

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force										Date: March 2014		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0207142F I F-35 Squadrons							
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	9.682	-	3.000	43.666	-	43.666	117.812	244.464	313.398	336.942	Continuing	Continuing
675346: F-35	0.000	-	3.000	28.051	-	28.051	117.812	244.464	313.398	336.942	Continuing	Continuing
676011: JSF DUAL CAPABLE AIRCRAFT	9.682	-	-	15.615	-	15.615	-	-	-	-	Continuing	Continuing
MDAP/MAIS Code: 198												
# The FY 2015 OCO Request will be submitted at a later date.												
Note												
In FY 2015, BPAC 676011, JSF DUAL CAPABLE AIRCRAFT includes new start efforts												
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 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 certification in Block 4B.												
This program is in Budget Activity 7, Operational System Development, because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.												

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force				Date: March 2014	
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development		R-1 Program Element (Number/Name) PE 0207142F I F-35 Squadrons			
B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	8.117	33.000	104.866	-	104.866
Current President's Budget	-	3.000	43.666	-	43.666
Total Adjustments	-8.117	-30.000	-61.200	-	-61.200
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-8.117	-30.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	-61.200	-	-61.200
Change Summary Explanation					
FY13 Congressional reduction for Block 4 - Early to Need					
FY14 Congressional reduction: -\$23.0M for Block 4 ahead of Need, -\$10.0M for B-61 - no Approved CDD, and +\$3.0M for Block 4 CDD planning only					
FY15 adjustments for proper program alignment and funding for higher Air Force priorities					

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force										Date: March 2014		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0207142F / F-35 Squadrons				Project (Number/Name) 675346 / F-35			
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
675346: F-35	-	-	3.000	28.051	-	28.051	117.812	244.464	313.398	336.942	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Note
NOTE:
R-2A costs shown above reflect program funding only.

R-2A (section B)/R-3 displays combined service funding for F-35 Follow-on Development.

F-35 FoD 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

F-35 DCA Includes:
USAF PE 0207142F BPAC 676011
USN N/A
USMC N/A

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.

This program is in Budget Activity 7, Operational System Development, because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force		Date: March 2014	
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207142F / F-35 Squadrons	Project (Number/Name) 675346 / F-35	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014
Title: Air Vehicle Follow-on Development (Capability Planning) (F-35 JSF) Description: Capability planning effort will focus on mission requirements analysis, early engineering, risk reduction and preparations leading to formal acquisition approval of Block 4. Program planning will consist of engineering and development support for defining, managing and the acquisition of capability enhancements required to address threats indicated in the Electronic Warfare ICD, the Fifth Generation Fighter Modernization ICD. FY 2014 Plans: Development and validation of the FoD CDD FY 2015 Plans: Requirements analysis and technical requirements development, systems engineering, and technical planning. A combined Systems Requirements Review and System Functional Review is planned followed by development of the Block 4 preliminary design.		-	3.000
Title: Developmental Test and Evaluation (F-35 JSF) Description: Initiate Laboratory and Test Aircraft Upgrade and other test planning activities required for Block 4 and later development , integration, test and evaluation. Changes are needed to support development and evaluation of improvements driven by changes in threat and as identified in the Electronic Warfare ICD and the Fith Generation Fighter Modernization ICD. . FY 2015 Plans: Funding will support infrastructure investment planning and prioritization required to maintain future development capability. This includes planning for long-lead procurement for replacement of engines and other life limited components on DT aircraft that will be at end of life upon completion of SDD, as well as laboratory upgrades required to support development and verification of capabilities in a relevant threat.		-	4.540
Title: Development Support Description: Technical and Analytical Support FY 2015 Plans: Initiate development support for defining, managing and acquiring the envisioned F-35B capability enhancements identified in approved requirements documents.		-	3.800
Accomplishments/Planned Programs Subtotals		-	3.000
Other Service Program Funding Adjustment		-	28.169
Air Force Subtotals		-	3.000

