Exhibit R-2, **RDT&E Budget Item Justification:** PB 2014 Air Force

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

3600: Research, Development, Test & Evaluation, Air Force

PE 0604800F: F-35 - EMD

BA 5: System Development & Demonstration (SDD)

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	17,449.086	1,366.147	1,210.306	816.335	-	816.335	654.432	516.094	175.591	77.992	Continuing	Continuing
653831: Joint Strike Fighter	17,449.086	1,366.147	1,192.506	782.335	-	782.335	621.432	486.094	175.591	77.992	Continuing	Continuing
653832: JSF DEPLOYABILITY AND SUITABILITY ENHANCEMENT	0.000	0.000	17.800	34.000	-	34.000	33.000	30.000	0.000	0.000	Continuing	Continuing

MDAP/MAIS Code(s): 198

A. Mission Description and Budget Item Justification

The F-35 Joint Strike Fighter (JSF) Program will develop and field an affordable, highly common family of next generation strike aircraft for the United States Navy, Air Force, Marine Corps 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 CV will provide the DoN 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 JSF program. The program shown here reflects USN, USAF, and International Partner funding.

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 Navy and Air Force use.

FY07: 1 Conventional Take Off and Landing (CTOL) flight test article

FY08: 1 Short Take Off and Vertical Landing (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 Carrier Variant (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

PE 0604800F: *F-35 - EMD*

Air Force

^{*}FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

3600: Research, Development, Test & Evaluation, Air Force

PE 0604800F: F-35 - EMD

BA 5: System Development & Demonstration (SDD)

BA5 - This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting Engineering and Manufacturing Development (EMD) tasks aimed at meeting validated requirements prior to full-rate production.

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	1,387.926	1,210.306	1,039.035	-	1,039.035
Current President's Budget	1,366.147	1,210.306	816.335	-	816.335
Total Adjustments	-21.779	0.000	-222.700	-	-222.700
 Congressional General Reductions 	-	0.000			
 Congressional Directed Reductions 	-	0.000			
 Congressional Rescissions 	0.000	0.000			
 Congressional Adds 	-	0.000			
 Congressional Directed Transfers 	-	0.000			
 Reprogrammings 	0.000	0.000			
SBIR/STTR Transfer	-21.779	0.000			
Other Adjustments	0.000	0.000	-222.700	-	-222.700

Change Summary Explanation

FY14 change due to SDD funding profile being rephased to better align resources to requirements.

PE 0604800F: F-35 - EMD

Air Force

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

3600: Research, Development, Test & Evaluation, Air Force PE 0604800F: F-35 - EMD 653831: Joint Strike Fighter

BA 5: System Development & Demonstration (SDD)

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
653831: Joint Strike Fighter	17,449.086	1,366.147	1,192.506	782.335	-	782.335	621.432	486.094	175.591	77.992	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Note

Total cost including USN, USMC, International partner contributions and USAF funding are: FY12 \$2,735.504M, FY13 \$2,803.393M and FY14 \$1,777.322M. R-2 data reflects variant unique funding only.

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

R-2A (section B)/R-3 displays total combined Service (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 FoD includes:

USAF: PE 0207142F BPAC 675346 USN: FY13 PE 0604800N BPAC 2261 USN: FY14 PE 0604800N BPAC 3353 USMC: FY13 PE 0604800M BPAC 2262 USMC: FY14 PE 0604800M BPAC 3351

PE 0604800F: F-35 - EMD

Air Force

UNCLASSIFIED

Page 3 of 28 R-1 Line #78

^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 5: System Development & Demonstration (SDD)

PATE: April 2013

R-1 ITEM NOMENCLATURE
PE 0604800F: F-35 - EMD

653831: Joint Strike Fighter

A. Mission Description and Budget Item Justification

The F-35 Joint Strike Fighter (JSF) Program will develop and field an affordable, highly common family of next generation strike aircraft for the United States Navy, Air Force, Marine Corps 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 CV will provide the DoN 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 JSF program. The program shown here reflects USN, USMC, USAF, and International Partner funding.

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 Navy and Air Force use.

FY07: 1 Conventional Take Off and Landing (CTOL) flight test article

FY08: 1 Short Take Off and Vertical Landing (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 Carrier Variant (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

BA5 - This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting Engineering and Manufacturing Development (EMD) tasks aimed at meeting validated requirements prior to full-rate production.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: System Development and Demonstration	2,025.446	1,795.102	761.153
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 2012 Accomplishments: Continued SDD execution of the Air System with Lockheed Martin, including International Commonality Effort which includes airframe, vehicle systems, mission systems, autonomic logistics, systems engineering, and integrated test efforts.			
FY 2013 Plans:			

PE 0604800F: *F-35 - EMD*

UNCLASSIFIED

Air Force Page 4 of 28 R-1 Line #78

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE:	April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604800F: F-35 - EMD	PROJECT 653831: Joint Strike Fighter			
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014	
Continue SDD execution of the Air System with Lockheed Martin, incairframe, vehicle systems, mission systems, autonomic logistics, sys					
FY 2014 Plans: Continue SDD execution of the Air System with Lockheed Martin, incairframe, vehicle systems, mission systems, autonomic logistics, system with planned completion of SDD in 2018.					
Title: F135 Propulsion System		277.559	359.618	399.749	
Description: SDD execution of the F135 Propulsion System (Pratt & testing, autonomic logistics, integration & performing technology mat		ludes			
FY 2012 Accomplishments: Continued SDD execution of the F135 Propulsion System with Pratt integration and performing technology maturation efforts.	& Whitney that includes engine testing, autonomic logisti	os,			
FY 2013 Plans: Continue SDD execution of the F135 Propulsion System with Pratt & integration and performing technology maturation efforts.	Whitney that includes engine testing, autonomic logistic	5,			
FY 2014 Plans: Continue SDD execution of the F135 Propulsion System with Pratt & integration and performing technology maturation efforts. Funding in contract value resulting from the total program baseline review.		5,			
Title: F136 Propulsion System		5.000	0.000	0.000	
Description: SDD execution of the F136 Propulsion System (General	ral Electric/Rolls Royce)				
FY 2012 Accomplishments: Continued F136 Propulsion System Development effort by the Gene	ral Electric/Rolls Royce Fighter Engine Team (GE/RR FE	T)			
Title: Systems Engineering (SE)		44.121	20.063	32.188	
Description: SDD Systems Engineering (SE) including systems oper requirements integration, and interoperability support.	erations requirements analysis, program integration,				
FY 2012 Accomplishments:					

