15.670
Prime LM TBD DT AC Viability	C/CPFF	Lockheed Martin : FT. Worth, TX	0.000	0.000	Sep 2017	65.205	Feb 2018	0.000		-		0.000	0.000	65.205	65.205
Systems Engineering	C/CPFF	Various : Various	0.266	5.076	Dec 2016	17.800	Feb 2018	0.000		-		0.000	0.000	23.142	23.142
Prior Year No Longer Funded in FYDP	Various	Various : Various	144.540	0.000		0.000		0.000		-		0.000	0.000	144.540	144.540
Subtotal			165.672	113.893		513.018		0.000		-		0.000	0.000	792.583	N/A
Remarks															
Block 4 Modernization 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 Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		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	-

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Support (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		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 : Wrighth 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 Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		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	-
Developmental Test Aircraft Viability	WR	AFOTECH : Kirtland AFB, NM	0.700	2.000	Feb 2017	12.500	Feb 2018	0.000		-		0.000	0.000	15.200	-
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.

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Management Services (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		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 Management Services funding due to transfer of Integrated Test Force (ITF)requirements from SDD to C2D2 budget.															
			Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	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
0604810N JSF Continuous Capability Development and Delivery			-	25.041		143.855		-		-		-			-
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	29.691		144.958		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															

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	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract	
FY 2017 reflects \$ 48.162M USAF/\$ 25.041M USN/\$29.691M USMC/\$65.008M International/Total \$167.902M FY 2018 reflects \$299.408M USAF/\$143.855M USN/\$144.958M USMC/\$150.168M International/Total \$738.389M FY 2019 continues in PE 0604840M/N as budget moves from BA05 to BA07.										
R-2A (section B)/R-3 displays total combined program (i.e. not Service-specific), including International partners.										
JSF Continuous Capability Development and Delivery (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): \$1.500 USMC PE 0604800M Project Unit 999 (FY14) : \$1.500										

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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy

Date: February 2018

Appropriation/Budget Activity

1319 / 5

R-1 Program Element (Number/Name)

PE 0604810M I (U)Joint Strike Fighter
Follow On Mod (FoM) - MC

Project (Number/Name)

2935 I JSF Follow On Modernization -
Marine Corps

Proj 2935	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 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
Requirements			CDD (JROC) ◆																									
Acquisition					IPR ◆	Phase II CA ▲																						
Contracting	Block 4 Phase I																											
Systems Engineering	4.1 SRR ◆				4.1 SFR ◆																							

2019PB - 0604810M - 2935

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy			Date: February 2018
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604810M / (U)Joint Strike Fighter Follow On Mod (FoM) - MC	Project (Number/Name) 2935 / JSF Follow On Modernization - Marine Corps	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2935				
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