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force									Date: March 2014			
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0207142F / F-35 Squadrons				Project (Number/Name) 675346 / F-35			
C. Other Program Funding Summary (\$ in Millions)												
Line Item	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	
• RDTE: BA05: PE 0604800F: JSF SDD, BPAC 653831	1,115.712	612.254	530.444	-	530.444	517.596	327.100	15.413	5.250	-	22,011.826	
• RDTE: BA04: PE 0604800F: JSF SDD, BPAC 653831	-	-	4.976	-	4.976	4.979	-	-	-	-	9.955	
• RDTE:BA05: PE 0604800F: JSF Deployability and Suitability Enhancements, BPAC 653832	14.167	16.200	32.593	-	32.593	29.657	-	-	-	-	-	
• RDTE: BA07: PE 207142F: Dual Capable Aircraft (DCA), BPAC 676011	-	-	15.615	-	15.615	-	-	-	-	-	-	
• RDTEN: BA05: PE 604800N: JSF SDD (CV), BPAC 2261	624.872	424.253	485.263	-	485.263	537.152	402.492	18.485	1.083	-	19,848.894	
• RDTEN: BA05: PE 604800M: JSF SDD (STOVL), BPAC 2262	639.059	399.323	487.068	-	487.068	525.008	393.609	84.467	10.892	-	3,703.262	
• RDTEN:BA05: PE 604800N: USRL, BPAC 3194	17.477	-	-	-	-	-	-	-	-	-	144.769	
• International R&D (SDD/ FoD): Int'l Parnter (SDD/FOD)	148.772	18.030	6.430	-	6.430	2.600	8.080	3.040	-	Continuing	Continuing	
• APAF: BA01: ATA000: JSF CTOL, PE 0207142F, BP10	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	190,999.096	
• APAF: BA01:ATA000: JSF CTOL Advance Procurement, PE 207142F, BP10	293.400	339.533	291.880	-	291.880	438.808	528.560	522.180	497.720	18,087.420	22,248.588	
• APN: BA01: BP0147: JSF (CV), PE 0204146N	808.000	1,028.415	610.652	-	610.652	629.916	1,135.967	1,394.026	1,974.142	32,609.960	49,791.131	
• APN: BA01: BP0147C: JSF Advance Procurement (CV), PE 204146N	30.699	79.016	29.400	-	29.400	73.800	123.000	196.768	246.000	3,686.760	5,729.873	
• APN: BA01:BP0152: JSF (STOVL), PE 0204146M	1,094.421	1,176.498	1,200.410	-	1,200.410	1,451.916	2,061.990	2,726.113	2,810.778	28,166.110	42,383.663	
• APN: BA01: BP0152C: JSF Advance Procurement (STOVL), PE 204146M	98.061	103.195	143.885	-	143.885	203.057	226.014	136.732	139.330	3,180.220	4,971.884	

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force									Date: March 2014			
Appropriation/Budget Activity 3600 / 7				R-1 Program Element (Number/Name) PE 0207142F / F-35 Squadrons				Project (Number/Name) 675346 / F-35				
C. Other Program Funding Summary (\$ in Millions)												
Line Item	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	
• International Production: International Production	1,487.584	1,924.048	3,205.900	-	3,205.900	6,109.330	7,280.752	6,686.294	4,192.377	Continuing	Continuing	
• OPN: BA04: BP4265: JSF Other Procurement, PE 204261N	-	-	-	-	-	-	-	-	-	-	5.665	
• OPN: BA03: BP4267: JSF Logistics Information System (ALIS), PE 204261N	2.824	3.427	6.016	-	6.016	3.946	2.262	4.122	3.969	9.408	37.390	
• APAF: BA06: ATA000: JSF Initial Spares, PE 0207142F, BP16	163.151	89.050	236.418	-	236.418	270.431	278.552	380.165	457.051	Continuing	Continuing	
• APN: BA06:ATA000: Initial Spares (CV), PE 0204146N, BP0605	26.089	42.060	-	-	-	28.200	136.134	101.997	201.771	Continuing	Continuing	
• APN: BA06: ATA000: Initial Spares (STOVL), PE 0204146M, BP0605	91.752	41.707	85.194	-	85.194	111.105	65.194	153.914	69.699	Continuing	Continuing	
• MILCON: BA01: PE 0207142F: JSF Military Construction	13.513	56.000	66.700	-	66.700	50.400	14.650	135.850	-	Continuing	Continuing	
• USN MILCON: BA01: USN JSF Military Construction	117.600	209.000	320.500	-	320.500	151.700	48.100	-	169.700	660.900	2,319.500	
• APAF: BA05: ATA000: JSF Modifications, PE 0207142F, BP11	80.715	126.777	187.646	-	187.646	221.826	250.178	254.903	262.733	Continuing	Continuing	
• OPAF: BA01: 821800: Joint Strike Fighter, PE 0207142F	0.338	1.431	4.463	-	4.463	3.858	2.333	2.374	2.415	Continuing	Continuing	
• APN: BA05: BP0593: Modifications (CV), PE 204146N	-	29.950	20.502	-	20.502	37.336	47.953	51.409	53.388	Continuing	Continuing	
• APN: BA05: BP0592: Modifications (STOVL), PE 204146M	-	111.158	285.968	-	285.968	278.596	173.231	178.035	181.759	Continuing	Continuing	
• RDTEN: BA05:PE 604800N: F-35C Follow-on Development (CV), BPAC 3353	-	-	14.196	-	14.196	59.116	123.467	157.922	170.015	Continuing	Continuing	
• RDT&EN:BA05: PE 604800N: F-35C Sustainment/Capability Enhancements (CV),BPAC 3352	-	14.992	16.997	-	16.997	16.977	-	-	-	-	38.968	
• RDT&EN: BA05: PE 604800M: F-35B Sustainment/	-	14.904	11.980	-	11.980	11.952	-	-	-	-	38.838	