PE 0604800F: *F-35 - EMD*

Air Force

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DAT	E: April 2013			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604800F: F-35 - EMD	PROJECT 653831: Joint S	PROJECT 653831: Joint Strike Fighter			
B. Accomplishments/Planned Programs (\$ in Millions)		FY 201	2 FY 2013	FY 2014		
Continued SDD Systems Engineering that includes systems operation, and interoperability support.	ons requirements analysis, program integration, red	quirements				
FY 2013 Plans: Continue SDD Systems Engineering that includes systems operatio integration, and interoperability support.	ns requirements analysis, program integration, requ	uirements				
FY 2014 Plans: Continue SDD Systems Engineering that includes systems operatio integration, and interoperability support.	ns requirements analysis, program integration, requ	uirements				
Title: Development Test & Evaluation (DT&E)		152.4	06 374.258	381.71		
Description: Government DT&E/Operational Testing (OT) in support preparation for flight testing and weapons integration testing.	ort of first flight of test aircraft. Elements of DT&E in	clude				
FY 2012 Accomplishments: Continued government DT&E/OT in support of test aircraft. Continut to expand the air vehicle envelope to support mission systems testing preparation for flight testing, weapons integration testing, and comp	ng to include initial Block 2B. Elements of DT&E inc					
FY 2013 Plans: Continued government DT&E/OT. Continue flight sciences testing of envelope to support mission systems testing to include initial Block weapons integration testing, and component capabilities testing.						
FY 2014 Plans: Continued government DT&E/OT. Continue flight sciences testing of envelope to support mission systems testing to include initial Block weapons integration testing, and component capabilities testing.						
Title: Development Support		137.3	64 140.477	95.76		
Description: SDD Support efforts for airframe, air vehicle systems, autonomic logistics development activities.	mission systems, weapons integration, mission sup	oport, and				

PE 0604800F: *F-35 - EMD*

Air Force

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force			DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD)	Joint Strik	e Fighter			
B. Accomplishments/Planned Programs (\$ in Millions)		F	Y 2012	FY 2013	FY 2014
Continued SDD Support efforts for airframe, air vehicle systems, mission autonomic logistics development activities.	n systems, weapons integration, mission support, a	nd			
FY 2013 Plans: Continue SDD Support efforts for airframe, air vehicle systems, mission autonomic logistics development activities.	systems, weapons integration, mission support, an	d			
FY 2014 Plans: Continue SDD Support efforts for airframe, air vehicle systems, mission autonomic logistics development activities.	systems, weapons integration, mission support, an	d			
Title: Program Management Support			93.608	113.875	106.759
Description: Management support services, civilian pay, travel, engineed evaluations in support of program objectives.	ering technical services, and studies analyses and				
FY 2012 Accomplishments: Continued management support services, travel, engineering technical sof program objectives. Initiated use of RDT&E for Air Force civilian pay.	services, and studies analyses and evaluations in s	upport			
FY 2013 Plans: Continue management support services, travel, engineering technical se of program objectives. Program Management Support increase is due to Continue use of RDT&E for civilian pay (Air Force Only).					
FY 2014 Plans: Continue management support services, travel, engineering technical se of program objectives. Program Management Support decrease is due to Continue use of RDT&E for civilian pay. (Air Force Only)					
	Accomplishments/Planned Programs Su	btotals 2	2,735.504	2,803.393	1,777.322
	Other Service Funding Adj	ustment	1,369.357	1,610.887	994.987
	Air Force Su	btotals	1,366.147	1,192.506	782.335

UNCLASSIFIED

PE 0604800F: *F-35 - EMD*

Air Force

Page 7 of 28

Exhibit R-2A, RDT&E Project Justif	fication: PB	2014 Air Fo	orce						DATE: A	oril 2013				
APPROPRIATION/BUDGET ACTIVITION	TY			R-1 IT	EM NOME	NCLATURE		PROJEC	T					
3600: Research, Development, Test of				PE 06	04800F: <i>F-</i> 3	35 - EMD	653831:	653831: Joint Strike Fighter						
BA 5: System Development & Demor	nstration (SE	DD)												
C. Other Program Funding Summa	ry (\$ in Mill	ions)												
			FY 2014	FY 2014	FY 2014					Cost To				
<u>Line Item</u>	FY 2012	FY 2013	Base	OCO	<u>Total</u>	FY 2015	FY 2016	FY 2017		Complete	Total Cost			
• RDTEN: BA05: PE 604800N: <i>JSF</i>	605.998	724.392	507.753		507.753	570.181	450.625	254.021	23.023	0.000	22,922.837			
SDD (CV)														
• RDTEN: BA05: PE 604800M:	617.695	737.149	482.823		482.823	557.360	439.945	244.047	96.185	0.000	22,962.048			
JSF SDD (STOVL)														
• RDTEN: BA05: PE 0604800N: USRL	26.044	19.534	0.000		0.000	0.000	0.000	0.000	0.000	0.000	149.262			
APAF: BA01: Line Item #	3,289.615	3,124.302	3,060.770		3,060.770	3,921.250	5,188.155	5,250.891	5,850.4771	50,878.7501	89,907.778			
ATA000: JSF CTOL,PE 207142F,														
BP10	4 447 007	4 007 000	4 405 444		4 405 444	4 000 040	4 400 775	0.054.000	0.500.000	00 707 000	45 040 077			
• APN: BA01: Line Item # 0147: JSF (CV), PE 204146N	1,447.097	1,007.632	1,135.444		1,135.444	1,082.046	1,468.775	2,054.690	2,532.068	26,737.969	45,618.677			
 APN: BA01: Line Item # 0147C: 	109.066	65.180	94.766		94.766	132.063	185.904	246.779	190.141	3,364.677	5,219.579			
JSF Advance Procurement														
(CV),PE 204146N														
• APAF: BA01:ATA000: <i>JSF</i>	228.977	293.400	363.783		363.783	482.795	509.828	578.000	588.404	18,585.140	22,633.855			
CTOL Advance Procurement, PE 207142F, BP10 AP														
• APN: BA01: Line Item #0152:	1,141.906	1,404.737	1,267.260		1,267.260	1,209.937	1,461.056	2,125.324	2,814.618	29,224.711	41,203.070			
JSF (STOVL), PE 204146M														
• APN: BA01: 0152C: <i>JSF Advance</i>	117.229	106.199	103.195		103.195	143.887	203.057	226.014	136.732	4,095.291	5,755.765			
Procurement (STOVL),PE														
204146M	1 000 640	2 452 002	E 700 E47		E 700 E47	7 560 705	0 220 000	0.450.007	7 2 4 7 202	Camtinuina	Cantinuina			
International Production: JSF International Production	1,808.640	3,453.903	5,738.517		5,738.517	7,563.725	8,328.889	8,153.307	7,347.293	Continuing	Continuing			
OPN: BA04:4265: JSF Other	5.665	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	5.665			
Procurement, PE 204261N	5.005	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	5.005			
• OPN: BA03: 4267: <i>JSF Logistics</i>	0.000	3.826	4.827		4.827	4.554	4.604	5.729	5.830	43.558	72.928			
Information Systems (ALIS), PE 204261N	3.000	5.020	7.027		1.021	7.004	7.004	5.725	3.000	10.000	12.020			
• APAF: BA06: Line Item # F03500:	149.556	181.833	103.582		103.582	235.183	271.211	235.251	342.508	Continuing	Continuina			
JSF Initial Spares, PE 0207142F, BP16							_		2 .2.000		· · · · · · · · · · · · · · · ·			

