Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy

R-1 Program Element (Number/Name)

1319: Research, Development, Test & Evaluation, Navy I BA 5: System

PE 0604800N I JT Strike Fighter (JSF) - EMD

Date: March 2014

Development & Demonstration (SDD)

Appropriation/Budget Activity

COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	42,199.538	642.349	440.745	516.456	-	516.456	613.245	525.959	176.407	171.098	Continuing	Continuing
2261: Joint Strike Fighter EMD	42,069.810	624.872	424.253	485.263	-	485.263	537.152	402.492	18.485	1.083	Continuing	Continuing
3194: Joint Reprogramming Center	129.728	17.477	-	-	-	-	-	-	-	-	-	147.205
3352: F-35C Sustainment/ Capability Enhancements	0.000	-	14.992	16.997	-	16.997	16.977	-	-	-	-	48.966
3353: F-35C Follow-on Development	0.000	-	-	14.196	-	14.196	59.116	123.467	157.922	170.015	Continuing	Continuing
9999: Congressional Adds	0.000	-	1.500	-	-	-	-	-	-	-	-	1.500

MDAP/MAIS Code: 198

A. Mission Description and Budget Item Justification

The F-35 Lightning II Fighter program is developing a family of highly common, affordable, next generation, multi-role aircraft to meet the needs of the USMC, USN, USAF and international partners. The three variants are the F-35A Conventional Takeoff and Landing (CTOL); F-35B Short Takeoff and Vertical Landing (STOVL); and the F-35C Carrier Variant (CV). Maximum commonality among the variants, consistent with National Disclosure Policy, will minimize life cycle costs. FY2015 continues development and testing of the F-35. As the initial capabilities are being delivered from the System Development and Demonstration (SDD) program, planning for Follow-on Development (FoD) continues. Capability requirements are being matured and FoD planning continues based upon the approved Fifth Generation Fighter Modernization Initial Capabilities Document (ICD), an approved Electronic Warfare ICD, and the results of an OSD Tiger Team Review. FY14 F-35 FoD activity supports development of Follow-on Development Increment 1 Capability Development Document (CDD). Follow-on Development will provide capability enhancements, required systems upgrades and cost improvements through an incremental acquisition approach.

Additionally, the F-35 JSF Operational Requirements Document (ORD) calls for the F-35A (CTOL) Variant Air Vehicle to have the capabilities and provisions for Dual Capable Aircraft (DCA) operations in the first post SDD block upgrade. DCA refers to the capability to carry and deliver conventional and non-conventional weapons. DCA operation for the F-35A is internal carriage of two B-61s. Due to extensive certification requirements, the DCA capability planning and design will begin in Block 4A and continue through testing and to extensive certification requirements, the DCA capability planning and design will begin in Block 4A and continue through testing and certification in Block 4B.

The United Kingdom, other International Partner nations, and Foreign Military Sales customers are also participants in the JSF program. The program shown here reflects USN, USMC, USAF, and International Partner funding.

PE 0604800N: JT Strike Fighter (JSF) - EMD

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[#] The FY 2015 OCO Request will be submitted at a later date.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

1319: Research, Development, Test & Evaluation, Navy I BA 5: System

PE 0604800N I JT Strike Fighter (JSF) - EMD

Development & Demonstration (SDD)

Funding at the accomplishment/planned program level is reported as the total of all services and partners as these activities support all aircraft variants.

The SDD budget funds a total quantity of 20 RDT&E test articles to include 6 ground test articles and 14 flight test articles for USN and USAF use.

FY07: 1 CTOL flight test article

FY08: 1 STOVL flight test article; 1 STOVL ground test article FY09: 1 STOVL flight test article; 2 CTOL ground test articles

FY10: 6 flight test articles: 3 CTOL, 2 STOVL, 1 CV; 3 ground test articles: 1 STOVL, 2 CV

FY11: 4 flight test articles: 1 CTOL, 1 STOVL, 2 CV

FY13: 1 CV flight test article

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under SDD because it includes those projects that have passed Milestone B approval and are conducting engineering and manufacturing development tasks aimed at meeting validated requirement prior to full-rate production decision.

B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	743.926	534.187	605.174	-	605.174
Current President's Budget	642.349	440.745	516.456	-	516.456
Total Adjustments	-101.577	-93.442	-88.718	-	-88.718
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-94.942			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	1.500			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-21.541	-			
 Rate/Misc Adjustments 	-	-	-88.718	-	-88.718
 Congressional General Reductions 	-56.319	-	-	-	-
Adjustments					
Congressional Directed Reductions Adjustments	-23.717	-	-	-	-

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 9999: Congressional Adds

Congressional Add: JSF Block 4 - USN Cong

FY 2014
1.500

PE 0604800N: JT Strike Fighter (JSF) - EMD

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy		Date: March 2014	
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy I BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD		
Congressional Add Dotails (\$ in Millions, and Includes General Por	fuctions)	EV 2012	EV 2014

propriation/Budget Activity 19: Research, Development, Test & Evaluation, Navy I BA 5: System velopment & Demonstration (SDD)	PE 0604800N / JT Strike Fighter (JSF) - EMD		
Congressional Add Details (\$ in Millions, and Includes General F	Reductions)	FY 2013	FY 2014
	Congressional Add Subtotals for Project: 9999	-	1.50
	Congressional Add Totals for all Projects	-	1.50

PE 0604800N: JT Strike Fighter (JSF) - EMD Navy

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Exhibit R-2A, RDT&E Project Ju	ustification:	PB 2015 N	lavy							Date: Marc	ch 2014	
Appropriation/Budget Activity 1319 / 5			R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD Project (Number/Name) 2261 / Joint Strike Fighter EMD									
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2261: Joint Strike Fighter EMD	42,069.810	624.872	424.253	485.263	-	485.263	537.152	402.492	18.485	1.083	Continuing	Continuing
Quantity of RDT&F Articles	0.000	_	_	_	_	_	_	_	_	_		

^{*} The FY 2015 OCO Request will be submitted at a later date.

Note

Total cost including United States Navy (USN), United States Marine Corps (USMC), International partner contributions and United States Air Force (USAF) funding are: FY13 \$2,528.415M, FY14 \$1,453.860M, and FY15 \$1,514.181M R-2 data reflects variant unique funding only.

R2A table shown above reflects service funding only.

R-2A(section B)/R-3 displays total combined Program (i.e. not Service specific), including International partners.

JSF EMD Includes:

USAF PE 0604800F BPAC 653831 USN PE 0604800N Project Unit 2261 USMC PE 0604800M Project Unit 2262

D&S Includes:

Navy

USAF PE 0604800F BPAC 653832 USN PE 0604800N Project Unit 3352 USMC PE 0604800M Project Unit 3350

JSF Follow on Development Includes: USAF PE 0207142F BPAC 675346 USN 0604800N Project Unit 3353 USMC PE 0604800M Project Unit 3351

JSF Dual Capability Aircraft Includes: USAF PE 0207142F BPAC 676011

PE 0604800N: JT Strike Fighter (JSF) - EMD

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
11	` ` ` '	, ,	umber/Name) nt Strike Fighter EMD

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 USN, USAF, USMC and allies. The three variants are the F-35A Conventional Takeoff and Landing (CTOL); F-35B Short Takeoff and Vertical Landing (STOVL); and the F-35C Aircraft Carrier suitable Variant (CV). The CTOL will be a stealthy multi-role aircraft, primary air-to-ground for the Air Force to replace the F-16 and A-10 and complement the F-22. The STOVL variant will be a multi-role strike fighter aircraft to replace the AV-8B and F/A-18A/C/D for the Marine Corps, replace the Sea Harrier and GR 7 for the United Kingdom, and replace the AV-8 currently employed by the Italian Navy. The Carrier Variant (CV) will provide the Department of the Navy a multi-role, stealthy strike fighter aircraft to complement the F/A-18E/F.

The United Kingdom, other International Partner nations, and Foreign Military Sales customers are also participants in the Joint Strike Fighter program. The program shown here reflects United States Navy (USN), United States Marine Corps, United States Air Force (USAF), and International Partner funding.

The top-line Program Element reflects the unique variant for each Service. Funding at the accomplishment/planned program level is reported as the total of all services and partners as these activities support all aircraft variants.

The SDD budget funds a total quantity of 20 RDT&E test articles to include 6 ground test articles and 14 flight test articles for USN and USAF use.

FY07: 1 CTOL flight test article

FY08: 1 STOVL flight test article; 1 STOVL ground test article FY09: 1 STOVL flight test article; 2 CTOL ground test articles

FY10: 6 flight test articles: 3 CTOL, 2 STOVL, 1 CV; 3 ground test articles: 1 STOVL, 2 CV

FY11: 4 flight test articles: 1 CTOL, 1 STOVL, 2 CV

FY13: 1 CV flight test article

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: System Development and Demonstration (SDD)	1,667.182	458.938	667.565
Articles	-	-	-
Description: SDD execution of the Air System (Lockheed Martin) including International Commonality Effort; includes airframe, vehicle and mission systems, autonomic logistics, systems engineering & test efforts.			
FY 2013 Accomplishments: Continue SDD execution of Air System (Lockheed Martin), including International Commonality Effort. Efforts include airframe, vehicle systems, mission systems, autonomic logistics, systems engineering, and integrated test efforts.			
FY 2014 Plans:			

PE 0604800N: JT Strike Fighter (JSF) - EMD

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: M	arch 2014	
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD		Project (Number/Name) 2261 I Joint Strike Fighter EMD		
B. Accomplishments/Planned Programs (\$ in Millions, Article	Quantities in Each)		FY 2013	FY 2014	FY 2015
Continue SDD execution of Air System Lockheed Martin, including vehicle systems, mission systems, autonomic logistics, systems e with planned completion of SDD in 2018.					
FY 2015 Plans: Continue SDD execution of Air System Lockheed Martin, including vehicle systems, mission systems, autonomic logistics, systems e with planned completion of SDD in 2018.					
Title: F135 Propulsion System	rticles:	340.219	359.749	229.17	
Description: SDD execution of the F135 Propulsion System (Prattesting, autonomic logistics, integration & performing technology n	tt & Whitney) including International Commonality Effort; ir			-	
FY 2013 Accomplishments: Continue SDD execution of F135 Propulsion System (Pratt & White and performing technology maturation efforts.	tney), including engine testing, autonomic logistics, integra	ation			
FY 2014 Plans: Continue SDD execution of the F135 Propulsion System with Pratintegration and performing technology maturation efforts.	tt & Whitney that includes engine testing, autonomic logisti	cs,			
FY 2015 Plans: Continue SDD execution of the F135 Propulsion System with Pratintegration and performing technology maturation efforts.	tt & Whitney that includes engine testing, autonomic logisti	cs,			
Title: Systems Engineering (SE)	A	rticles:	50.495 -	36.395	29.90 ⁻
Description: SDD SE including systems operations requirements requirements integration, and interoperability support.					
FY 2013 Accomplishments: Continue SDD SE that includes systems operations requirements interoperability support.	analysis, program integration, requirements integration, a	nd			
FY 2014 Plans:					

