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

Date: February 2018

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 5: System

PE 0604800F / F-35 - EMD

Development & Demonstration (SDD)

COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost		
Total Program Element	49,382.978	433.903	292.947	69.001	0.000	69.001	7.743	5.551	0.013	0.000	0.000	50,192.136		
653831: Joint Strike Fighter	49,044.533	386.941	255.745	69.001	0.000	69.001	7.743	5.551	0.013	0.000	0.000	49,769.527		
653832: JSF DEPLOYABILITY AND SUITABILITY ENHANCEMENT	338.445	46.962	37.202	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	422.609		

Program MDAP/MAIS Code: 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 USN, USAF, USMC and allies. The three variants are the F-35A conventional takeoff and landing; F-35B short takeoff and vertical landing; and the F-35C Aircraft Carrier suitable variant. The F-35A 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 F-35B variant will be a multi-role strike fighter aircraft to replace the AV-8B and F/A-18 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 F-35C will provide the Department of the Navy a multi-role, stealthy strike fighter aircraft to complement the F/A-18E/F.

The United Kingdom, Italy, Netherlands, Turkey, Canada, Australia, Denmark, Norway, and Foreign Military Sales customers are also participants in the JSF program. The program shown here reflects USN, USMC, 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 System Development and Demonstration (SDD) budget funds a total quantity of 20 RDT&E test articles to include 6 ground test articles and 14 flight test articles for USN, USAF, and USMC use.

FY07: 1 F-35A flight test article

FY08: 1 F-35B flight test article; 1 F-35B ground test article FY09: 1 F-35B flight test article; 2 F-35A ground test articles

FY10: 6 flight test articles: 3 F-35A, 2 F-35B, 1 F-35C; 3 ground test articles: 1 F-35B, 2 F-35C

FY11: 4 flight test articles: 1 F-35A, 1 F-35B, 2 F-35C

FY13: 1 F-35C flight test article

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

PE 0604800F: F-35 - EMD

Air Force

UNCLASSIFIED

Page 1 of 26

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

Date: February 2018

Appropriation/Budget Activity

3600: Research, Development, Test & Evaluation, Air Force I BA 5: System

Development & Demonstration (SDD)

R-1 Program Element (Number/Name)

PE 0604800F / F-35 - EMD

B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	450.467	292.947	69.655	0.000	69.655
Current President's Budget	433.903	292.947	69.001	0.000	69.001
Total Adjustments	-16.564	0.000	-0.654	0.000	-0.654
 Congressional General Reductions 	0.000	0.000			
 Congressional Directed Reductions 	0.000	0.000			
 Congressional Rescissions 	0.000	0.000			
 Congressional Adds 	0.000	0.000			
 Congressional Directed Transfers 	0.000	0.000			
 Reprogrammings 	0.000	0.000			
SBIR/STTR Transfer	-16.564	0.000			
Other Adjustments	0.000	0.000	-0.654	0.000	-0.654

Change Summary Explanation

FY17 Other reduction for SBIR (\$16.484M) and FFRDC (\$80K).

PE 0604800F: *F-35 - EMD*

Air Force

Exhibit R-2A, RDT&E Project J		Date: February 2018										
Appropriation/Budget Activity 3600 / 5			, , , , , , , , , , , , , , , , , , , ,					Number/Name) Joint Strike Fighter				
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
653831: Joint Strike Fighter	49,044.533	386.941	255.745	69.001	0.000	69.001	7.743	5.551	0.013	0.000	0.000	49,769.527
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Total cost including United States Navy (USN), United States Marine Corps (USMC), International partner contributions and United States Air Force (USAF) funding are: FY17

\$1,394.043, FY18 \$527.873M and FY19 \$196.622M R-2 data reflects variant unique funding only.

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

F-35 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

Funding for D&S in prior years for USAF totals: \$238.599M through FY18. Funding for D&S in prior years for USMC totals: \$136.074M through FY18.

Funding for D&S in prior years for USN totals: \$140.217M through FY18; \$4.957M in FY19.

A. Mission Description and Budget Item Justification

The F-35 Joint Strike Fighter (JSF) Program will develop and field an affordable, highly common family of next generation strike aircraft for the USN, USAF, USMC and allies. The three variants are the F-35A conventional takeoff and landing; F-35B short takeoff and vertical landing; and the F-35C Aircraft Carrier suitable variant. The F-35A 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 F-35B variant will be a multi-role strike fighter aircraft to replace the AV-8B and F/A-18 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 F-35C will provide the Department of the Navy a multi-role, stealthy strike fighter aircraft to complement the F/A-18E/F.

The United Kingdom, Italy, Netherlands, Turkey, Canada, Australia, Denmark, Norway, and Foreign Military Sales customers are also participants in the JSF program. The program shown here reflects USN, USMC, USAF, and International Partner funding.

PE 0604800F: F-35 - EMD

Air Force

UNCLASSIFIED
Page 3 of 26

Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force			Date: February 2018
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
3600 / 5	PE 0604800F / F-35 - EMD	653831 / Jo	oint Strike Fighter

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 System Development and Demonstration (SDD) budget funds a total quantity of 20 RDT&E test articles to include 6 ground test articles and 14 flight test articles for USN, USAF, and USMC use.