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force			Date: March 2014
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207142F / F-35 Squadrons	Project (Number/Name) 675346 / F-35	

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

Line Item	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
Capability Enhancements (STOVL),BPAC 3350											
• RDTE: BA07: PE 604800M: F-35B Follow-on Development (STOVL), BPAC 3351	-	-	13.973	-	13.973	59.885	120.644	157.796	168.923	Continuing	Continuing

Remarks

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

Note: The USAF/USN/USMC PROCUREMENT lines include Aircraft Procurement and Advanced Procurement only. Initial Spares and Repair Parts for all Services are reflected in separate lines. International Partner Funding includes funds provided under the Italy and Netherlands Bilateral agreements.

RELATED RDT&E: Funding prior to F-35 SDD (FY94-FY01): USN PE 0603800N \$1,950,617; USAF PE 0603800F \$1,907,352; DARPA PE 0603800E \$118,056; and International Partner contributions of \$253.921 for a total of \$4,229,896.

D. Acquisition Strategy

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

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Air Force													Date: March 2014		
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0207142F / F-35 Squadrons				Project (Number/Name) 675346 / F-35					
Product Development (\$ in Millions)				FY 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 Complete	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	107.984
Subtotal			0.000	-		-		48.623		-		48.623	-	-	107.984
Support (\$ in Millions)				FY 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 Complete	Total Cost	Target Value of Contract
Technical and Analytic Support LM	SS/CPFF	Lockheed Martin : Ft Worth, TX	0.000	-		3.000		-		-		-	Continuing	Continuing	10.062
Subtotal			0.000	-		3.000		-		-		-	-	-	10.062
Test and Evaluation (\$ in Millions)				FY 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 Complete	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	-
Subtotal			0.000	-		-		2.100		-		2.100	-	-	-
Management Services (\$ in Millions)				FY 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 Complete	Total Cost	Target Value of Contract
Program Support and Milestone Preparations	TBD	Various : Various,	0.000	-		-		4.177	Dec 2014	-		4.177	Continuing	Continuing	-
PMA	Various	Various : Various,	0.000	-		-		1.320	Dec 2014	-		1.320	Continuing	Continuing	-
Subtotal			0.000	-		-		5.497		-		5.497	-	-	-

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Air Force **Date:** March 2014

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207142F / <i>F-35 Squadrons</i>	Project (Number/Name) 675346 / <i>F-35</i>
--	---	--

	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Subtotals	0.000	-	3.000	56.220	-	56.220	-	-	-
Other Service Program Funding Adjustment	0.000	-	-	28.169	-	28.169	-	28.169	-
Project Cost Totals	0.000	-	3.000	28.051	-	28.051	-	-	-

Remarks

Note: The Project information shown here reflects USN, USMC, USAF and International Partner funding total for each contract. By agreement, USN and USMC funding shares are approximately equal and when combined are equal to the USAF share. Partner funding share is based upon future aircraft procurement numbers updated annually in accordance with the Production, Sustainment, Follow-on Development Memorandum of Agreement. FY 2013 Risk Reduction conducted with Partner funding to maintain planned schedule for integration and delivery of Block 4 Capabilities. Funding was contributed by Partner nations in anticipation of U.S. funding in FY 2014.