PE 0604800N: *JT Strike Fighter (JSF) - EMD* Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: M	arch 2014	
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD		Project (Number/Name) 2261 / Joint Strike Fighter EMD		
B. Accomplishments/Planned Programs (\$ in Millions, Article Qւ		FY 2013	FY 2014	FY 2015	
Continued SDD SE that includes systems operations requirements a interoperability support.	nalysis, program integration, requirements intergration	and			
FY 2015 Plans: Continue SDD SE, including systems operations requirements analysinteroperability support.	sis, program integration, requirements integration, and				
Title: Development Test and Evaluation (DT&E)	A	rticles:	360.658 -	464.985 -	477.990 -
Description: Government DT&E/Operational Testing (OT) in suppor Elements of DT&E include preparation for flight testing and weapons					
FY 2013 Accomplishments: Continue government DT&E/OT in support of test aircraft. Continue expand air vehicle envelope and support mission systems testing (in for flight testing, weapons integration testing, and component capabilities).	clude initial Block 2B). Elements of DT&E include prepa				
FY 2014 Plans: Continue government DT&E/OT in support of test aircraft. Continue expand air vehicle envelope and support mission systems testing (in for flight testing, weapons integration testing, and component capabil	clude initial Block 2B). Elements of DT&E include prepa				
FY 2015 Plans: Continue government DT&E in support of test aircraft. Continue flight expand air vehicle envelope and support mission systems testing. Etesting, and component capabilities testing.			n		
Title: Development Support	A	rticles:	109.861	133.793	109.550 -
Description: SDD Support efforts for airframe, air vehicle systems, rautonomic logistics development activities.	mission systems, weapons integration, mission support	, and			
FY 2013 Accomplishments: Continue SDD support efforts for airframe, air vehicle systems, missi autonomic logistics development activities.	on systems, weapons integration, mission support, and	I			
FY 2014 Plans:					

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Exhibit R-2A, RDT&E Project Just	ification: PB	2015 Navy							Date: Ma	arch 2014	
Appropriation/Budget Activity 1319 / 5						ment (Numb Strike Figh			(Number/Na loint Strike F	,	
B. Accomplishments/Planned Pro	grams (\$ in	Millions, Ar	ticle Quantit	ies in Each	1)				FY 2013	FY 2014	FY 2015
Continue SDD support efforts for air autonomic logistics development ac services.	frame, air ve	hicle system	s, mission sy	stems, wea	pons integra			d		-	
FY 2015 Plans: Continue SDD support efforts for air autonomic logistics development ac services.				se is due to	across the b	oard reducti	on between I	both			
				Acco	mplishment	s/Planned F	Programs Su	ıbtotals	2,528.415	1,453.860	1,514.18
	RDT&E,AF 0604800F									612.254	535.42
						Interna	tional Partne	er (SDD)	148.772	18.030	6.43
					RE	T&E,N (USI	MC) 0604800)M/2262	639.059	399.323	487.06
							Navy Su	ubtotals	624.872	424.253	485.26
C. Other Program Funding Summ	ary (\$ in Mill	ions)	FY 2015	FY 2015	FY 2015					Cost To	
Line Item	FY 2013	FY 2014	Base	000	Total	FY 2016	FY 2017	FY 2018	FY 2019	Complete	Total Co
• RDT&E/0604800F: Joint Strike Fighter SDD	1,115.712	612.254	535.420	-	535.420	522.575	327.100	115.413	5.250	-	22,021.7
International: International Partner (SDD/FOD)	148.772	18.030	6.430	-	6.430	2.600	8.080	3.040	-	-	4,949.5
• APAF/0207142F: <i>F-</i> 35 Joint Strike Strike Fighter	2,532.184	2,889.602	3,553.046	-	3,553.046	5,138.558	5,262.325	5,943.415	5 5,770.781	148,305.40	0192,028.4
• RDT&E/0604800M/2262: JT Strike Fighter (JSF) - EMD	639.059	399.323	487.068	-	487.068	525.008	393.609	84.467		-	3,703.20
• APN/0605B: F-35 Joint Strike Fighter STOVL Spares	91.752	41.707	85.194	-	85.194	111.105	65.194	153.914		Continuing	
 APN/0147C: F-35 Joint Strike Fighter CV AP 	30.699	79.016	29.400	-	29.400	73.800	123.000	196.768		3,605.667	
 APN/0605C: F-35 Joint Strike Fighter CV Spares 	26.089	42.060	28.200	-	28.200	28.200	136.134	101.997		Continuing	
• MC/0207142F: USAF MILCON	13.513	23.500	39.900	-	39.900	14.900	3.250	61.000	-	Continuing	Continuir

PE 0604800N: *JT Strike Fighter (JSF) - EMD* Navy

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Exhibit R-2A, RDT&E Project Justin	ilcation: Pb	2015 Mavy		D 4 D	rogram Fla	mant /Numb	acr/Nama)	Droinet /		rch 2014	
Appropriation/Budget Activity 1319 / 5						ment (Numl Strike Figh			Number/Na oint Strike Fi		
C. Other Program Funding Summa	ry (\$ in Mill	ions)									
			FY 2015	FY 2015	FY 2015					Cost To	
<u>Line Item</u>	FY 2013	FY 2014	<u>Base</u>	<u>oco</u>	<u>Total</u>	FY 2016	FY 2017	FY 2018		Complete	
 APAF/0204142F: USAF 	80.715	126.777	187.646	-	187.646	221.826	250.178	254.903	262.733	Continuing	Continuing
Modification Funding											
• FOD/0207142F 675346:	-	3.000	28.051	-	28.051	117.812	244.464	313.398	336.942	-	1,043.667
USAF Follow-on Development											
 0207142F/USAF: USAF Spares 	163.151	89.050	236.418	-	236.418	270.431	278.552	380.165	457.051	Continuing	Continuinç
 OPN/4267: Logistics 	2.824	3.427	-	-	-	-	-	-	-	-	6.251
Information System (ALIS)											
• USAF/OPAF PE 27142F: <i>OPAF</i>	338.000	1.431	4.463	-	4.463	3.858	2.333	2.374	2.415	Continuing	Continuing
 APN/0592: F-35 STOVL Series 	-	111.158	285.968	-	285.968	278.596	173.231	178.035	181.759	Continuing	Continuing
 APN/0593: F-35 CV Series 	_	29.950	20.502	-	20.502	37.336	47.953	51.409	53.388	Continuing	Continuing
RDT&E/0604800M/3350:	_	14.904	11.980	-	11.980	11.952	-	-	_	-	38.83
F-35B Sustainment/											
Capability Enhancements											
• RDT&E/0604800M/3351:	-	_	13.973	-	13.973	59.885	120.644	157.796	168.923	-	521.221
F-35B Follow-on Development											
• USAF SDD BP 653832:	14.167	16.200	32.593	-	32.593	29.657	-	_	_	-	92.617
Deployability and											
Suitability Enhancements											
• PAF/0207142F: JSF CTOL	293.400	339.533	291.880	_	291.880	438.808	528.560	522.180	497.720	18,140.460	22.285.046
Advance Procurement										,	,
• DCA/0207142F 676011:	_	_	15.615	_	15.615	_	_	_	_	_	15.61
Dual Capable Aircraft (DCA)											
• APN/0147: <i>F-35</i>	808.000	1,028.415	610.652	_	610.652	629.916	1.135.967	1.394.026	1.974.142	30,575.452	47.756.623
Joint Strike Fighter CV		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,	.,	,	,
• APN/0152C: <i>F-35 Joint</i>	98.061	103.195	143.885	_	143.885	203.057	226.014	136.732	139.330	3,044.411	4.836.075
Strike Fighter STOVL AP	00.001	100.100			1 10.000	200.007		100.102	.00.000	0,0 1 11 1 1	1,000.01
• APN/0152: <i>F-35 Joint</i>	1,094.421	1,176.498	1,200.410	_	1,200.410	1 451 916	2,061.990	2 726 113	2 810 778	27 238 439	41 455 992
Strike Fighter STOVL	.,00 1	.,	.,2000		.,2000	.,	_,001.000	_,0	_,0.00	,	, 100.002
• USN MILCON: USN JSF MILCON	117.600	209.000	320.500	_	320.500	151.700	48.100	_	169.700	660.900	2,259.300
• RDT&E/0604800N/3194: USN USRL	17.477	-	-	-	-	-	-	-	-	-	147.205

PE 0604800N: *JT Strike Fighter (JSF) - EMD* Navy

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			•	•	,	, ,	Number/Na	,	
		PE 0	604800N / <i>J</i>	T Strike Fight	ter (JSF) -	2261 <i>I Jc</i>	oint Strike Fig	ghter EMD	
		EMD)						
lillions)									
	FY 2015	FY 2015	FY 2015					Cost To	
3 FY 2014	Base	000	<u>Total</u>	FY 2016	FY 2017	FY 2018	FY 2019	Complete	Total Cost
1,924.048	3,205.900	-	3,205.900	6,109.330	7,280.752	6,686.294	4,192.377	-	34,149.323
1		FY 2015 13 FY 2014 Base	PE 0 EMD Millions) FY 2015 FY 2015 13 FY 2014 Base OCO	PE 0604800N / J' EMD Millions) FY 2015 FY 2015 FY 2015 13 FY 2014 Base OCO Total	PE 0604800N / JT Strike Fight EMD Millions) FY 2015 FY 2015 Total FY 2016	Millions) FY 2015 FY 2015 13 FY 2014 Base OCO Total FY 2016 FY 2017	PE 0604800N / JT Strike Fighter (JSF) - 2261 / Jo Millions) FY 2015 FY 2015 TOTAL FY 2016 FY 2017 FY 2018	PE 0604800N / JT Strike Fighter (JSF) - 2261 / Joint Strike Fightens) Millions) FY 2015 FY 2015 FY 2015 13 FY 2014 Base OCO Total FY 2016 FY 2017 FY 2018 FY 2019	PE 0604800N / JT Strike Fighter (JSF) - 2261 / Joint Strike Fighter EMD Millions) FY 2015 FY 2015 FY 2015 Cost To 13 FY 2014 Base OCO Total FY 2016 FY 2017 FY 2018 FY 2019 Complete

6.016

26.800

3.946

35.500

2.262

11.400

4.122

74.850

3.969

29.723

9.408

Continuing Continuing

Remarks

D. Acquisition Strategy

OPN/4268: Logistics

Information System (ALIS) • MC/0207597F: USAF MILCON

The SDD program consists of a cost-reimbursement contract awarded to Lockheed Martin Aeronautics Company to develop the F-35 Air System, consisting of three aircraft variants and its associated logistics support system, for the U.S. Services and international participants. Similarly, a cost-reimbursement contract was awarded to Pratt & Whitney to develop the F135 propulsion system. Ground and flight testing will be conducted during development to accomplish validation and verification, with the extensive use of modeling and simulation to offset the risk of this large, complex, and concurrent lifecycle program. A comprehensive logistics support environment, including an integrated training system for aircrew, maintenance, and support personnel, is also being developed.