PE 0604800F: *F-35 - EMD*

Air Force

UNCLASSIFIED

Page 8 of 28

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force	DATE: April 2013	
	R-1 ITEM NOMENCLATURE PE 0604800F: <i>F-35 - EMD</i>	PROJECT 653831: Joint Strike Fighter

C. Other Program Funding Summa	ry (a in Millio	0115)	EV 2044	EV 2044	EV 2044					Coot To	
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	EV 2019	Cost To Complete	Total Cos
• APN: BA06: 0605: <i>Initial Spares</i>	29.902	41.466	42.060	000	42.060	17.310	32.270	121.283		Continuing	
(CV), PE 204146N	20.002	41.400	42.000		42.000	17.010	02.270	121.200	00.000	Continuing	Continuing
APN: BA06: 0605: Initial Spares	23.430	99.006	41.707		41.707	131.216	94.193	66.423	127.264	Continuing	Continuin
(STOVL), PE 204146M										3	•
MILCON: BA01: PE 207142F:	24.250	13.530	41.900		41.900	72.100	65.000	66.170	11.000	1,554.200	2,358.300
JSF Military Construction											
USN MILCON: BA01: USN JSF	144.400	117.600	209.000		209.000	320.500	151.700	48.100	0.000	830.600	2,259.300
Military Construction											
RDT&E: BA07: PE 027142F: <i>JSF</i>	0.000	8.117	23.000		23.000	104.866	132.174	229.912	300.050	Continuing	Continuing
Follow-on Development (FoD),											
BPAC 675346											
• RDT&E: BA07: PE 0207142F:	9.682	0.000	10.000		10.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Dual Capable Aircraft (DCA),											
BPAC 676011											
 International R&D: International 	145.664	149.346	4.411		4.411	0.000	0.000	0.000	0.000	0.000	4,947.074
R&D (SDD/FoD)											
• OPAF: BA01: 821800: <i>Joint</i>	0.000	0.600	2.200		2.200	2.943	2.471	2.345	2.387	0.000	12.946
Strike Fighter, PE 0207142F			0.4.400		0.4.400	50.000	00.400		400 450		
• APN: BA05: BP0593:	0.000	0.000	31.100		31.100	52.900	62.130	98.980	102.456	Continuing	Continuing
Modifications (CV), PE 204146N	0.000	47.000	04.000		04.000	00.000	00.000	0.000	0.000	0.000	444.000
RDTE: BA05: PE 0604800F:	0.000	17.800	34.000		34.000	33.000	30.000	0.000	0.000	0.000	114.800
JSF Deployability and Suitability											
Enhancements, BPAC 653832	0.000	0.000	44.004		44.004	44.070	44.000	0.000	0.000	0	0
RDTEN: BA05: PE 604800M:	0.000	0.000	14.904		14.904	14.976	14.960	0.000	0.000	Continuing	Continuing
F-35B Sustainment/Capability											
Enhancements (STOVL), BPAC 3350											
	0.000	0.000	14.992		14 002	14.997	14.991	0.000	0.000	Continuing	Continuing
• RDTEN: BA05: PE 604800N, BPAC 3352: <i>F-35C Sustainment/</i>	0.000	0.000	14.992		14.992	14.997	14.991	0.000	0.000	Continuing	Continuing
Capability Enhancements (CV)											
Sapasinty Ethiancements (CV)											

PE 0604800F: *F-35 - EMD*

Air Force

UNCLASSIFIED Page 9 of 28

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
3600: Research, Development, Test & Evaluation, Air Force	PE 0604800F: <i>F-35 - EMD</i>	653831: Joint Strike Fighter
BA 5: System Development & Demonstration (SDD)		
	•	

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

			FY 2014	FY 2014	FY 2014					Cost To	
Line Item	FY 2012	FY 2013	Base	OCO	<u>Total</u>	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total Cost
• RDTEN:BA05: PE 604800M:	0.000	0.000	14.904		14.904	19.968	60.837	114.965	172.906	Continuing	Continuing
F-35B Follow-on Development											
(STOVL), BPAC 3351											
• APN: BA05: BP0592:	0.000	0.000	147.130		147.130	291.910	284.360	176.610	181.234	Continuing	Continuing
Modifications (STOVL), PE											
204146M											
• RDTEN:BA05: PE 0604800N:	0.000	0.000	11.442		11.442	19.996	60.963	115.057	173.276	Continuing	Continuing
F-35C Follow-on Development											
(CV), BPAC 3353											
• APAF: BA05: F03500: <i>JSF</i>	0.000	147.995	157.777		157.777	245.462	223.683	252.141	256.680	Continuing	Continuing
Modifications, PE 20742F, BP11										J	

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 line 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 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 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.

PE 0604800F: F-35 - EMD

Air Force

UNCLASSIFIED
Page 10 of 28

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
3600: Research, Development, Test & Evaluation, Air Force	PE 0604800F: <i>F-35 - EMD</i>	653831: Joint Strike Fighter
BA 5: System Development & Demonstration (SDD)		

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 (FY) 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. Multiyear procurement authority for the F-35 Air System will be requested for Full Rate Production. Concurrently, multiple-year, fixed-price-type Performance Based Logistics contracts for sustainment will be executed to support multi-Service and multi-national requirements.

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.