F-35 FoD Includes:

USAF PE 0207142F BPAC 675346

FY13: USN PE 0604800N Project Unit 2261

FY14: USN PE 0604800N Project Unit 3353

FY13: USMC PE 0604800M Project Unit 2262

FY14: USMC PE 0604800M Project Unit 3351

F-35 DCA Includes:

USAF PE 0207142F BPAC 676011

USN N/A

USMC N/A

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force

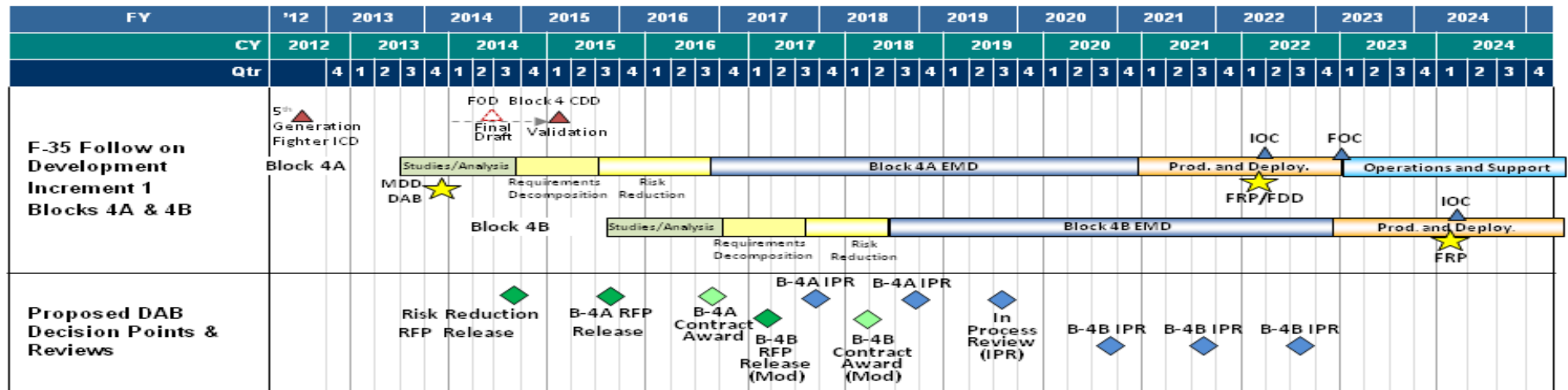
Date: March 2014

Appropriation/Budget Activity
3600 / 7

R-1 Program Element (Number/Name)
PE 0207142F / F-35 Squadrons

Project (Number/Name)
675346 / F-35

FoD Top Level Planning Schedule



5 February 2014

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2015 Air Force			Date: March 2014
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207142F / <i>F-35 Squadrons</i>	Project (Number/Name) 675346 / <i>F-35</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Block 4A: CDD Development	3	2014	2	2015
Block 4A: Requirements Decomposition	3	2014	2	2015
Block 4A: Risk Reduction	2	2015	3	2016
Block 4A: Engineering and Manufacturing Development	3	2016	1	2019
Block 4B: Studies and Analysis	3	2015	3	2016
Block 4B: Requirements Decomposition	3	2016	3	2017
Block 4B: Risk Reduction	3	2017	3	2018
Block 4B: Engineering and Manufacturing Development	3	2018	4	2019

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force										Date: March 2014		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0207142F / F-35 Squadrons				Project (Number/Name) 676011 / JSF DUAL CAPABLE AIRCRAFT			
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
676011: JSF DUAL CAPABLE AIRCRAFT	9.682	-	-	15.615	-	15.615	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
Note												
NOTE:												
F-35 FoD 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												
F-35 DCA Includes:												
USAF PE 0207142F BPAC 676011												
USN N/A												
USMC N/A												
In FY 2015, BPAC 676011, F-35 DCA includes new start efforts.												
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 includes drafting of Follow-on Development Increment 1 Capability Development Document (CDD) and further risk reduction. Follow-on Development will provide capability enhancements, required systems upgrades and cost improvements through an incremental acquisition approach.												
Additionally, the JSF 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												