On 25 April 2011, the Department of Defense terminated the development of the General Electric Rolls-Royce Fighter Engine Team F136 propulsion system.

6.016

26.800

32.500

The F-35 Program has made international involvement a key element of the acquisition strategy. This includes international partnership in the development, production, and sustainment phases of the lifecycle. Additional international participation includes Foreign Military Sales arrangements.

In Fiscal Year 2007, separate cost-type contracts were awarded to Lockheed Martin Aeronautics Company and Pratt & Whitney to begin low rate initial production for F-35 air vehicles, propulsion systems, and sustainment for the fielded systems. Transition to fixed-price-type contracts occurred with the fourth low rate lot. To provide logistics support for delivered aircraft, Performance-Based Logistics cost-type contracts will be awarded to Lockheed Martin Aeronautics Company and Pratt & Whitney.

At the completion of Low Rate Initial Production, a Defense Acquisition Board review, and Milestone Decision Authority approval, the F-35 Program will enter Full Rate Production. Fixed-price procurement contracts will be awarded for F-35 air vehicles and propulsion systems for the U.S. Services and international participants.

E. Performance Metrics

The following are the key performance parameters from the F-35 Selected Acquisition Report dated 31 December 2012:

Performance Metrics reflect Key Program Performance data.

Combat Radius

PE 0604800N: JT Strike Fighter (JSF) - EMD

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Navy

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy Date: March 2014

Appropriation/Budget Activity

R-1 Program Element (Number/Name) PE 0604800N I JT Strike Fighter (JSF) -1319 / 5 **EMD**

Project (Number/Name) 2261 I Joint Strike Fighter EMD

Conventional Take Off and Landing Does Not Meet Requirement

Carrier Variant (CV) Meets Tripwire Requirement

Short Take Off Vertical Landing (STOVL) Meets/Exceeds Tripwire Requirement

CV Recovery

Maximum Approach Speed Meets Requirement In Tripwire Band

STOVL Performance

Flat Deck (High-High Profile Fuel) Meets Requirement In Tripwire Band

Ski Jump (High-Medium-Medium-High Profile Fuel) Meets Requirement In Tripwire Band

Vertical Landing Bring Back Meets Requirement In Tripwire Band

Interoperability

Net Ready Criteria- Meets Requirement In Tripwire Band

Radio Frequency Signature Meets/Exceeds Tripwire Requirement

Force Protection

CB Pilot Protection (New Key Performance Parameters Per CN3) - Meets/Exceeds Tripwire Requirement

Mission Reliability

Conventional Take Off and Landing (CTOL) Meets/Exceeds Tripwire Requirement

Carrier Variant (CV) Exceeds Operational Requiremets Document Objective

Short Takeoff and Vertical Landing (STOVL) United States Marine Corps (USMC) Meets/Exceeds Tripwire Requirement

STOVL United Kingdom (UK) Meets/Exceeds Tripwire Requirement

Sortie Generation Rate

CTOL Meets/Exceeds Tripwire Requirement

CV Meets/Exceeds Tripwire Requirement

STOVL USMC Meets/Exceeds Tripwire Requirement

STOVL UK Meets/Exceeds Tripwire Requirement

Logistics Footprints

Navy

CTOL Meets/Exceeds Tripwire Requirement

STOVL USMC Meets/Exceeds Tripwire Requirement

PE 0604800N: JT Strike Fighter (JSF) - EMD

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity R-1 Program Eler	ment (Number/Name) Project (N	lumber/Name)
	Strike Fighter (JSF) - 2261 I Join	nt Strike Fighter EMD
EMD		

Logistics Footprint- Volume CV Exceeds Operational Requiremets Document (ORD) Objective STOVL USMC Exceeds ORD Objective STOVL UK Meets/Exceeds Tripwire Requirement

Logistics Footprint-Weight CV Exceeds ORD Objective STOVL USMC Exceeds ORD Objective STOVL UK Meets/Exceeds Tripwire Requirement

PE 0604800N: *JT Strike Fighter (JSF) - EMD* Navy

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy

Appropriation/Budget Activity

1319 / 5

R-1 Program Element (Number/Name)

PE 0604800N I JT Strike Fighter (JSF) -

EMD

Project (Number/Name)

2261 I Joint Strike Fighter EMD

Date: March 2014

Product Developmer	nt (\$ in M	illions)		FY 2	2013	FY 2	2014		2015 ase		2015 CO	FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Lockheed Martin - SDD	C/CPAF	Lockheed Martin : Ft. Worth, TX	29,342.589	1,665.258	Oct 2012	458.938	Dec 2013	667.564	Dec 2014	-		667.564	1,758.561	33,892.910	33,892.91
Lockheed Martin - IDIQ D0022	SS/IDIQ	Lockheed Martin : Ft. Worth, TX	26.477	1.327	Oct 2012	-		-		-		-	-	27.804	27.804
Lockheed Martin 09- D-0005	SS/IDIQ	Lockheed Martin : Ft. Worth, TX	0.903	0.597	Nov 2012	-		-		-		-	-	1.500	1.500
Lockheed Martin - IDIQ D0009	SS/IDIQ	Lockheed Martin : Ft. Worth, TX	16.759	-		-		-		-		-	-	16.759	16.759
Lockheed Martin - BOA	SS/BOA	Lockheed Martin : Ft. Worth, TX	3.511	-		-		-		-		-	-	3.511	3.511
Pratt and Whitney - SDD	C/CPAF	Pratt and Whitney : Hartford, CT	7,184.247	340.219	Oct 2012	359.749	Dec 2013	229.175	Dec 2014	-		229.175	259.821	8,373.211	8,373.211
Pratt and Whitney - Close Out Contract C0132	C/CPFF	Pratt and Whitney : Hartford, CT	1.364	-		-		-		-		-	-	1.364	1.364
Pratt and Whitney - Close Out Contract C0050	SS/CPFF	Pratt and Whitney : Hartford, CT	2.211	-		-		-		-		-	-	2.211	2.211
Pratt and Whitney - BOA	SS/BOA	Pratt and Whitney : Hartford, CT	35.983	-		-		-		-		-	-	35.983	35.983
Pratt and Whitney - IDIQ	SS/IDIQ	Pratt and Whitney : Hartford, CT	10.925	-		-		-		-		-	-	10.925	10.925
General Electric - SDD	SS/CPAF	FET : Cincinnati, OH	2,160.573	-		-		-		-		-	-	2,160.573	2,160.573
General Electric - IDIQ D0009	SS/IDIQ	FET : Cincinnati, OH	0.264	-		-		-		-		-	-	0.264	0.264
General Electric - IDIQ D0074	SS/IDIQ	FET : Cincinnati, OH	4.175	-		-		-		-		-	-	4.175	4.175
General Electric - F136 Transition	SS/CPFF	FET : Cincinnati, OH	100.400	-		-		-		-		-	-	100.400	100.400
General Electric - BOA	SS/BOA	FET : Cincinnati, OH	5.548	-		-		-		-		-	-	5.548	5.548
General Electric - Phase IIIb	SS/CPAF	FET : Cincinnati, OH	382.753	-		-		-		-		-	-	382.753	382.753
Systems Engineering	Various	Various : Various	339.051	39.434	Nov 2012	32.188	Nov 2013	25.671	Nov 2014	-		25.671	72.732	509.076	509.076
		Subtotal	39,617.733	2,046.835		850.875		922.410		-		922.410	2,091.114	45,528.96	45,528.96

PE 0604800N: JT Strike Fighter (JSF) - EMD Navy

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy

R-1 Program Element (Number/Name)

Project (Number/Name)

Appropriation/Budget Activity 1319 / 5

PE 0604800N I JT Strike Fighter (JSF) -

2261 I Joint Strike Fighter EMD

Date: March 2014

EMD

Support (\$ in Millions	s)			FY 2	2013	FY 2	2014		2015 ise	FY 2	2015 CO	FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
AFFTC/Eglin	Various	Eglin AFB : Eglin, FL	104.588	7.702	Oct 2012	5.416	Nov 2013	8.613	Nov 2014	-		8.613	8.890	135.209	-
ASC/AFRL	Various	ASC/AFRL : Wright Patterson AFB, OH	56.631	4.507	Oct 2012	2.525	Nov 2013	1.548	Nov 2014	-		1.548	2.775	67.986	-
Bolling AFB	Various	Bolling AFB : Washington, DC	6.775	-		-		-		-		-	-	6.775	-
DMEA	Various	DMEA : Wright Patterson AFB, OH	5.630	-		-		-		-		-	-	5.630	-
ESC	Various	ESC : Hanscom AFB, MA	7.103	-		-		-		-		-	-	7.103	-
AEDC/Fuel	Various	Various : Various	149.426	17.375	Nov 2012	18.753	Nov 2013	17.215	Nov 2014	-		17.215	11.995	214.764	-
NADEP Jacksonville	Various	NADEP : Jacksonville, FL	9.525	-		-		-		-		-	-	9.525	-
Miscellaneous	Various	Various : Various	76.845	13.959	Nov 2012	37.488	Nov 2013	28.736	Nov 2014	-		28.736	40.063	197.091	-
NAWC China Lake	Various	NAWC WD : China Lake, CA	110.595	7.340	Nov 2012	20.710	Nov 2013	15.187	Nov 2014	-		15.187	21.398	175.230	-
NAWC Patuxent River	Various	NAWC AD : Patuxent River, MD	318.273	35.749	Nov 2012	29.621	Nov 2013	29.368	Nov 2014	-		29.368	42.931	455.942	-
NAWC TSD	Various	NAWC TSD : Orlando, FL	11.609	-		-		-		-		-	-	11.609	-
NSWC	Various	Various : Various	3.813	-		-		-		-		-	-	3.813	-
SPAWAR	Various	Various : Various	8.434	-		-		-		-		-	-	8.434	-
DFAS	Various	Various : Various	0.000	-		-		-		-		-	-	-	-
SBIR Technology Insertion Congressional Add	Various	Various : Various	24.187	-		-		-		-		-	-	24.187	-
		Subtotal	893.434	86.632		114.513		100.667		-		100.667	128.052	1,323.298	-

PE 0604800N: JT Strike Fighter (JSF) - EMD

Navy

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy

Appropriation/Budget Activity

1319 / 5

R-1 Program Element (Number/Name)

PE 0604800N I JT Strike Fighter (JSF) -

Project (Number/Name)