PE 0604800F: F-35 - EMD

Air Force Page 11 of 28

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

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604800F: *F-35 - EMD*

PROJECT

653831: Joint Strike Fighter

DATE: April 2013

Product Developmer	nt (\$ in M	illions)		FY	2012	FY 2	2013		2014 ase		2014 CO	FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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	27,393.270	2,008.281	Nov 2011	1,795.102	Dec 2012	761.153	Dec 2013	-		761.153	2,093.817	34,051.623	27,535.63
Lockheed Martin - IDIQ D0022	SS/ Various	Lockheed Martin:Ft. Worth, TX	11.572	17.165	Nov 2011	0.000		0.000		-		0.000	0.000	28.737	85.00
Lockheed Martin - IDIQ D0009	SS/ Various	Lockheed Martin:Ft. Worth, TX	16.759	0.000		0.000		0.000		-		0.000	0.000	16.759	68.50
Lockheed Martin - BOA	SS/ Various	Lockheed Martin:Ft. Worth, TX	3.511	0.000		0.000		0.000		-		0.000	0.000	3.511	30.00
Pratt & Whitney - SDD	SS/CPAF	Pratt &Whitney:Hartford, CT	6,906.621	277.559	Nov 2011	359.618	Nov 2012	399.749	Dec 2013	-		399.749	274.288	8,217.835	6,810.646
Pratt & Whitney - Close Out Contract C0132	SS/CPFF	Pratt &Whitney:Hartford, CT	1.364	0.000		0.000		0.000		-		0.000	0.000	1.364	1.36
Pratt & Whitney - CDP Close Out Contract C0050	SS/CPAF	Pratt &Whitney:Hartford, CT	2.211	0.000		0.000		0.000		-		0.000	0.000	2.211	2.21
Pratt & Whitney - BOA	SS/CPFF	Pratt &Whitney:Hartford, CT	35.983	0.000		0.000		0.000		-		0.000	0.000	35.983	35.98
Pratt & Whitney - IDIQ	SS/ Various	Pratt &Whitney:Hartford, CT	10.925	0.000		0.000		0.000		-		0.000	0.000	10.925	10.92
General Electric - SDD	SS/ Various	FET:Cincinnati, OH	2,155.573	5.000	Nov 2012	0.000		0.000		-		0.000	0.000	2,160.573	2,415.49
General Electric - IDIQ D0009	SS/ Various	FET:Cincinnati, OH	0.264	0.000		0.000		0.000		-		0.000	0.000	0.264	0.26
General Electric - IDIQ D0074	SS/ Various	FET:Cincinnati, OH	4.175	0.000		0.000		0.000		-		0.000	0.000	4.175	4.17
General Electric - F136 Transition	SS/CPFF	FET:Cincinnati, OH	100.400	0.000		0.000		0.000		-		0.000	0.000	100.400	100.400
General Electric - BOA	SS/ Various	FET:Cincinnati, OH	5.548	0.000		0.000		0.000		-		0.000	0.000	5.548	5.548

PE 0604800F: *F-35 - EMD*

Air Force

UNCLASSIFIED
Page 12 of 28

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

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604800F: *F-35 - EMD*

PROJECT

653831: Joint Strike Fighter

DATE: April 2013

Product Developmer	nt (\$ in Mi	llions)		FY 2	2012	FY 2	2013		2014 ise	FY 2		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
General Electric - Phase IIIb	SS/CPAF	FET:Cincinnati, OH	382.753	0.000		0.000		0.000		-		0.000	0.000	382.753	382.750
Systems Engineering	Various	Various:Various,	289.956	44.121	Nov 2011	15.601	Nov 2012	28.547	Nov 2013	-		28.547	99.915	478.140	
		Subtotal	37,320.885	2,352.126		2,170.321		1,189.449		0.000		1,189.449	2,468.020	45,500.801	

Support (\$ in Million	าร)			FY 2	2012	FY 2	2013	FY 2 Ba	2014 ise	FY 2		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
AFFTC/Eglin	Various	Various:Various,	102.435	14.298	Nov 2011	15.340	Oct 2012	5.416	Nov 2013	-		5.416	8.672	146.161	
ASC/AFRL	Various	ASC/AFRL:Wright Patterson AFB, OH	55.685	8.762	Nov 2011	8.255	Oct 2012	2.525	Nov 2013	-		2.525	5.475	80.702	
Bolling AFB	Various	Bolling AFB:Washington, DC	6.775	0.000		0.000		0.000		-		0.000	0.000	6.775	
DMEA	Various	DMEA:Wright Patterson, AFB, OH	5.630	0.000	Nov 2011	1.400	Nov 2012	0.000	Nov 2013	-		0.000	0.000	7.030	
ESC	Various	ESC:Hanscom AFB, MA	7.103	0.000	Nov 2011	0.511	Nov 2012	0.000	Nov 2013	-		0.000	0.000	7.614	
AEDC/Fuel	Various	Various:Various,	143.754	0.000	Nov 2011	23.266	Nov 2012	0.000	Nov 2013	-		0.000	0.000	167.020	
NADEP Jacksonville	Various	NADEP:Jacksonville, FL	7.880	0.000	Nov 2011	1.757	Oct 2012	0.000	Nov 2013	-		0.000	0.000	9.637	
Miscellaneous	Various	Various:Various,	226.696	51.771	Nov 2011	21.332	Nov 2012	37.488	Nov 2013	-		37.488	80.491	417.778	
NAWC China Lake	Various	NAWC WD:China Lake, CA	96.177	21.418	Nov 2011	24.833	Nov 2012	20.710	Nov 2013	-		20.710	51.927	215.065	
NAWC TSD	Various	NAWC TSD:Orlando, FL	9.680	0.000	Nov 2011	0.771	Nov 2012	0.000	Nov 2013	-		0.000	0.000	10.451	
NAWC Patuxent River	Various	NAWC AD:Patuxent River, MD	299.158	41.115	Nov 2011	42.672	Nov 2012	29.621	Nov 2013	-		29.621	100.346	512.912	
NSWC	Various	Various:Various,	3.813	0.000	Nov 2011	0.308	Nov 2012	0.000	Nov 2013	-		0.000	0.000	4.121	
SPAWAR	Various	Various:Various,	8.434	0.000	Nov 2011	0.032	Nov 2012	0.000	Nov 2013	-		0.000	0.000	8.466	

PE 0604800F: F-35 - EMD

Air Force

UNCLASSIFIED

Page 13 of 28 R-1 Line #78

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

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604800F: *F-35 - EMD*

PROJECT

653831: Joint Strike Fighter

DATE: April 2013

Support (\$ in Millions	s)			FY 2	2012	FY 2	2013	FY 2 Ba		FY 2		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SBIR Technology Insertion Congressional Add	Various	Various:Various,	24.187	0.000		0.000		0.000		-		0.000	0.000	24.187	
DFAS	Various	Various:Various,	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	
	*	Subtotal	997.407	137.364		140.477		95.760		0.000		95.760	246.911	1,617.919	