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force										Date: March 2014		
Appropriation/Budget Activity 3600 / 7				R-1 Program Element (Number/Name) PE 0207142F / F-35 Squadrons				Project (Number/Name) 676011 / JSF DUAL CAPABLE AIRCRAFT				
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 certification in Block 4B.												
This program is in Budget Activity 7, Operational System Development, because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.												
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2013	FY 2014	FY 2015
Title: Dual Capable Aircraft (DCA)(F-35 JSF)										-	-	15.615
Description: This effort provides for the assessment of Dual Capable Aircraft (DCA) weapon integration impacts on the Joint Strike Fighter (JSF) aircraft, early in the weapon design phase. It identifies and avoids potential technical and cost risks, as well as defining the integration and certification trade-space to field the DCA capability with the B61 weapon. This effort also supports follow-on risk reduction efforts that will ensure future integration alignment with the first feasible post SDD block upgrade, and is expected to include full integration efforts pending Service decisions.												
FY 2015 Plans: Initiate risk reduction efforts required to integrate dual-capability on F-35A (CTOL). Developmental alignment with post SDD block upgrades will be determined based on analysis performed in FY12 and FY13.												
Accomplishments/Planned Programs Subtotals										-	-	15.615
C. Other Program Funding Summary (\$ in Millions)												
Line Item	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	
• RDTE: BA05: PE 0604800F: JSF SDD, BPAC 653831	1,115.712	612.254	530.444	-	530.444	517.596	327.100	115.413	5.250	-	22,011.826	
• RDTE: BA04: PE 0604800F: JSF SDD, BPAC 653831	-	-	4.976	-	4.976	4.979	-	-	-	-	-	
• RDTEN: BA05: PE 604800N: JSD SDD (CV), BPAC 2261	624.872	424.253	485.263	-	485.263	537.152	402.492	18.485	1.083	-	19,848.894	
• RDTEN: BA05: PE 604800M: JSD SDD (STOVL), BPAC 2262	639.059	399.323	487.068	-	487.068	525.008	393.609	84.467	10.892	-	3,703.262	
• APN: BA01:BP0152C: JSF Advance Procurement (STOVL), PE 204146M	98.061	103.195	143.885	-	143.885	203.057	226.014	136.732	139.330	3,180.220	4,971.884	
• RDTEN:BA05: PE 604800N: USRL, BPAC 3194	17.477	-	-	-	-	-	-	-	-	-	144.769	

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force									Date: March 2014			
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0207142F / F-35 Squadrons				Project (Number/Name) 676011 / JSF DUAL CAPABLE AIRCRAFT			
C. Other Program Funding Summary (\$ in Millions)												
Line Item	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	
• International R&D: <i>International R&D (SDD/FOD)</i>	163.272	21.965	56.139	-	56.139	87.641	124.219	80.486	54.624	Continuing	Continuing	
• APAF: BA01: ATA000: JSF CTOL, PE 207142F, BP10	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	190,999.096	
• APAF:BA01: ATA000: JSF CTOL Advance Procurement, PE 207142F, BP10 AP	293.400	339.533	291.880	-	291.880	438.808	528.560	522.180	497.720	18,087.420	22,248.588	
• APN: BA01: BP0147: JSF (CV), PE 204146N	808.000	1,028.415	610.652	-	610.652	629.916	1,135.967	1,394.026	1,974.142	32,609.960	49,791.131	
• APN: BA01: BP0147C: JSF Advance Procurement (CV), PE 204146N	30.699	79.016	29.400	-	29.400	73.800	123.000	196.768	246.000	3,686.760	5,729.873	
• APN: BA01: BP0152: JSF (STOVL), PE 204146M	1,094.421	1,176.498	1,200.410	-	1,200.410	1,451.916	2,061.990	2,726.113	2,810.778	28,166.110	42,383.663	
• International Production: JSF International Production	148.772	18.030	6.430	-	6.430	2.600	8.080	3.040	-	-	-	
• OPAF: BA01: 821800: Joint Strike Fighter, PE 0207142F	0.338	1.431	4.463	-	4.463	3.858	2.333	2.374	2.415	Continuing	Continuing	
• OPN: BA04: BP4265: JSF Other Procurement, PE 204261N	-	-	-	-	-	-	-	-	-	-	5.665	
• OPN: BA03: BP4267: JSF Logistics Information System (ALIS),PE 204261N	2.824	3.427	6.016	-	6.016	3.946	2.262	4.122	3.969	9.408	29.723	
• APAF: BA06: PE 207142F, BP16: JSF Initial Spares	163.151	89.050	236.418	-	236.418	270.431	278.552	380.165	457.051	Continuing	Continuing	
• APN: BA06: PE 204146N, BP0605: Initial Spares (CV)	26.089	42.060	28.200	-	28.200	28.200	136.134	101.997	201.771	Continuing	Continuing	
• APN: BA06: PE 204146M, BP0605: Initial Spares (STOVL)	91.752	41.707	85.194	-	85.194	111.105	65.194	153.914	69.699	Continuing	Continuing	
• MILCON: BA01: PE 207142F: JSF Military Construction	13.513	56.000	66.700	-	66.700	50.400	14.650	135.850	-	Continuing	Continuing	
• USN MILCON: BA01: USN JSF MILCON	117.600	209.000	320.500	-	320.500	151.700	48.100	-	169.700	660.900	2,319.500	