2261 / Joint Strike Fighter EMD

Date: March 2014

Test and Evaluation	(\$ in Milli	ons)		FY 2	2013	FY 2	2014		2015 ise	FY 2	2015 CO	FY 2015 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
NAWC China Lake	Various	NAWC WD : China Lake, CA	31.523	3.690	Nov 2012	3.820	Nov 2013	4.971	Nov 2014	-		4.971	14.913	58.917	-
NAWC Patuxent River	Various	NAWC AD : Patuxent River, MD	404.071	115.715	Nov 2012	153.350	Nov 2013	183.426	Nov 2014	-		183.426	172.360	1,028.922	-
Edwards AFB	Various	Edwards AFB : Edwards AFB, CA	407.325	77.419	Nov 2012	130.000	Nov 2013	100.775	Nov 2014	-		100.775	108.049	823.568	-
Other (including Classified PIDs)	Various	Various : Various	55.605	63.637	Nov 2012	61.803	Nov 2013	69.754	Nov 2014	-		69.754	77.756	328.555	-
WEPS/Eglin	Various	WEPS/Eglin : Various	27.829	-		-		-		-		-	-	27.829	-
JTIC	Various	Various : Various	0.000	-		-		-		-		-	-	-	-
OT-AFOTEC/AFFC	Various	OT-AFOTEC/ AFFTC: Kirkland AFB, NM/Eglin AFB, FL	107.802	12.152	Nov 2012	32.740	Nov 2013	89.876	Nov 2014	-		89.876	287.252	529.822	-
OT-JITC/OPTEV	Various	OT-JITC/OPTEC : Various	6.211	11.721	Oct 2012	-		-		-		-	-	17.932	-
		Subtotal	1,040.366	284.334		381.713		448.802		-		448.802	660.330	2,815.545	-

Management Service	s (\$ in M	illions)		FY 2	2013	FY 2	2014	FY 2 Ba	2015 ise	FY 2		FY 2015 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
Business Integration - Cost ACT I	SS/CPFF	ACT I : Arlington, VA	8.604	2.334	Dec 2012	3.248	Dec 2013	3.362	Dec 2014	-		3.362	-	17.548	17.548
Security Mantech	C/FP	Mantech : Arlington, VA	57.282	8.617	Dec 2012	11.600	Dec 2013	-		-		-	-	77.499	77.499
Business Integ - Acq PA Cons	Various	Various : Various	0.000	-		-		-		-		-	-	-	-
Autolog - SEIT DRC	C/CPFF	DRC : Arlington, VA	2.573	-		-		-		-		-	-	2.573	2.573
Chief Engineer - First Principles	C/CPFF	First Principles : Arlington, VA	5.004	1.836	Nov 2012	1.928	Dec 2013	2.024	Dec 2014	-		2.024	2.024	12.816	12.816

PE 0604800N: JT Strike Fighter (JSF) - EMD

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy

Appropriation/Budget Activity

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R-1 Program Element (Number/Name)

PE 0604800N / JT Strike Fighter (JSF) -

EMD

Date: March 2014

Project (Number/Name)

2261 I Joint Strike Fighter EMD

Management Servic	es (\$ in M	illions)		FY 2	2013	FY	2014	FY 2 Ba	2015 ise		2015 CO	FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
ASC Civilian Pay	Various	ASC CIVPAY : Wright Patterson, AFB, OH	14.654	24.092	Oct 2012	18.586	Oct 2013	24.225	Oct 2014	-		24.225	36.450	118.007	-
Operations Wyle	C/CPFF	Wyle : Arlington, VA	102.871	23.500	Dec 2012	24.884	Dec 2013	-		-		-	-	151.255	151.255
Operations SAFTAS	C/CPAF	Saftas : Arlington, VA	122.263	20.707	Dec 2012	17.350	Dec 2013	-		-		-	-	160.320	160.320
Operations CGI BOSS	C/CPAF	Stanley : Arlington, VA	181.370	20.707	Oct 2012	24.604	Dec 2013	-		-		-	-	226.681	226.681
GE F136 Congressional Studies	Various	Various : Various	0.800	-		-		-		-		-	-	0.800	0.800
Travel and Misc	Various	Various : Various	15.771	1.736	Dec 2012	4.559	Nov 2013	1.816	Dec 2014	-		1.816	5.252	29.134	-
Facilities BOSS	Various	Various : Various	7.085	7.085	Oct 2012	-		10.875	Oct 2014	-		10.875	34.027	59.072	-
		Subtotal	518.277	110.614		106.759		42.302		-		42.302	77.753	855.705	-

Remarks

Cumulative Award Fee earned in prior years for Stanley is 99%.

	Prior Years	FY 2	2013	FY 2	014	1	2015 Ise		2015 CO	FY 2015 Total	Cost To	Total Cost	Target Value of Contract
Cost Category Subtotals	42,069.810	2,528.415		1,453.860		1,514.181		-		1,514.181	2,957.249	50,523.515	i -
RDT&E,AF 0604800F	-	1,115.712		612.254		535.420		-		535.420			-
International Partner (SDD)	-	148.772		18.030		6.430		-		6.430			-
RDT&E,N (USMC) 0604800M/2262	-	639.059		399.323		487.068		-		487.068			-
Project Cost Totals	42,069.810	624.872		424.253		485.263		-		485.263	2,957.249	50,523.515	i -

Remarks

NOTE 1: Prior Years reflect \$18,788.057M USAF/\$17,355.294M USN/\$1,163.836 USMC /\$4,762.623M International/Total \$42,069.810M

FY 2013 reflects \$1,115.712 USAF/\$624.872M USN/\$639.059M USMC/\$148.772M International/Total \$2,528.415M

FY 2014 reflects \$612.254M USAF/\$424.253M USN/\$399.323M USMC/\$18.030M International/Total \$1,453.860M

FY 2015 reflects \$535.420M USAF/\$485.263 USN/\$487.068M USMC/\$6.430M International/Total \$1,514.181M

PE 0604800N: *JT Strike Fighter (JSF) - EMD* Navy

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2	2015 Nav	y		,			Date:	March 20	14	
Appropriation/Budget Activity 1319 / 5			_	ement (Number/N JT Strike Fighter (J	•	Project 2261 / J	•	r/ Name) e Fighter l	EMD	
	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract

NOTE 2:R-2A/R-3 displays total combined program (i.e. not Service-specific), including International partners. Funding for JSF Engineering and Manufacturing Development (EMD) and JSF Deployability and Suitability Enhancements (D&S).

JSF EMD Includes:

USAF PE 0604800F BPAC 653831 USN PE 0604800N Project Unit 2261 USMC PE 0604800M Project Unit 2262

D&S Includes:

USAF PE 0604800F BPAC 653832 USN PE 0604800N Project Unit 3352 USMC PE 0604800M Project Unit 3350

JSF Follow on Development Includes: USAF PE 0207142F BPAC 675346 USN FY13 PE 0604800N Project Unit 2261 USN FY14 PE 0604800N Project Unit 3353 USMC FY13 PE 0604800M Project Unit 2262 USMC FY14 PE 0604800M Project Unit 3351

PE 0604800N: *JT Strike Fighter (JSF) - EMD* Navy UNCLASSIFIED
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Exhibit R-4, RDT&E Schedule Propropriation/Budget Activity	Jille.			- 1401	y					Р	1 Progr	am I	Elon	ont f	Num	hor/N	lama	<u>,,</u>	Dra	nio ot	(Nun			2014	
1319 / 5										PE	1 Progr 5 060480 MD													er EMD	
																_							_		
JSF Variants - CV, STOVL & CTO		FY 2Q	201: 3Q			FY 2 2Q		4Q 1		FY 20	15 4Q	1Q		2016 3Q	4Q		FY 2		IQ 10		/ 2018 3Q			FY 2019	4Q
Acquisition Milestones											STOVL IOC			İ	CTOL IOC							CV IOC			
Test & Evaluation		ock 2				\dagger			\dagger		-		1		_		+		\dagger	+		-			
				В	lock	2B [T&E	/Cerl	'	'		ii	i	i		Ιİ		ı			İ	i	i i	i	
	İ						Bloo	ck 3I	DT&E	E/Cert	-	Ιİ	İ	i		Ιİ	i	i	İ	İ	İ	İ	i i	i	i
	İ	i		ĺ	П	П					Blo	ck 3F	ρţ	&E/C	ert	' '	'	'			i	İ	Ιİ	i	i
	İ	i i		ĺ	Ιİ	j	j				Initi	al Op	erat	ional	Test a	and E	valua	ation	(IOT	ŝĖ)	'	'	j i	i	i
Defense Acquisition Reviews				IPR FY13			PR Y14			IPR FY15	5			IPR Y16			F	RP Y17			IPR FY18			IPR FY19	
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft)					LRIP	6 (3	6)	P7	(29)																
	-	Н			I I						LRIP 8 (29)		ı											
	-					Т	-	Т	Т					LRIP	9 (42)		_	ı	ı	ı					
	-					-	l			Τ	ī						LF	RIP 1	0 (62	2)	-	ı	1 1	-	
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2015PB - 0604800N - 2261	'	' '			' '	'	'	'	'	'	'	' '	'	'		' '	'	'	'	'	'	'	· –		

PE 0604800N: *JT Strike Fighter (JSF) - EMD* Navy

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy			Date: March 2014
Appropriation/Budget Activity 1319 / 5	,	- , (umber/Name) t Strike Fighter EMD

Schedule Details

	Sta	art	Er	ıd
Events by Sub Project	Quarter	Year	Quarter	Year
JSF Variants - CV, STOVL & CTOL				
Acquisition Milestones: STOVL Initial Operational Capability	4	2015	4	2015
Acquisition Milestones: CTOL Initial Operational Capability	4	2016	4	2016
Acquisition Milestones: CV Initial Operational Capability	4	2018	4	2018
Test & Evaluation: Test and Evaluation: Block 2A DT&E/Cert	1	2013	3	2013
Test & Evaluation: Test and Evaluation: Block 2B DT&E/Cert	2	2013	3	2015
Test & Evaluation: Test and Evaluation: Block 3I DT&E/Cert	1	2014	4	2015
Test & Evaluation: Test and Evaluation: Block 3F DT&E/Cert	4	2014	4	2017
Test & Evaluation: Test and Evaluation: Initial Operational Test and Evaluation (IOT&E)	2	2015	4	2018
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-13	4	2013	4	2013
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-14	3	2014	3	2014
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-15	3	2015	3	2015
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-16	3	2016	3	2016
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-17	3	2017	3	2017
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-18	3	2018	3	2018
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-19	3	2019	3	2019

PE 0604800N: *JT Strike Fighter (JSF) - EMD* Navy

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy

Appropriation/Budget Activity

1319 / 5

R-1 Program Element (Number/Name)
PE 0604800N / JT Strike Fighter (JSF) EMD

Project (Number/Name)
2261 / Joint Strike Fighter EMD

	Start		E	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 6 Full Funding / Production / Delivery	2	2013	2	2015
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 7 Full Funding / Production / Delivery	2	2013	2	2016
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 8 Full Funding / Production / Delivery	2	2014	2	2017
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 9 Full Funding / Production / Delivery	2	2015	2	2018
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 10 Full Funding / Production / Delivery	2	2016	2	2019
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 11 Full Funding / Production / Delivery	2	2017	4	2019
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 12 Full Funding / Production / Delivery	2	2018	4	2019
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 13 Full Funding / Production / Delivery	2	2019	4	2019