Test and Evaluation	(\$ in Milli	ons)		FY 2	2012	FY 2	2013		2014 ase	FY 2		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
NAWC Patuxent River	Various	NAWC AD:Patuxent River, MD	301.964	74.780	Nov 2011	115.186	Nov 2012	153.350	Nov 2013	-		153.350	318.568	963.848	
NAWC China Lake	Various	NAWC WD:China Lake, CA	26.630	7.581	Nov 2011	5.829	Nov 2012	3.820	Nov 2013	-		3.820	9.249	53.109	
Edwards AFB	Various	Edwards AFB:Edwards AFB, CA	340.541	23.905	Nov 2011	82.500	Nov 2012	130.000	Nov 2013	-		130.000	263.000	839.946	
Other (including Classified PIDs)	Various	Various:Various,	26.080	30.757	Nov 2011	56.449	Nov 2012	61.803	Nov 2013	-		61.803	137.987	313.076	
JITC	Various	JITC:Various,	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	
WEPS/Eglin	Various	WEPS:Eglin AFB, FL	27.829	0.000	Nov 2011	0.000		0.000		-		0.000	0.000	27.829	
OT - AFOTEC/AFFTC	Various	OT AFOTEC/ AFFTC:Various,	93.604	15.383	Nov 2011	108.518	Nov 2012	32.740	Nov 2013	-		32.740	344.578	594.823	
OT - JITC/OPTEV	Various	OT JITC/ OPTEV:Various,	6.211	0.000	Nov 2011	5.776	Oct 2012	0.000	Nov 2013	-		0.000	0.100	12.087	
		Subtotal	822.859	152.406		374.258		381.713		0.000		381.713	1,073.482	2,804.718	

PE 0604800F: *F-35 - EMD*

Air Force

UNCLASSIFIED

Page 14 of 28

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

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604800F: *F-35 - EMD*

PROJECT

653831: Joint Strike Fighter

DATE: April 2013

Management Service	s (\$ in M	illions)		FY 2	2012	FY 2	2013		2014 ise	FY 2		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Business Integration - Cost - ACT I	SS/CPFF	ACT I:Arlington, VA	5.700	2.903	Nov 2011	0.000	Dec 2012	0.000		-		0.000	1.681	10.284	18.731
Security - Mantech	C/FP	Mantech:Arlington, VA	50.978	10.500	Nov 2011	11.046	Dec 2012	11.600	Dec 2013	-		11.600	12.484	96.608	94.474
Autolog - SEIT - DRC	C/CPFF	DRC:Arlington, VA	5.916	0.000		0.000		0.000		-		0.000	0.000	5.916	
Chief Engineer - First Principles	C/CPFF	First Principles:Arlington, VA	3.016	1.988	Nov 2011	1.136	Nov 2012	1.128	Dec 2013	-		1.128	3.190	10.458	11.852
ASC Civilian Pay	Various	ASC:Wright Patterson AFB, OH	0.000	14.564	Nov 2011	35.724	Oct 2012	18.586	Oct 2013	-		18.586	76.779	145.653	
Operations - Wyle	C/CPFF	Wyle:Arlington, VA	90.871	20.774	Nov 2011	3.305	Dec 2012	4.704	Dec 2013	-		4.704	27.429	147.083	193.907
Operations - SAFTAS	C/CPAF	SAFTAS:Arlington, VA	101.734	20.529	Nov 2011	0.000	Dec 2012	3.350	Dec 2013	-		3.350	33.778	159.391	192.329
Operations - Stanley	C/CPFF	Stanley:Arlington, VA	159.020	22.350	Nov 2011	22.051	Dec 2012	24.604	Dec 2013	-		24.604	35.090	263.115	268.705
Operations- TBD	C/CPAF	TBD:Arlington, VA	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	
GE F136 Congressional Studies	Various	Various:Various,	0.800	0.000		0.000		0.000		-		0.000	0.000	0.800	
Travel and Misc	Various	Various:Various,	14.499	0.000	Nov 2011	0.000	Oct 2012	0.000	Nov 2013	-		0.000	17.652	32.151	
PMA Cost	Various	Various:Various,	0.000	0.000		45.075	Oct 2012	46.428	Oct 2013	-		46.428	0.000	91.503	
		Subtotal	432.534	93.608		118.337		110.400		0.000		110.400	208.083	962.962	

	All Prior Years	FY 2012	FY 2	2013	FY 2	2014 ase	FY 2	 FY 2014 Total	Cost To	Total Cost	Target Value of Contract
Cost Category Subtotals 3	9,573.685	2,735.504	2,803.393		1,777.322		0.000	1,777.322	3,996.496	50,886.400	
Other Service Funding Adjustment 2	2,124.599	1,369.357	1,610.887		994.987		-	994.987	2,635.387	28,735.217	-
Project Cost Totals 3	9,573.685	1,366.147	1,192.506		782.335		0.000	782.335	3,996.496	50,886.400	

Remarks

NOTE 1: Prior Years reflect \$17,449.086M USAF/\$16,874.804M USN/ 602.142 USMC / \$4,647.653M International/Total \$39,573.685M

FY 2012 reflects \$1,366.147 USAF/\$605.998M USN/\$617.695M USMC/\$145.664M International/Total \$2,735.504M

PE 0604800F: *F-35 - EMD* Air Force

UNCLASSIFIED

Page 15 of 28

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

R-1 ITEM NOMENCLATURE

PROJECT

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

PE 0604800F: *F-35 - EMD*

653831: Joint Strike Fighter

BA 5: System Development & Demonstration (SDD)

		All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To	Total Cost	Target Value of Contract
--	--	--------------------	---------	---------	-----------------	----------------	------------------	---------	---------------	--------------------------------

FY 2013 reflects \$1,192.506M USAF/\$724.392M USN/\$737.149M USMC/\$149.346M International/Total \$2,803.393M

FY 2014 reflects \$782.335M USAF/\$507.753M USN/\$482.823M USMC/\$4.411M International/Total \$1,777.322M

NOTE 2:R-2A/R-3 displays total combined service(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 FoD includes:

USAF: PE 0207142F BPAC 675346 USN: FY13 PE 0604800N BPAC 2261 USN: FY14 PE 0604800N BPAC 3353 USMC: FY13 PE 0604800M BPAC 2262 USMC: FY14 PE 0604800M BPAC 3351