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force										Date: March 2014		
Appropriation/Budget Activity 3600 / 7				R-1 Program Element (Number/Name) PE 0207142F / F-35 Squadrons				Project (Number/Name) 676011 / JSF DUAL CAPABLE AIRCRAFT				
C. Other Program Funding Summary (\$ in Millions)												
Line Item	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	
• APAF: BA05: PE 20742F, BP11: JSF Modifications	80.715	126.777	187.646	-	187.646	221.826	250.178	254.903	262.733	Continuing	Continuing	
• APN: BA05: BP0593: Modifications (CV),PE 204146N	-	29.950	20.502	-	20.502	37.336	47.953	51.409	53.388	Continuing	Continuing	
• APN: BA05: BP0592: Modifications (STOVL), PE 204146M	1,094.421	1,176.498	1,200.410	-	1,200.410	1,451.916	2,061.990	2,726.113	2,810.778	28,166.110	42,383.663	
• RDTE: BA07: PE 207142F: JSF Follow-on Development (FoD), BPAC 675346	-	3.000	28.051	-	28.051	117.812	244.464	313.398	336.942	Continuing	Continuing	
• RDTE:BA05: PE 0604800F: JSF Deployability and Suitability Enhancements, BPAC 653832	14.167	16.200	32.593	-	32.593	29.657	-	-	-	-	-	
• RDTEN: BA05: PE 604800N: F-35C Follow-on Development (CV),BPAC 3353	-	-	14.196	-	14.196	59.116	123.467	157.922	170.015	Continuing	Continuing	
• RDT&EN: BA05: PE 604800N: F-35C Sustainment/Capability Enhancements (CV), BPAC 3352	-	14.992	16.997	-	16.997	16.977	-	-	-	-	48.966	
• RDTE: BA05: PE 604800M: F-35B Follow-on Development (STOVL), BPAC 3351	-	-	13.973	-	13.973	59.885	120.644	157.796	168.923	Continuing	Continuing	
• RDT&EN: BA05: PE 604800M: F-35B Sustainment/ Capability Enhancements (STOVL), BPAC 3350	-	14.904	11.980	-	11.980	11.952	-	-	-	-	38.836	
Remarks												
This is a joint program with no executive service. Service Acquisition Executive (SAE) authority alternates between the Department of the Navy and the Department of the Air Force and currently resides with the Navy. Program Element 0604800N/0604800M continues USN development efforts budgeted in 0603800N prior to FY2002. The United Kingdom and other International countries are participants in the SDD phase of JSF.												
Note: The USAF/USN/USMC PROCUREMENT lines include Aircraft Procurement and Advanced Procurement only. Initial Spares and Repair Parts for all Services are reflected in separate lines. International Partner Funding includes funds provided under the Italy and Netherlands Bilateral agreements.												