PE 0604800N: *JT Strike Fighter (JSF) - EMD* Navy

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Exhibit R-2A, RDT&E Project Ju		Date: March 2014										
Appropriation/Budget Activity 1319 / 5	` ' '						lumber/Name) nt Reprogramming Center					
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3194: Joint Reprogramming Center	129.728	17.477	-	-	-	-	-	-	-	-	-	147.205
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

^{*} The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The United States Reprogramming Laboratory (USRL)/Capability Concept project, previously referred to as Joint Strike Fighter (JSF) Joint Reprogramming Center/Capability Concept is required to adequately develop and maintain Operational Sensor Engineering F-35(V) Mission Data to support United States Navy, United States Marine Corps, and United States Air Force multi-mission objectives. USRL will allow rapid operational response to threat changes. Funding is provided for:

- Aircraft sensor function and combat identification
- Conducting Offensive Identification/Jamming of potential threats
- Providing self defense against surface threats, air, and missile threats
- Detecting and identifying targets, to include moving land, air, and missile targets
- Providing mission planning to ensure aircraft survivability
- Conducting offensive operations against surface threats
- Conducting sensor management and information processing
- Software development for this requirement is funded through the F-35 JSF System Development and Demonstration baseline

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: USRL Build Up	6.576	-	-
Articles:	-	-	-
FY 2013 Accomplishments: Provide funds to Lockheed Martin Aero in support of reprogramming techniques, development and verification capacity required to adjust to emergent threats, and validate system effectiveness to increase survivability of the weapon system. Perform USRL stand-up testing and acceptance tasks.			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Title: Development Support	10.901	-	-

PE 0604800N: JT Strike Fighter (JSF) - EMD

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: March 2014
1	` ` ` '	, , ,	umber/Name) t Reprogramming Center

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Articles:	-	-	-
FY 2013 Accomplishments: Continue SDD SE including systems operations requirements analysis, program integration, requirements integration, and interoperability support of the USRL.			
FY 2014 Plans: N/A			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	17.477	-	-

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

N/A

Navy

<u>Remarks</u>

D. Acquisition Strategy

The Joint Reprogramming Capability (JRC) is a subset of Joint Strike Fighter (JSF) Program and falls within JSF acquisition strategy. JRC is needed to support scheduled Initial Operational Capability dates (and supporting test activity) for three JSF variants. To that end, a concept of operations is being developed for JRC to address Mission Data development, verification/validation/testing, and to merge service unique requirements into Joint processes/procedures. Previously envisioned as a single facility, JRC is now comprised of two distinct facilities under JRC concept. The USRL will support U.S. Joint Service reprogramming requirements; the Partner Reprogramming Laboratory will focus on International Partner areas of interest.

Inter-Service collaboration will eliminate duplication of effort, maximize technology to improve configuration control, employ advance networks, and ensure implementation of an enterprise (single shared database) solution. By capitalizing on legacy platform synergy, operational mission data intellect, proven processes, and existing reprogramming center resources, this approach will improve efficiencies. A Joint Command reprogramming authority will determine/manage reprogramming priorities and implementation authority.

The USRL Mission data development strategy is based upon an assessment of legacy systems, F-22 data, corporate expertise at Eglin Air Force Base/Naval Air Warfare Center Weapons Division, personnel, adjusted cost and schedule projections keyed to complexity of multi-variant and multi-mission aircraft; JSF-specific utilization of multiple sources of non-sustained disparate, raw, intelligence data, development of threat assessment - metrics; and build-up of real-world scenarios for systems verification and validation. These efforts support JSF operational requirements, interoperability, and fratricide mitigation.

PE 0604800N: JT Strike Fighter (JSF) - EMD

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	ONOLAGON ILD	
Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD	Project (Number/Name) 3194 I Joint Reprogramming Center
Although the Joint Strike Fighter (JSF) Program has contracted with Lockh contractors do not have laboratory space available or expertise to perform needed. The complexity and magnitude of JSF mission data loads drives reprogramming facility at Eglin Air Force Base.	operational evaluation of lab and flight test data	and support field recommendations to level
E. Performance Metrics		
United States Reprogramming Laboratory Stand-up - 4th Quarter FY 13		

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Exhibit R-4, RDT&E Schedule Prof	hibit R-4, RDT&E Schedule Profile: PB 2015 Navy														Date: March 2014													
ppropriation/Budget Activity 319 / 5							PE		ogr a 0480									Project (Number/Name) 3194 I Joint Reprogramming Center										
JSF United States Researh Laboratoty (USRL)		FY 2013 FY 2014			ı		FY 2	2015			FY 2	2016	;		FY 2	2017			FY 2	2018		FY 2019						
	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
USRL Implementation						ļ																						
USRL Standup				USRL STANDUP ▼																								
Verification and Validation Facility (VVF)																												
		ATP																										
		USRL IOC																										
Electronic Warfare Verification Station (EWVS) and Reprogramming Facility (RF)																												
			A ¹	TP																								

2015DON - 0604800N - 3194

PE 0604800N: *JT Strike Fighter (JSF) - EMD* Navy

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Exhibit R-2A, RDT&E Project Ju	xhibit R-2A, RDT&E Project Justification: PB 2015 Navy												
Appropriation/Budget Activity 1319 / 5	, , , , ,						lumber/Name) 5C Sustainment/Capability nents						
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
3352: F-35C Sustainment/ Capability Enhancements	-	-	14.992	16.997	-	16.997	16.977	-	-	-	-	48.966	
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-			

[#] The FY 2015 OCO Request will be submitted at a later date.

Note

Navy

NOTE: * This Navy Project Unit (3352) was a New Start in Fiscal Year 2014.

Total cost including United States Navy (USN), United States Marine Corps (USMC), and United States Air Force (USAF) funding is: FY13 \$14.167M, FY14 \$46.096M, and FY15 \$61.570M

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

R-2A (section B)/R-3 displays total combined program (i.e. not Service-specific), including International partners. D&S Includes:

USAF PE 64800F BPAC 653832

USN PE 0604800N Project Unit 3352

USMC PE 0604800M Project Unit 3350

A. Mission Description and Budget Item Justification

Funds enhancements to the deployability and suitability of the air system such as low observable (LO) maintenance enhancements, security architecture updates, redesign of obsolete items, and integrated training simulators. These enhancements will provide vital on-demand support to the war-fighter within a deployed environment and are not funded via the existing System Development and Demonstration (SDD) program or tied to Block 4 Operational Flight Program development. Funding will result in achieving targeted suitability, maintainability, and affordability returns employing the F-35 in deployed or austere locations.

-Funding at the accomplishment/planned program level is reported as the total of all services as these activities support all aircraft variants. The annual funding contribution between the United States Navy and United States Marine Corps is approximately equal.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) FY 2013 FY 2014 FY 2015 Title: Sustainment and Capability Enhancements - 31.622 42.236 Articles: - - - -

PE 0604800N: JT Strike Fighter (JSF) - EMD

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		,	Date: M	arch 2014	
Appropriation/Budget Activity 1319 / 5	Project 3352 I F Enhanc	bility			
B. Accomplishments/Planned Programs (\$ in Millions, Article Q	uantities in Each <u>)</u>		FY 2013	FY 2014	FY 2015
Description: Apply disciplined systems engineering, refinement of r maintainability of the air system such as decentralized maintenance architecture updates, redesign of obsolete items and integrated train	capabilities, LO maintenance enhancements, security				
FY 2013 Accomplishments: N/A					
FY 2014 Plans: Conduct systems engineering, technology maturation, integration are enhancements.	nd test planning for Deployability and Suitability				
FY 2015 Plans: Continue to conduct systems engineering, technical maturation, inte enhancements.	gration and test planning for suitability and deployability				
Title: Development Support	_		14.167	11.846	14.74
Description: Initiate SDD support efforts for airframe, air vehicle sysupport, and autonomic logistics development activities.		ticles:	-	-	
FY 2013 Accomplishments: Continue SDD support efforts for airframe, air vehicle systems, miss autonomic logistics development activities.	ion systems, weapons integration, mission support, and				
FY 2014 Plans: Continue development enhancement support for Deployable Autono capabilities, Low Observable maintenance enhancements, security a integrated training simulators.		nance			
FY 2015 Plans: Continue to initiate development enhancement support for Deployab maintenance capabilities, Low Observable maintance enhancement and integrated training simulators.					
Title: Development Test and Evaluation	Aı	ticles:	-	2.628	4.58

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				UNCLAS	SIFIED						
Exhibit R-2A, RDT&E Project Jus	tification: PB	2015 Navy							Date: Ma	arch 2014	
Appropriation/Budget Activity 1319 / 5						ment (Numb T Strike Figh		3352 <i>I</i> I	: (Number/Na 35C Sustai ements		bility
B. Accomplishments/Planned Pro	ograms (\$ in	Millions, Ar	ticle Quantit	ies in Each	<u>1)</u>				FY 2013	FY 2014	FY 2015
Description: Verification and testing	g for deploya	bility and sui	itablilty enhar	ncements							
FY 2013 Accomplishments: N/A											
FY 2014 Plans: Initiate verification of test articles, e enhancements.	valuation stra	tegy and me	etrics in prepa	aration for te	esting of dep	loyability and	d suitability				
FY 2015 Plans: Continue to initiate government tes System, and LO maintenance enha		on of capabil	ity enhancen	nents for De	ployable Au	tonomic Logi	stics Informa	ation			
				Acco	mplishment	s/Planned F	Programs Su	ubtotals	14.167	46.096	61.57
					RE	T&E,N (USI	MC) 0604800)M/3350	-	14.904	11.98
						RDT&E,	AF 0604800	F/65832	14.167	16.200	32.5
							Navy St	ubtotals	-	14.992	16.9
C. Other Program Funding Summ	narv (\$ in Mill	ions)									
	, , ,		FY 2015	FY 2015	FY 2015					Cost To	<u> </u>
<u>Line Item</u>	FY 2013	FY 2014	<u>Base</u>	<u>000</u>	<u>Total</u>	FY 2016	FY 2017	FY 2018		Complete	
 RDT&E/0604800F: Joint Strike Fighter 	1,115.712	612.254	535.420	-	535.420	522.575	327.100	115.413	5.250	-	22,021.7
International: International Partner (SDD/FOD)	148.772	18.030	6.430	-	6.430	2.600	8.080	3.040	-	-	4,949.5
• APAF/0207142F: F-35 Joint Strike Strike Fighter	2,532.184	2,889.602	3,553.046	-	3,553.046	5,138.558	5,262.325	5,943.415	5 5,770.781	148,305.40	0192,028.4
• RDT&E/0604800M/2262: JT Strike Fighter (JSF) - EMD	639.059	399.323	487.068	-	487.068	525.008	393.609	84.467	7 10.892	-	3,703.2
• APN/0605B: <i>F-35 Joint</i>	91.752	41.707	85.194	-	85.194	111.105	65.194	153.914	69.699	Continuing	Continui
Strike Fighter STOVL Spares											