PE 0604800F: F-35 - EMD

Air Force

Page 16 of 28 R-1 Line #78

Exhibit R-4. RDT&E Schedule Profile: PB 2014 Air Force

3600: Research, Development, Test & Evaluation, Air Force

R-1 ITEM NOMENCLATURE

PROJECT

APPROPRIATION/BUDGET ACTIVITY

PE 0604800F: F-35 - EMD

653831: Joint Strike Fighter

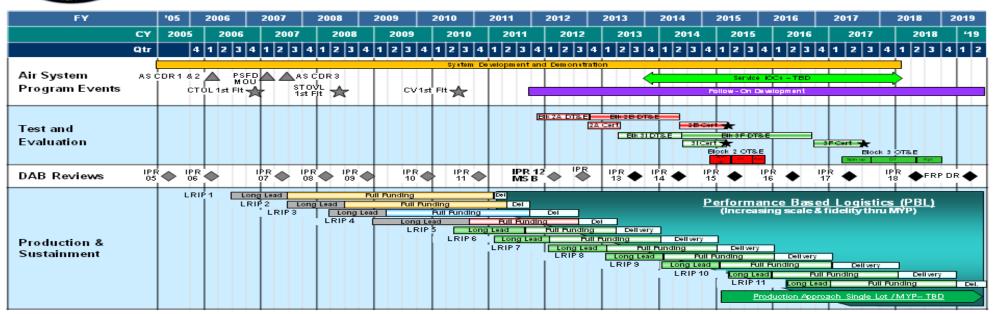
DATE: April 2013

BA 5: System Development & Demonstration (SDD)



F-35 Program Top Level Schedule

Distro A



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PE 0604800F: F-35 - EMD

Air Force

Page 17 of 28

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

APPROPRIATION/BUDGET ACTIVITY R-TITEM NOMENCIATURE PROJECT

3600: Research, Development, Test & Evaluation, Air Force

BA 5: System Development & Demonstration (SDD)

PE 0604800F: F-35 - EMD

653831: Joint Strike Fighter

Schedule Details

	Sta	art	Eı	nd
Events	Quarter	Year	Quarter	Year
Test & Evaluation: Block 2A DT&E/Cert	1	2012	3	2013
Test & Evaluation: Block 2B DT&E/Cert	1	2013	2	2015
Test & Evaluation: Block 3I DT&E/Cert	3	2013	2	2015
Test & Evaluation: Block 3F DT&E/Cert	3	2014	3	2017
Test & Evaluation: Initial Operational Test and Evaluation (IOT&E)	1	2015	4	2018
System Development Reviews: Interim Program Review (IPR) FY12-1	2	2012	2	2012
System Development Reviews: Interim Program Review (IPR) FY12-2	4	2012	4	2012
System Development Reviews: Interim Program Review (IPR) FY13	4	2013	4	2013
System Development Reviews: Interim Program Review (IPR) FY14	3	2014	3	2014
System Development Reviews: Interim Program Review (IPR) FY15	3	2015	3	2015
System Development Reviews: Interim Program Review (IPR) FY16	3	2016	3	2016
System Development Reviews: Interim Program Review (IPR) FY17	3	2017	3	2017
System Development Reviews: Interim Program Review (IPR) FY18	3	2018	3	2018

PE 0604800F: *F-35 - EMD*

Air Force

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

3600: Research, Development, Test & Evaluation, Air Force PE 0604800F: F-35 - EMD 653832: JSF DEPLOYABILITY AND

BA 5: System Development & Demonstration (SDD)

SUITABILITY ENHANCEMENT

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
653832: JSF DEPLOYABILITY AND SUITABILITY ENHANCEMENT	0.000	0.000	17.800	34.000	-	34.000	33.000	30.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Note

NOTE:

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

R-2A(section B)/R-3 displays total combined service funding (i.e. not service specific), including International partners, 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 FoD includes:

USAF: PE 0207142F BPAC 675346 USN: FY13 PE 0604800N BPAC 2261 USN: FY14 PE 0604800N BPAC 3353 USMC: FY13 PE 0604800M BPAC 2262 USMC: FY14 PE 0604800M BPAC 3351

PE 0604800F: F-35 - EMD

Air Force

UNCLASSIFIED

Page 19 of 28

^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
3600: Research, Development, Test & Evaluation, Air Force	PE 0604800F: <i>F-35 - EMD</i>	653832: JSF DEPLOYABILITY AND
BA 5: System Development & Demonstration (SDD)		SUITABILITY ENHANCEMENT

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, 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 Fight Program (OFP) 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 USN and USMC is approximately equal.
- BA5 This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full-rate production.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Sustainment and Capability Enhancements	0.000	17.800	56.867
Description: Apply disciplined systems engineering, refinement of requirements, develop and acquire suitability and maintainability of the air system such as decentralized maintenance capabilities, LO maintenance enhancements, security architecture updates, and integrated training simulators.			
FY 2013 Plans: Initiate disciplined systems engineering, requirements decomposition, technology maturation, and development of suitability and deployability enhancements.			
FY 2014 Plans: Conduct systems engineering, technology maturation, integration and test planning for Deployability and Suitability enhancements.			
Title: Development Test and Evaluation	0.000	0.000	0.639
Description: Verification and testing for deployability and suitability enhancements			
FY 2014 Plans: Initiate government test and evaluation of capability enhancements for Deployable Autonomic Logistics Information system, and Low Observable maintenance enhancements.			
Title: Development Support	0.000	0.000	6.390
Description: Initiate SDD support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities.			