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Air Force			Date: March 2014
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207142F / <i>F-35 Squadrons</i>	Project (Number/Name) 676011 / <i>JSF DUAL CAPABLE AIRCRAFT</i>	

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

<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
RELATED RDT&E: Funding prior to JSF SDD (FY94-FY01): USN PE 0603800N \$1,950,617; USAF PE 0603800F \$1,907,352; DARPA PE 0603800E \$118,056; and International Partner contributions of \$253.921 for a total of \$4,229,896.											

D. Acquisition Strategy

The DCA effort will be procured via a cost type contract. It is anticipated that fee provisions will be used to target and motivate the contractor performance.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

UNCLASSIFIED

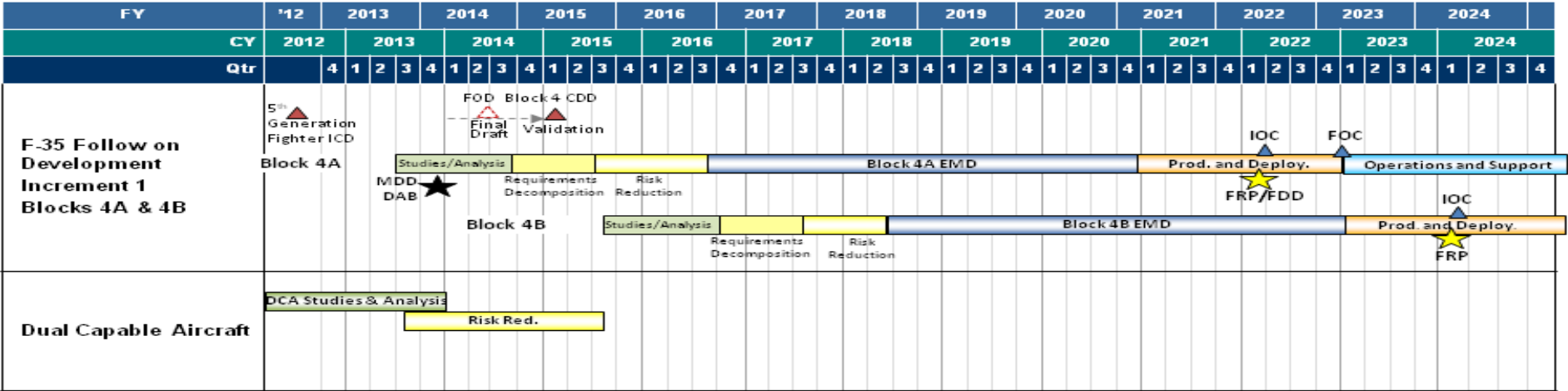
Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Air Force												Date: March 2014			
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0207142F / F-35 Squadrons				Project (Number/Name) 676011 / JSF DUAL CAPABLE AIRCRAFT					
Product Development (\$ in Millions)				FY 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 Complete	Total Cost	Target Value of Contract
Lockheed Martin - DCA Integration	SS/CPFF	Lockheed Martin : Ft. Worth, TX	9.682	-		-		15.615	Mar 2015	-		15.615	Continuing	Continuing	19.682
Subtotal			9.682	-		-		15.615		-		15.615	-	-	19.682
Support (\$ in Millions)				FY 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 Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 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 Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-		-	-	-	-
Management Services (\$ in Millions)				FY 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 Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-		-	-	-	-
			Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			9.682	-		-		15.615		-		15.615	-	-	19.682
Remarks F-35 FoD 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															

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Air Force							Date: March 2014			
Appropriation/Budget Activity 3600 / 7				R-1 Program Element (Number/Name) PE 0207142F / F-35 Squadrons		Project (Number/Name) 676011 / JSF DUAL CAPABLE AIRCRAFT				
	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract	
USMC: FY14 PE 0604800M Project Unit 3351										
F-35 DCA Includes: USAF PE 0207142F BPAC 676011 USN N/A USMC N/A										

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force		Date: March 2014	
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207142F / F-35 Squadrons		Project (Number/Name) 676011 / JSF DUAL CAPABLE AIRCRAFT

FoD/DCA Top Level Planning Schedule



DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

5February 2014

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2015 Air Force		Date: March 2014
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207142F / F-35 Squadrons	Project (Number/Name) 676011 / JSF DUAL CAPABLE AIRCRAFT

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
DCA Risk Reduction	2	2013	3	2015