PE 0604800N: *JT Strike Fighter (JSF) - EMD* Navy

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ification: PB	2015 Navy							Date: Ma	rch 2014		
							3352 <i>I F</i> -				
ary (\$ in Mill	ions)										
		FY 2015	FY 2015	FY 2015							
FY 2013	FY 2014	Base	<u>000</u>	<u>Total</u>		FY 2017					
26.089	42.060	28.200	-	28.200	28.200	136.134	101.997	201.771	Continuing	Continuing	
13.513	23.500	39.900	-	39.900		3.250	61.000	-	Continuing	Continuing	
80.715	126.777	187.646	-	187.646	221.826	250.178	254.903	262.733	Continuing	Continuing	
-	3.000	28.051	-	28.051	117.812	244.464	313.398	336.942	-	1,043.667	
163.151	89.050	236.418	-	236.418	270.431	278.552	380.165	457.051	Continuing	Continuing	
2.824	3.427	-	-	-	-	-	-	-	-	6.25	
338.000	1.431	4.463	-	4.463	3.858	2.333	2.374	2.415	Continuing	Continuing	
-	111.158	285.968	-	285.968	278.596	173.231	178.035	181.759	Continuing	Continuing	
-	29.950	20.502	-	20.502	37.336	47.953	51.409				
_	14.904	11.980	-	11.980	11.952	_	-	_	-	38.83	
_	=	13.973	_	13.973	59.885	120.644	157.796	168.923	-	521.22°	
14.167	16.200	32.593	_	32.593	29.657	_	_	_	_	92.61	
293.400	339.533	291.880	_	291.880	438.808	528.560	522.180	497.720	18.140.460	22.285.046	
									.,	,	
_	_	15.615	_	15.615	_	_	_	_	_	15.61	
808.000	1.028.415	610.652	_	610.652	629.916	1.135.967	1.394.026	1.974.142	30.575.452	47,756.623	
22.000	,,==30				1_3.0.0	.,	.,	.,	,- · • · · • -	.,. 50.02	
98.061	103.195	143.885	_	143.885	203.057	226.014	136.732	139.330	3.044.411	4.836.075	
23.001		3.003						. 20.000	-,	.,550.070	
1.094.421	1.176.498	1.200.410	_	1.200.410	1.451.916	2.061.990	2.726.113	2.810.778	27.238.439	41.455.992	
.,001.121	., 5. 100	.,200.110		.,200.110	.,	_,001.000	_,5 0	_,0.0.7.70	,	. 1, 130.002	
117 600	209 000	320 500	_	320 500	151 700	48 100	_	169 700	660 900	2,259.300	
	FY 2013 26.089 13.513 80.715 - 163.151 2.824 338.000 14.167 293.400	### Series	Fry (\$ in Millions) FY 2013 FY 2014 Base 28.200 13.513 23.500 39.900 80.715 126.777 187.646 - 3.000 28.051 163.151 89.050 236.418 2.824 3.427 - 338.000 1.431 4.463 - 111.158 285.968 - 29.950 20.502 - 14.904 11.980 - - 13.973 14.167 16.200 32.593 293.400 339.533 291.880 - - 15.615 808.000 1,028.415 610.652 98.061 103.195 143.885 1,094.421 1,176.498 1,200.410	R-1 P PE 06 EMD	R-1 Program Elep PE 0604800N / JT EMD	R-1 Program Element (Number Number	R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD JT Strike Fighter (JSF) - EMD JT Strike Fighter (JSF) - EMD JT Strike Fighter (JSF) - EMD JT Strike Fighter (JSF) - EMD JT Strike Fighter (JSF) - EMD JT Strike Fighter (JSF) - EMD JT Strike Fighter (JSF) - EMD JT Strike Fighter (JSF) - EMD JT Strike Fighter (JSF) - EMD JT Strike Fighter (JSF) - EMD JT Strike Fighter (JSF) - EMD JT Strike Fighter (JSF) - EMD JT Strike Fighter (JSF) - EMD JT Strike Fighter (JSF) - EMD JT Strike Fighter (JSF) - EMD JT Strike Fighter (JSF) - EMD JT Strike Fighter (JSF) - EMD JT Strike Fighter (JSF) - EMD JT Strike Fighter (JSF) - EMD JT Strike Fighter (JSF) - IT Strike Fighter (JSF) - IT Strike Fighter (JSF) - IT Strike Fighter (JSF) - IT Strike Fighter (JSF) - IT Strike Fighter (JSF) - IT	R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - 3352 / F. Enhance 3352 / F	R-1 Program Element (Number/Name) Pt 0604800N / JT Strike Fighter (JSF) - 3352 / F-35C Sustain 2352 / F-35C Sustain 2404800N / JT Strike Fighter (JSF) - 2015 2404800N / JT Strike Fighter (JSF) - 2015 2404800N / JT Strike Fighter (JSF) - 2015 2404800N / JT Strike Fighter (JSF) - 2015 2404800N / JT Strike Fighter (JSF) - 2017 201771	R-1 Program Element (Number/Name) Project (Number/Name) 3352 F-35C Sustainment/Capal Enhancements 2352 F-35C Sustainment/Capal Enhancements 250 250 260 260 200 260 200 260 20	

PE 0604800N: *JT Strike Fighter (JSF) - EMD* Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD	Project (Number/Name) 3352 I F-35C Sustainment/Capability Enhancements
C. Other Program Funding Summary (\$ in Millions)		

		•	FY 2015	FY 2015	FY 2015					Cost To	
<u>Line Item</u>	FY 2013	FY 2014	Base	OCO	<u>Total</u>	FY 2016	FY 2017	FY 2018	FY 2019	Complete	Total Cost
• USN RDT&E USRL: USN USRL	17.477	-	-	-	-	-	-	-	-	-	147.205
International 2:	1,487.584	1,924.048	3,205.900	-	3,205.900	6,109.330	7,280.752	6,686.294	4,192.377	-	34,149.323
International Procurement											
OPN/4268: Logistics	_	-	6.016	-	6.016	3.946	2.262	4.122	3.969	9.408	29.723
Information System (ALIS)											
• MC/0207597F: <i>USAF MILCON</i>	-	32.500	26.800	-	26.800	35.500	11.400	74.850	-	Continuing	Continuing

Remarks

D. Acquisition Strategy

Implement Joint Strike Fighter Joint Executive Steering Board/Configuration Steering Board approved enhancements through existing contracts using the engineering change proposal process. When appropriate, new cost type contracts may be established.

E. Performance Metrics

The following are the key performance parameters from the F-35 Selected Acquisition Report dated 31 December 2012:

Performance Metrics reflect Key Program Performance data.

Combat Radius

Conventional Take Off and Landing (CTOL) Does Not Meet Requirement Carrier Variant (CV) Meets Tripwire Requirement Short Take Off Vertical Landing (STOVL) Meets/Exceeds Tripwire Requirement

CV Recovery

Maximum Approach Speed Meets Requirement In Tripwire Band

STOVL Performance

Flat Deck (High-High Profile Fuel) Meets Requirement In Tripwire Band Ski Jump (High-Medium-Medium-High Profile Fuel) Meets Requirement In Tripwire Band Vertical Landing Bring Back Meets Requirement In Tripwire Band

Interoperability

Navy

Net Ready Criteria- Meets Requirement In Tripwire Band

PE 0604800N: JT Strike Fighter (JSF) - EMD

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Exhibit R-2A, RDT&E Project Justification: PB 2015 NavyDate: March 2014Appropriation/Budget ActivityR-1 Program Element (Number/Name)
PE 0604800N / JT Strike Fighter (JSF) -
EMDProject (Number/Name)
3352 / F-35C Sustainment/Capability
Enhancements

Radio Frequency Signature Meets/Exceeds Tripwire Requirement

Force Protection

CB Pilot Protection (New Key Performance Parameters Per CN3) - Meets/Exceeds Tripwire Requirement

Mission Reliability

CTOL Meets/Exceeds Tripwire Requirement

CV Exceeds Operational Requirements Document Objective

STOVL United States Marine Corps Meets/Exceeds Tripwire Requirement

STOVL United Kingdom Meets/Exceeds Tripwire Requirement

Sortie Generation Rate

CTOL Meets/Exceeds Tripwire Requirement

CV Meets/Exceeds Tripwire Requirement

Short Take Off Vertical Landing (STOVL) United States Marine Corps Meets/Exceeds Tripwire Requirement

STOVL UK Meets/Exceeds Tripwire Requirement

Logistics Footprints

Conventional Take Off and Landing (CTOL) Meets/Exceeds Tripwire Requirement

STOVL USMC Meets/Exceeds Tripwire Requirement

Logistics Footprint- Volume

Carrier Variant (CV) Exceeds Operational Requirements Document (ORD) Objective

STOVL USMC Exceeds ORD Objective

STOVL UK Meets/Exceeds Tripwire Requirement

Logistics Footprint-Weight

Navy

Carrier Variant (CV)Exceeds Operations Requirements Document (ORD) Objective

STOVL USMC Exceeds ORD Objective

STOVL UK Meets/Exceeds Tripwire Requirement

PE 0604800N: JT Strike Fighter (JSF) - EMD

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	.015 Navy	/								Date:	March 20	14	
Appropriation/Budg 1319 / 5	et Activity	/					ogram Ele 4800N / J				3352 / /	: (Number -35C Sustements	r/ Name) stainment/	Capabilit	'y
Product Developme	ent (\$ in M	illions)		FY 2	2013	FY 2	2014	FY 2 Ba			2015 CO	FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Prime LM Deployability Suitability	SS/CPAF	Lockheed Martin : Ft. Worth, TX	0.000	-		31.622	Mar 2014	42.236	Mar 2015	-		42.236	29.000	102.858	102.858
		Subtotal	0.000	-		31.622		42.236		-		42.236	29.000	102.858	102.858
Support (\$ in Million	ns)			FY 2	2013	FY 2	2014	FY 2 Ba	2015 se		2015 CO	FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Development Support	TBD	Various : Various	0.000	14.167	Oct 2013	10.846	Mar 2014	13.745	Mar 2015	-		13.745	-	38.758	-
		Subtotal	0.000	14.167		10.846		13.745		-		13.745	-	38.758	-
Test and Evaluation	(\$ in Milli	ions)		FY 2	2013	FY 2	2014	FY 2 Ba			2015 CO	FY 2015 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	Various : Various	0.000	-		2.628	Jun 2014	4.589	Jun 2015	-		4.589	-	7.217	-
		Subtotal	0.000	-		2.628		4.589		-		4.589	-	7.217	-
Management Service	es (\$ in M	lillions)		FY 2	2013	FY 2	2014	FY 2 Ba	2015 se		2015 CO	FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Support	TBD	Various : Various	0.000	-		1.000	Dec 2013	1.000	Dec 2014	-		1.000	0.657	2.657	-
		Subtotal	0.000	-		1.000		1.000		-		1.000	0.657	2.657	-
			Prior Years	FY 2	2013	FY 2	2014		2015 se		2015 CO	FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
		st Category Subtotals	0.000	14.167		46.096		61.570		-		61.570	29.657	151.490	-
	DDT0 - 11 (1)	JSMC) 0604800M/3350				14.904		11.980				11.980			1

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
1319 / 5	PE 0604800N / JT Strike Fighter (JSF) -	3352 I F-35C Sustainment/Capability
	EMD	Enhancements

	Prior Years	FY 2	2013 F	Y 2014	FY 2 Ba		2015 CO	FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
RDT&E,AF 0604800F/65832	-	14.167	16.2	00	32.593	-		32.593			-
Project Cost Totals	0.000	-	14.9	92	16.997	-		16.997	29.657	151.490	-

Remarks

NOTE:

FY 2013 reflects \$14.167USAF/Total \$14.167M

FY 2014 reflects \$16.200M USAF/\$14.992M USN/\$0.000M USMC/\$14.904M International/Total \$46.096M

FY 2015 reflects \$32.593M USAF/\$16.997M USN/\$11.980M USMC/\$0.000M International/Total \$61.570M

R-2A (section B)/R-3 displays total combined program (i.e. not Service-specific), including International partners.