PE 0604800F: F-35 - EMD

UNCLASSIFIED

Air Force Page 20 of 28 R-1 Line #78

Exhibit R-2A, RDT&E Project Justi	fication: PB	3 2014 Air Fo	orce						DATE: A	pril 2013	
3600: Research, Development, Test & Evaluation, Air Force PE 0604800F: F-35 - EMD 653						65383	PROJECT 653832: JSF DEPLOYABILITY AND SUITABILITY ENHANCEMENT				
B. Accomplishments/Planned Prog	grams (\$ in	Millions)							FY 2012	FY 2013	FY 2014
FY 2014 Plans: Initiate development enhancement s capabilities, Low Observable mainter				ecture upda	tes, and inte	grated traini	ng simulators	3.			
				Acco	mplishment	s/Planned I	Programs Su	ıbtotals	0.000	17.800	63.896
					0	ther Service	Funding Adj	ustment	-	-	29.896
							Air Force Su	ıbtotals	0.000	17.800	34.000
C. Other Program Funding Summa	ıry (\$ in Mill	ions)	EV 0044	EV 0044	EV 0044					Ocat To	
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 201	7 EV 2019	Cost To Complete	
• RDTEN: BA05: PE 0604800N: JSF SDD (CV)	605.998	724.392	507.753	<u>000</u>	507.753	570.181	450.625	254.02		Continuing	
• RDTEN: BA05: PE 0604800M: JSF SDD (STOVL)	617.695	737.149	482.823		482.823	557.360	439.945	244.04	7 96.185	Continuing	Continuing
• RDTEN:BA05: PE 0604800N: USRL, BPAC 3194	26.044	19.534	0.000		0.000	0.000	0.000	0.00	0.000	0.000	149.262
• APAF: BA01: ATA000: <i>JSF</i> CTOL,PE 0207142F, BP10	3,289.615	3,124.302	3,060.770		3,060.770	3,921.250	5,188.155	5,250.89	1 5,850.477	150,878.750	189,907.77
APAF: BA01: Line Item # ATA000: JSF CTOL Advance Procurement, PE 0207142F, BP10 AP	228.977	293.400	363.783		363.783	482.795	509.828	578.00	0 588.404	18,585.140	22,633.85
• APN: BA01: BP0147: <i>JSF (CV),</i> <i>PE 204146N</i>	1,447.097	1,007.632	1,135.444		1,135.444	1,082.046	1,468.775	2,054.69	0 2,532.068	26,737.969	45,618.67
APN: BA01: BP0147C: JSF Advance Procurement (CV), PE 204146N	109.066	65.180	94.766		94.766	132.063	185.904	246.77	9 190.141	3,364.677	5,219.579
• APN: BA01: BP0152: <i>JSF</i> (STOVL), PE 204146M	1,141.906	1,404.737	1,267.260		1,267.260	1,209.937	1,461.056	2,125.32	4 2,814.618	29,224.711	41,203.070
APN: BA01: BP0152C: JSF Advance Procurement (STOVL),PE 204146M	117.229	106.199	103.195		103.195	143.887	203.057	226.01	4 136.732	4,095.291	5,755.76

PE 0604800F: *F-35 - EMD*

Air Force Page

Exhibit R-2A, RDT&E Project Justi	fication: PB	2014 Air Fo	orce						DATE: Ap	oril 2013	
APPROPRIATION/BUDGET ACTIVI 3600: Research, Development, Test BA 5: System Development & Demon	& Evaluation				EM NOMEN 04800F: <i>F-</i> 3	NCLATURE 35 - EMD					ND
C. Other Program Funding Summary (\$ in Millions)											
		•	FY 2014	FY 2014	FY 2014					Cost To	
<u>Line Item</u>	FY 2012	FY 2013	Base	OCO	<u>Total</u>	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total Cost
International Production: JSF International Production	1,808.640	3,453.903	5,738.517		5,738.517	7,563.725	8,328.889	8,153.307	7,347.293	Continuing	Continuing
• OPN: BA04: BP4265: JSF Other	5.665	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	5.665
Procurement, PE 204261N											
OPN: BA03: BP4267: JSF Logistics Information Systems (ALIS), PE 204261N	0.000	3.826	4.827		4.827	4.554	4.604	5.729	5.830	43.558	72.928
• APAF: BA06: ATA000: JSF Initial	149.556	181.833	103.582		103.582	235.183	271.211	235.251	342.508	Continuing	Continuing
Spares											
• APN: BA06:BP0605: Initial	29.902	41.466	42.060		42.060	17.310	32.270	121.283	63.995	Continuing	Continuing
Spares (CV), PE 204146N • RDTE: BA05: PE 0604800F: JSF	1,366.147	1,192.506	782.335		782.335	621.432	486.094	175.591	77.992	Continuing	Continuino
SDD. BPAC 653831	,	,								3	
• APN: BA06: BP0605: Initial	23.430	99.006	41.707		41.707	131.216	94.193	66.423	127.264	Continuing	Continuing
Spares (STOVL), PE 204146M	0.000	0.000	44.004		44.004	40.000	00 007	444.005	470.000	0 " .	o
• RDTEN: BA05: PE 604800M: F-35B Follow-on Development	0.000	0.000	14.904		14.904	19.968	60.837	114.965	172.906	Continuing	Continuing
(STOVL), BPAC 3351			4.47.400			004.040	004000	470.040	404.004	.	
• APN: BA05: BP0592:	0.000	0.000	147.130		147.130	291.910	284.360	176.610	181.234	Continuing	Continuing
Modifications (STOVL), PE 204146M											
• MILCON: BA01: PE 207142F:	24.250	13.530	41.900		41.900	72.100	65.000	66.170	11.000	1,554.200	2,358.300
JSF Military Construction										,	,
• USN MILCON: BA01: USN JSF	144.400	117.600	209.000		209.000	320.500	151.700	48.100	0.000	830.600	2,259.300
MILCON											
• APAF: BA05: F03500: <i>JSF Modifications, PE 20742F, BP11</i>	0.000	147.995	157.777		157.777	245.462	223.683	252.141	256.680	Continuing	Continuing
• RDTE: BA07: PE 207142F: JSF Follow-on Development (FoD), BPAC 675346	0.000	8.117	23.000		23.000	104.866	132.174	229.912	300.050	Continuing	Continuing
• International R&D: International R&D (SDD/FOD)	145.664	149.346	4.411		4.411	0.000	0.000	0.000	0.000	0.000	4,947.074

PE 0604800F: *F-35 - EMD*

Air Force

UNCLASSIFIED Page 22 of 28

D 4 ITEM NOMENCI ATLIDE

3600: Research, Development, Test BA 5: System Development & Demo	& Evaluation,				EM NOMEN 04800F: <i>F-3</i>			PROJECT 653832: JSF DEPLOYABILITY AND SUITABILITY ENHANCEMENT			ND
C. Other Program Funding Summa	ary (\$ in Milli	ons)									
			FY 2014	FY 2014	FY 2014					Cost To	
Line Item	FY 2012	FY 2013	Base	OCO	<u>Total</u>	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total Cost
• OPAF: BA01: 821800: Joint	0.000	0.600	2.200		2.200	2.943	2.471	2.345	2.387	0.000	12.946
Strike Fighter, PE 0207152F											
• RDTEN:BA05: PE 604800M:	0.000	0.000	14.904		14.904	14.976	14.960	0.000	0.000	Continuing	Continuing
F-35B Sustainment/Capability											
Enhancements (STOVL), BPAC											
3350											
• RDTEN: BA05: PE 604800N:	0.000	0.000	14.992		14.992	14.997	14.991	0.000	0.000	Continuing	Continuing
F-35C Sustainment/Capability											
Enhancements (CV), BPAC 3352											
• RDTEN:BA05: PE 604800N:	0.000	0.000	11.442		11.442	19.996	60.963	115.057	173.276	Continuing	Continuing
F-35C Follow-on Development											
(CV, BPAC 3353)											
• RDTE: BA07:PE 207142F: Dual	9.682	0.000	10.000		10.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Capable Aircraft (DCA), BPAC											
676011											

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.