JSF EMD Includes:

USAF PE 0604800F BPAC 653831 USN PE 0604800N Project Unit 2261 USMC PE 0604800M Project Unit 2262

D&S Includes:

USAF PE 0604800F BPAC 653832 USN PE 0604800N Project Unit 3352 USMC PE 0604800M Project Unit 3350

JSF Follow on Development Includes: USAF PE 0207142F BPAC 675346 USN PE 0608400N Project Unit 3353 USMC PE 0608400M Project Unit 3351

PE 0604800N: *JT Strike Fighter (JSF) - EMD* Navy

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nibit R-4, RDT&E Schedule Profile: PB 2015 Navy																			Da	te: N	Marc	h 20	14						
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604800N I JT Strike Fighter (JSF) - EMD							Project (Number/Name) 3352 I F-35C Sustainment/Capability Enhancements																
Proj 3352			FY	2013			FY 2	2014			FY	201	5		FY	2016	3		FY 2	2017			FY :	2018			FY 2	2019	
	10	2 2	Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	20	30	4Q	10	2 Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
D&S	6		4	Contract Award				D€	aploy	/mer	nt an	nd Su	iitabli	ty E	nhan	ceme	ents												
			İ																										
2015PB - 0604800N - 3352	I	1	1		I	l	I	l		I	1	I	I	1	I	I	1	I	l	l	l	I	l	I	l	I	I	I	

PE 0604800N: *JT Strike Fighter (JSF) - EMD* Navy

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy			Date: March 2014
1	, ,	, , ,	umber/Name) 5C Sustainment/Capability
		Enhancem	

Schedule Details

	St	art	Eı	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Proj 3352				
D&S: D&S Contract Award	3	2013	3	2013
D&S: D&S Deployment and Suitablity Enhancements	3	2014	4	2016

Exhibit R-2A, RD1&E Project J	ustification	: PB 2015 r	Navy							Date: Marc	cn 2014	
Appropriation/Budget Activity 1319 / 5					_	am Elemen DON / JT Str	•	•		umber/Nan 5C Follow-o	ne) on Developn	nent
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
3353: F-35C Follow-on Development	-	-	-	14.196	-	14.196	59.116	123.467	157.922	170.015	Continuing	Continuing
Quantity of RDT&E Articles	0.000	_	_	-	-	_	-	_	_	-		

[#] The FY 2015 OCO Request will be submitted at a later date.

Fullible D. O.A. DDTOE Ductions Investigations DD 2045 Nov.

Note

Navy

NOTE: * This Navy Project Unit (3353) is a New Start in Fiscal Year 2015.

Total cost including USN, USMC, and USAF funding is: FY2014 \$3.000M FY15 \$56.220M

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

R-2A (section B)/R-3 displays combined program for JSF Follow-on Development (FoD).

JSF FoD Includes: USAF PE 0207142F BPAC 675346 USN PE 0604800N Project Unit 3353 USMC PE 0604800M Project Unit 3351

A. Mission Description and Budget Item Justification

F-35 FoD provides continuing incremental upgrades of the three F-35 variants and associated ground equipment. The FoD acquisition strategy is based upon incremental block development of capabilities with each increment consisting of two development cycles. FoD capability planning includes an efficient transition from F-35 SDD to Follow-on Development. As SDD development activities ramp down, the FoD program will assume responsibility for new development and the maintenance of associated developmental infrastructure. FoD capability planning includes Block 4A and 4B Engineering and Manufacturing Development efforts from FY16 through FY19 followed by DT and OT testing in 2020/2021 with IOC of capabilities in 2022.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Air Vehicle Follow-on Development	-	3.000	47.880
Articles:	-	-	-
Description: Capability planning effort will focus on mission requirements analysis, early engineering, risk reduction and			

PE 0604800N: JT Strike Fighter (JSF) - EMD

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R-1 Line #136

Data: March 2014

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy			Date: N	1arch 2014	
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD		(Number/I -35C Follo	Name) w-on Develop	oment
B. Accomplishments/Planned Programs (\$ in Millions, Article Q	uantities in Each)		FY 2013	FY 2014	FY 2015
preparations leading to formal acquisition approval of Block 4. Progresupport for defining, managing and the acquisition of capability enhal Electronic Warfare ICD, the Fifth Generation Fighter Modernization I	ancements required to address threats indicated in the	nt			
FY 2013 Accomplishments: N/A					
FY 2014 Plans: Development and validation of the FoD CDD.					
FY 2015 Plans: Requirements analysis and technical requirements development, systystems Requirements Review and System Functional Review is placesign.		ry			
Title: Developmental Test and Evaluation	A	ticles:		-	4.54
Description: Initiate Laboratory and Test Aircraft Upgrade and othe development, integration, test and evaluation. Changes are needed driven by changes in threat and as identified in the Electronic Warfar	d to support development and evaluation of improvemen				
FY 2013 Accomplishments: N/A					
FY 2014 Plans: Near term funding will support infrastructure upgrades required for d replacement of engines and other life limited components on DT airc as laboratory upgrades to support development and verification of ca	craft that will be at end of life upon completion of SDD, a	s well			
FY 2015 Plans: Funding will support infrastructure investment planning and prioritiza includes planning for long-lead procurement for replacement of engine be at end of life upon completion of SDD, as well as laboratory upgracapabilities in a relevant threat.	ation required to maintain future development capability. Thes and other life limited components on DT aircraft tha	t will			
Title: Development Support	Ai	ticles:	-		3.80

PE 0604800N: *JT Strike Fighter (JSF) - EMD* Navy

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Exhibit R-2A, RDT&E Project Jus	tification: PE	3 2015 Navy							Date: Ma	arch 2014	
Appropriation/Budget Activity 1319 / 5					Program Ele 604800N / J	•	,		(Number/Na -35C Follow		ment
B. Accomplishments/Planned Pro	ograms (\$ in	Millions, Ar	ticle Quanti	ties in Each	<u>1)</u>				FY 2013	FY 2014	FY 2015
Description: Technical and Analyt	ical Support										
FY 2013 Accomplishments: N/A											
FY 2014 Plans: Initiate development support for de approved requirements documents		ing and acqu	uiring the env	risioned F-3	5C capability	enhanceme	ents identified	d in			
FY 2015 Plans: Initiate development support for de approved requirements documents	•	ing and acqu	uiring the env	risioned F-3	5B capability	enhanceme	ents identified	l in			
				Acco	mplishment	s/Planned F	Programs Su	ıbtotals	-	3.000	56.22
					RE	T&E,N (USI	MC) 0604800	M/3351	-	-	13.97
						RDT&E,A	F 0207142F	675346	-	3.000	28.0
							Navy Su	ıbtotals	-	-	14.19
C. Other Program Funding Summ	nary (\$ in Mill	ions)									
<u> </u>	<u>ιαι </u>	<u></u>	FY 2015	FY 2015	FY 2015					Cost To	
<u>Line Item</u>	FY 2013	FY 2014	Base	OCO	Total	FY 2016	FY 2017	FY 2018	FY 2019	Complete	Total Co
 RDT&E/0604800F: Joint Strike Fighter 	1,115.712	612.254	535.420	-	535.420	522.575	327.100	115.413	5.250	-	22,021.78
International: International Partner (SDD/FOD)	148.772	18.030	6.430	-	6.430	2.600	8.080	3.040	-	-	4,949.5
• APAF/0207142F: F-35 Joint Strike Strike Fighter	2,532.184	2,889.602	3,553.046	-	3,553.046	5,138.558	5,262.325	5,943.415	5,770.781	148,305.400	192,028.4
	639.059	399.323	487.068	-	487.068	525.008	393.609	84.467	10.892	-	3,703.2
• RDT&E/0604800M/2262: JT Strike Fighter (JSF) - EMD											
APN/0605B: F-35 Joint Strike Fighter STOVL Spares	91.752	41.707	85.194	-	85.194	111.105	65.194	153.914	69.699	Continuing	Continui

PE 0604800N: *JT Strike Fighter (JSF) - EMD* Navy

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Exhibit R-2A, RDT&E Project Justi	ification: PB	2015 Navy							Date: Ma		
Appropriation/Budget Activity 319 / 5						ment (Numb FStrike Figh			Number/Na 35C Follow-	i me) -on Develop	ment
C. Other Program Funding Summa	ary (\$ in Mill	ions)									
			FY 2015	FY 2015	FY 2015					Cost To	
<u>Line Item</u>	FY 2013	FY 2014	Base	<u>oco</u>	<u>Total</u>	FY 2016	FY 2017	FY 2018		Complete	
 APN/0605C: F-35 Joint 	26.089	42.060	28.200	-	28.200	28.200	136.134	101.997	201.771	Continuing	Continuin
Strike Fighter CV Spares											
• MC/0207142F: <i>USAF MILCON</i>	13.513	23.500	39.900	-	39.900	14.900	3.250	61.000		Continuing	
 APAF/0204142F: USAF 	80.715	126.777	187.646	-	187.646	221.826	250.178	254.903	262.733	Continuing	Continuin
Modification Funding											
 FOD/0207142F: USAF 	-	3.000	28.051	-	28.051	117.812	244.464	313.398	336.942	-	1,043.66
Follow-on Development											
0207142F/USAF: USAF Spares	163.151	89.050	236.418	-	236.418	270.431	278.552	380.165	457.051	Continuing	Continuir
• OPN/4267: Autonomic Logistics	2.824	3.427	-	-	-	-	-	-	-	-	6.25
Information System (ALIS)											
• USAF/OPAF PE 27142F: <i>OPAF</i>	338.000	1.431	4.463	-	4.463	3.858	2.333	2.374	2.415	Continuing	Continuir
APN/0592: F-35 STOVL Series	-	111.158	285.968	-	285.968	278.596	173.231	178.035	181.759	Continuing	Continuir
 APN/0593: F-35 CV Series 	-	29.950	20.502	-	20.502	37.336	47.953	51.409	53.388	Continuing	Continuir
RDT&E/0604800M/3350:	-	14.904	11.980	-	11.980	11.952	-	-	-	-	38.83
F-35C Sustainment/											
Capability Enhancements											
• RDT&E/0604800M/3351:	-	-	13.973	-	13.973	59.885	120.644	157.796	168.923	-	521.22
F-35C Follow-on Development											
• USAF SDD BP 653832:	14.167	16.200	32.593	-	32.593	29.657	-	-	-	-	92.6°
Deployability and											
Suitability Enhancements											
 PAF/0207142F: JSF CTOL 	293.400	339.533	291.880	-	291.880	438.808	528.560	522.180	497.720	18,140.460	22,285.04
Advance Procurement											
 DCA/0207142F: Dual 	_	_	15.615	-	15.615	-	-	-	-	-	15.6°
Capable Aircraft (DCA)											
• APN/0147: <i>F-35</i>	808.000	1,028.415	610.652	-	610.652	629.916	1,135.967	1,394.026	1,974.142	30,575.452	47,756.62
Joint Strike Fighter CV											
APN/0152C: Advance	98.061	103.195	143.885	-	143.885	203.057	226.014	136.732	139.330	3,044.411	4,836.07
Procurement (STOVL) BP0152C											•
APN/0152: Advance	1,094.421	1,176.498	1,200.410	_	1,200.410	1,451.916	2,061.990	2,726.113	2,810.778	27,238.439	41,455.99
Procurement (STOVL) BP0152		•	•		•	-			-	•	•
USN MILCON: USN JSF MILCON	117.600	209.000	320.500	_	320.500	151.700	48.100	_	169.700	660 900	2,259.30

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Exhibit R-2A, RDT&E Project Just	ification: PE	3 2015 Navy							Date: Ma	rch 2014		
Appropriation/Budget Activity 1319 / 5					•	ment (Numl T Strike Figh	,	, ,	Project (Number/Name) 3353 / F-35C Follow-on Development			
C. Other Program Funding Summ	ary (\$ in Mil	lions)										
			FY 2015	FY 2015	FY 2015					Cost To		
<u>Line Item</u>	FY 2013	FY 2014	Base	OCO	<u>Total</u>	FY 2016	FY 2017	FY 2018	FY 2019	Complete	Total Cost	
• USN RDT&E USRL: USN USRL	17.477	-	-	-	-	-	-	-	-	-	147.205	
International 2:	1,487.584	1,924.048	3,205.900	-	3,205.900	6,109.330	7,280.752	6,686.294	4,192.377	-	34,149.323	
International Procurement												
OPN/4268: Logistics	-	-	6.016	-	6.016	3.946	2.262	4.122	3.969	9.408	29.723	
Information System (ALIS)												
• MC/0207597F: USAF MILCON	-	32.500	26.800	-	26.800	35.500	11.400	74.850	-	Continuing	Continuing	

D. Acquisition Strategy

Remarks

Navy

To enable the ability to adjust to potential discrepancies discovered during SDD Block 3 Test and Evaluation, the engineering and development planning support for FoD will be procured under a cost type contract. A fee provision will be used to target and motivate contractor performance. 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. Both Development Support and Management Services will primarily use CPFF Delivery Orders.

E. Performance Metrics

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

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					Ul	ICLASS	סורובט								
Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2015 Navy	/								Date:	March 20) 14	
Appropriation/Budg 1319 / 5	et Activity	y				R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD					Project (Number/Name) 3353 / F-35C Follow-on Development				
Product Developme	ent (\$ in M	illions)		FY	2013	FY 2	2014		2015 ise		2015 CO	FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Requirements Analysis, Systems Engineering and Risk Reduction	SS/CPFF	Lockheed Martin : Ft. Worth, TX	0.000	-		-		48.623	Feb 2015	-		48.623	Continuing	Continuing	Continuin
		Subtotal	0.000	-		-		48.623		-		48.623	-	-	-
Support (\$ in Million	ns)			FY 2	2013	FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Technical and Analytic Support	SS/CPFF	Lockheed Martin : Ft. Worth, TX	0.000	-		3.000	Mar 2014	-		-		-	Continuing	Continuing	Continuin
		Subtotal	0.000	-		3.000		-		-		-	-	-	-
Test and Evaluation	ı (\$ in Milli	ions)		FY 2	2013	FY 2	2014		2015 ise		2015 CO	FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Laboratory and Test Aircraft Infrastructure	TBD	Lockheed Martin : Ft. Worth, TX	0.000	-		-		2.100	Jul 2015	-		2.100	Continuing	Continuing	Continuin
		Subtotal	0.000	-		-		2.100		-		2.100	-	-	_
Management Servic	es (\$ in M	lillions)		FY 2	2013	FY 2	2014		2015 ise		2015 CO	FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Program Support and Milestone Preparations	Various	Various : Various	0.000	-		-		4.177	Dec 2014	-		4.177	Continuing	Continuing	Continuin
PMA	Various	Various : Various	0.000	-		-		1.320	Dec 2014	-		1.320	-	1.320	-
		Subtotal	0.000	_		_		5.497		_		5.497		_	_

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy

R-1 Program Element (Number/Name)

PE 0604800N / JT Strike Fighter (JSF) -

Project (Number/Name)

3353 I F-35C Follow-on Development

Date: March 2014

1319 / 5

Appropriation/Budget Activity

EMD

Management Services (\$ in Millions)		FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total				
Contrac Method Cost Category Item & Type		Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract

Remarks

Cost to Complete, Total Cost, and Target Value are Continuing. When program baseline is estalished and development contract awarded, values will be established.

	Prior Years	FY 2	2013	FY 2	2014	FY 2 Ba		2015 CO	FY 2015 Total	Cost To	Total Cost	Target Value of Contract
Cost Category Subtotals	0.000	-		3.000		56.220	-		56.220	-	-	-
RDT&E,N (USMC) 0604800M/3351	-	-		-		13.973	-		13.973			-
RDT&E,AF 0207142F/675346	-	-		3.000		28.051	-		28.051			-
Project Cost Totals	0.000	-		-		14.196	-		14.196	-	-	-

Remarks

NOTE:

FY 2014 reflects \$3.000M USAF/\$0.000 USN/\$0.000M USMC/\$0.000M International/Total \$3.000M

FY 2015 reflects \$28.051M USAF/\$14.196 USN/\$13.973M USMC/\$0.000M International/Total \$56.220

R-2A (section B)/R-3 displays total combined program (i.e. not Service-specific), including International partners.

JSF EMD Includes:

USAF PE 0604800F BPAC 653831

USN PE 0604800N Project Unit 2261

USMC PE 0604800M Project Unit 2262

D&S Includes:

Navy

USAF PE 0604800F BPAC 653832

USN PE 0604800N Project Unit 3352

USMC PE 0604800M Project Unit 3350

JSF Follow on Development Includes:

USAF PE 0207142F BPAC 675346

USN PE 0608400N Project Unit 3353

USMC PE 0608400M Project Unit 3351

JSF Dual Capability Aircraft Includes:

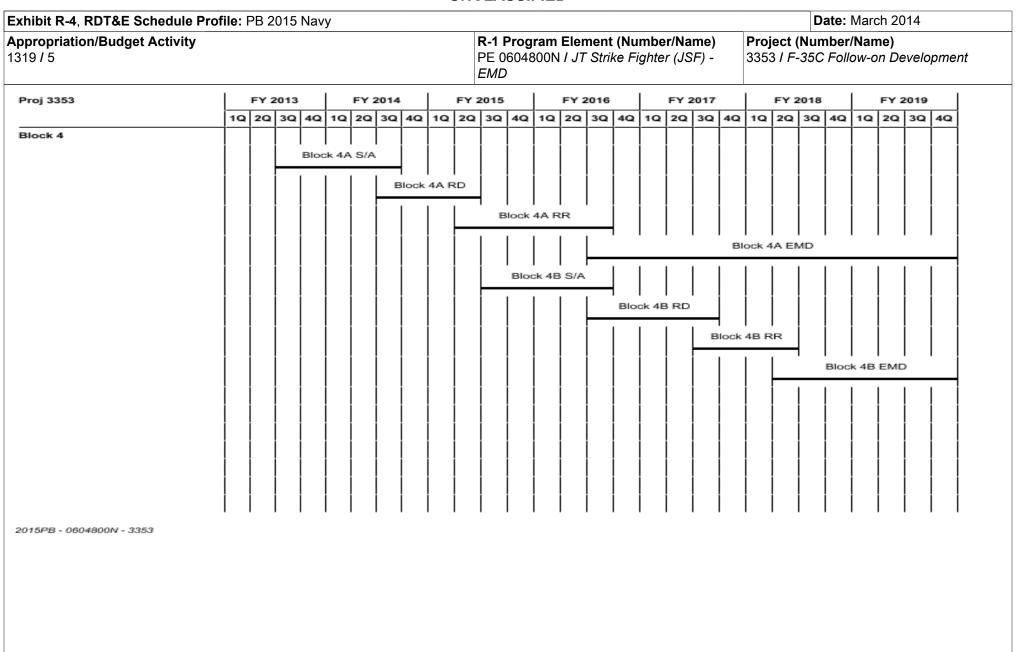
PE 0604800N: JT Strike Fighter (JSF) - EMD

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xhibit R-3, RDT&E Project Cost Analy	sis: PB 2015 Navy				Date: March 2014						
Appropriation/Budget Activity 319 / 5		R-1 Program E PE 0604800N / EMD	Pi - 33	Project (Number/Name) 3353 / F-35C Follow-on Development							
	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	Cost To Complete	Total Cost	Targe Value Contra		
JSAF PE 0207142F BPAC 676011						'					

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy	Date: March 2014		
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD	- 3 (umber/Name) 5C Follow-on Development

Schedule Details

	St	art	End		
Events by Sub Project	Quarter	Year	Quarter	Year	
Proj 3353					
Block 4: Block 4A Requirements Decomposition	3	2014	2	2015	
Block 4: Block 4A Risk Reduction	2	2015	3	2016	
Block 4: Block 4A Engineering and Manufacturing Development	3	2016	4	2019	
Block 4: Blcok 4B Studies and Analysis	3	2015	3	2016	
Block 4: Block 4B Requirements Decomposition	3	2016	3	2017	
Block 4: Block 4B Risk Reduction	3	2017	3	2018	
Block 4: Block 4B Risk Engineering and Manufacturing Development	3	2018	4	2019	

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2015 N	lavy							Date: Marc	ch 2014	
Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0604800N / JT Strike Fighter (JSF) - EMD Project (Number/Name) 9999 / Congressional Additional					,					
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
9999: Congressional Adds	-	-	1.500	-	-	-	-	-	-	-	-	1.500
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

^{*} The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Congressional Add. Provides funding to produce, staff, and gain approval of a Block 4 Capability Development Document.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014
Congressional Add: JSF Block 4 - USN Cong	-	1.500
FY 2013 Accomplishments: N/A		
FY 2014 Plans: N/A		
Congressional Adds Subtotals	-	1.500

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

N/A

Remarks

D. Acquisition Strategy

Not required for Congressional Add.

E. Performance Metrics

Not required for Congressional Add.

PE 0604800N: *JT Strike Fighter (JSF) - EMD* Navy

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