31.100

52.900

62.130

98.980

Note: The USAF/USN/USMC PROCUREMENT line 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 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

APN: BA05: BP0593:

Modifications (CV), PE 204146N

Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force

0.000

0.000

31.100

ADDDODDIATION/DUDGET ACTIVITY

Implement JSF Joint Executive Steering Board (JESB)/Configuration Steering Board (CSB) approved enhancements to existing capabilities through existing contracts using the engineering change proposal process. When appropriate, new cost type contracts may be established.

PE 0604800F: F-35 - EMD

Air Force

UNCLASSIFIED
Page 23 of 28

R-1 Line #78

DATE: April 2013

102.456 Continuing Continuing

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604800F: F-35 - EMD	PROJECT 653832: JSF DEPLOYABILITY AND SUITABILITY ENHANCEMENT
E. Performance Metrics Please refer to the Performance Base Budget Overview Book for inf Force performance goals and most importantly, how they contribute		d and how those resources are contributing to Air

PE 0604800F: *F-35 - EMD* Air Force

UNCLASSIFIED

DATE: April 2013 Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE PROJECT** 3600: Research, Development, Test & Evaluation, Air Force PE 0604800F: F-35 - EMD 653832: JSF DEPLOYABILITY AND SUITABILITY ENHANCEMENT BA 5: System Development & Demonstration (SDD) FY 2014 FY 2014 FY 2014 **Product Development (\$ in Millions)** FY 2012 FY 2013 Base oco Total Contract Target Method Performing All Prior Award Award Award Award **Cost To** Total Value of **Cost Category Item** & Type **Activity & Location** Years Cost Date Date Cost Date Cost Date Complete Cost Contract Cost Cost Prime LM Deployability & SS/CPAF LM:Ft Worth, TX 0.000 0.000 17.800 Jul 2013 56.867 Dec 2012 56.867 109.461 184.128 184.234 Suitability Enhancements Subtotal 0.000 0.000 17.800 56.867 0.000 56.867 109.461 184.128 184.234 FY 2014 FY 2014 FY 2014 Support (\$ in Millions) FY 2012 FY 2013 Base oco Total Contract Target Method Performing All Prior Award Award Award Award Cost To Total Value of **Cost Category Item** & Type Activity & Location Years Cost Date Cost Date Cost Date Cost Date Cost Complete Cost Contract **Development Support TBD** 0.000 0.000 6.390 Dec 2013 6.390 12.299 18.689 Various: Various. 0.000 18.700 Subtotal 0.000 0.000 0.000 6.390 0.000 6.390 12.299 18.689 18.700 FY 2014 FY 2014 FY 2014 Test and Evaluation (\$ in Millions) FY 2012 FY 2013 Base oco Total Contract **Target** Method Performing All Prior Award Award Award Award **Cost To** Value of Total **Cost Category Item** & Type Activity & Location Years Cost Date Cost Date Cost Date Cost Date Cost Complete Cost Contract Developmental Test & WR 0.000 0.000 0.000 0.639 Dec 2013 0.639 1.230 1.869 Various: Various, Evaluation 0.000 Subtotal 0.000 0.000 0.639 0.000 0.639 1.230 1.869 FY 2014 FY 2014 FY 2014 Management Services (\$ in Millions) oco FY 2012 FY 2013 Base Total Contract Target Method All Prior **Cost To** Value of Performing Award Award Award Award Total **Cost Category Item** & Type **Activity & Location** Years Cost Date Cost Date Cost Date Cost Date Cost Complete Cost Contract Subtotal 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 Target All Prior FY 2014 FY 2014 FY 2014 **Cost To** Total Value of Years FY 2013 FY 2012 Base oco Total Complete Cost Contract **Cost Category Subtotals** 0.000 0.000 17.800 63.896 0.000 63.896 122.990 204.686 Other Service Funding Adjustment 29.896 29.896 59.990 89.886

PE 0604800F: *F-35 - EMD*

Air Force

Project Cost Totals

0.000

0.000

UNCLASSIFIED

17.800

Page 25 of 28

34.000

R-1 Line #78

0.000

34.000

122.990

204.686

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

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

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3600: Research, Development, Test & Evaluation, Air Force PE 0604800F: F-35 - EMD 653832: JSF DEPLOYABILITY AND SUITABILITY ENHANCEMENT

Target FY 2014 All Prior FY 2014 FY 2014 Cost To Value of Total oco Years FY 2012 FY 2013 Base Total Complete Cost Contract

Remarks

NOTE: R-2A/R-3 displays combined service funding for JSF Engineering Manufacturing and 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

PE 0604800F: F-35 - EMD

Air Force Page 26 of 28

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604800F: *F-35 - EMD*

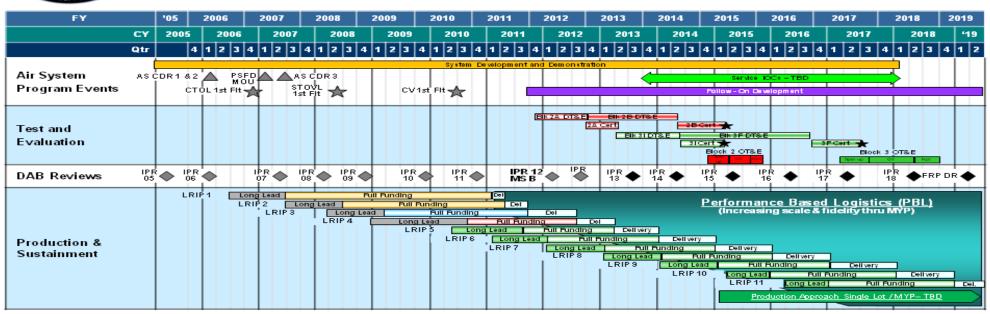
PROJECT 653832: *JSF DEPLOYABILITY AND*

SUITABILITY ENHANCEMENT



F-35 Program Top Level Schedule

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PE 0604800F: *F-35 - EMD*

Air Force

Page 27 of 28

DATE: April 2013 Exhibit R-4A, RDT&E Schedule Details: PB 2014 Air Force

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE **PROJECT**

3600: Research, Development, Test & Evaluation, Air Force PE 0604800F: *F-35 - EMD*

653832: JSF DEPLOYABILITY AND BA 5: System Development & Demonstration (SDD) SUITABILITY ENHANCEMENT

Schedule Details

	St	art	End		
Events	Quarter	Year	Quarter	Year	
Contract Award	3	2013	3	2013	
Deployment and Suitability Enhancement Efforts	3	2013	4	2016	

PE 0604800F: F-35 - EMD

Air Force