FY07: 1 F-35A flight test article

FY08: 1 F-35B flight test article; 1 F-35B ground test article FY09: 1 F-35B flight test article; 2 F-35A ground test articles

FY10: 6 flight test articles: 3 F-35A, 2 F-35B, 1 F-35C; 3 ground test articles: 1 F-35B, 2 F-35C

FY11: 4 flight test articles: 1 F-35A, 1 F-35B, 2 F-35C

FY13: 1 F-35C flight test article

B. Accomplishments/Planned Programs (\$ in Millions)			FY 2019	FY 2019	FY 2019
	FY 2017	FY 2018	Base	oco	Total
Title: System Development and Demonstration (SDD) (F-35 JSF)	899.508	331.782	163.647	0.000	163.647
Description: 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 2018 Plans: Complete SDD execution of Air System Lockheed Martin, including International Commonality Effort which include, airframe, vehicle systems, mission systems, autonomic logistics, systems engineering, and integrated test efforts. Activity aligned to IMS in accordance with variant IOC.					
FY 2019 Base Plans: Continue SDD execution of Air System Lockheed Martin, including International Commonality Effort which includes, airframe, vehicle systems, mission systems, autonomic logistics, systems engineering, and integrated test efforts. Activity aligned to IMS in accordance with variant IOC.					
FY 2019 OCO Plans: N/A					
FY 2018 to FY 2019 Increase/Decrease Statement: See comments above.					
Title: F135 Propulsion System (F-35 JSF)	120.000	0.000	0.000	0.000	0.000
Description: SDD execution of the F135 Propulsion System with Pratt & Whitney that includes engine testing, autonomic logistics, integration and performing technology maturation efforts.					

PE 0604800F: *F-35 - EMD*

Air Force

Page 4 of 26

Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force				Date: Febr	uary 2018				
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number PE 0604800F / F-35 - EMD	r/Name)		Project (Number/Name) 653831 / Joint Strike Fighter					
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total			
FY 2018 Plans: N/A									
FY 2019 Base Plans: N/A									
FY 2019 OCO Plans: N/A									
FY 2018 to FY 2019 Increase/Decrease Statement: See comments above.									
Title: Systems Engineering (SE) (F-35 JSF)		28.181	0.912	0.000	0.000	0.00			
Description: SDD SE including systems operations requirements integration, and interoperability support.	s analysis, program integration, requirements								
FY 2018 Plans: Complete SDD SE, including systems operations requirements a integration, and interoperability support.	nalysis, program integration, requirements								
FY 2019 Base Plans: N/A									
FY 2019 OCO Plans: N/A									
FY 2018 to FY 2019 Increase/Decrease Statement: See comments above.									
Title: Development Test and Evaluation (DT&E) (F-35 JSF)		265.188	143.809	4.293	0.000	4.29			
Description: Government DT&E/Operational Testing (OT) in sup DT&E includes preparation for flight testing and weapons integrated the support of the suppor									
FY 2018 Plans:									

PE 0604800F: *F-35 - EMD*

Air Force

UNC	CLASSIFIED							
Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force				Date: Febr	uary 2018			
	R-1 Program Element (Number/ PE 0604800F <i>l F-35 - EMD</i>	Name)	Project (Number/Name) 653831 / Joint Strike Fighter					
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total		
Complete government DT&E/OT in support of test aircraft. Continue flight science and CV variants to expand air vehicle envelope and support mission systems tellight testing, weapons integration testing, and component capabilities testing.								
FY 2019 Base Plans: Continue government DT&E/OT in support of test aircraft. Continue flight scienc and CV variants to expand air vehicle envelope and support mission systems te flight testing, weapons integration testing, and component capabilities testing.								
FY 2019 OCO Plans: N/A								
FY 2018 to FY 2019 Increase/Decrease Statement: See comments above.								
Title: Development Support (F-35 JSF)		80.945	10.676	0.764	0.000	0.764		
Description: SDD Support efforts for airframe, air vehicle systems, mission systems mission support, and autonomic logistics development activities.	tems, weapons integration,							
FY 2018 Plans: Complete SDD support efforts for airframe, air vehicle systems, mission systems support, and autonomic logistics development activities.	s, weapons integration, mission							
FY 2019 Base Plans: Continue SDD support efforts for airframe, air vehicle systems, mission systems support, and autonomic logistics development activities.	s, weapons integration, mission							
FY 2019 OCO Plans: N/A								
FY 2018 to FY 2019 Increase/Decrease Statement: See comments above.								
Title: Autonomic Logistics Information System (ALIS)		0.221	40.694	27.400	0.000	27.400		
Description: SDD execution of Autonomic Logistics Information System (ALIS) infrastructure used to transmit health and maintenance action information for the users.								

PE 0604800F: *F-35 - EMD*

Air Force

UNCLASSIFIED Page 6 of 26

				UNCLAS	SIFIED							
Exhibit R-2A, RDT&E Project Justi	fication: PB	2019 Air Fo	orce						Date: Feb	ruary 2018		
Appropriation/Budget Activity 3600 / 5					rogram Elei 04800F / <i>F-</i> -	ment (Number 35 - EMD	/Name)		(Number/Name) I Joint Strike Fighter			
B. Accomplishments/Planned Prog	grams (\$ in N	<u>/lillions)</u>					FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	
FY 2018 Plans: Continue SDD execution of ALIS to omaintenance action information for the	•			used to trans	smit health	and						
FY 2019 Base Plans: Continue SDD execution of ALIS to a maintenance action information for the				used to trans	smit health	and						
FY 2019 OCO Plans: N/A												
FY 2018 to FY 2019 Increase/Decrease See comments above.	ease Statem	ent:										
Title: Other Service Funding Adjustr	nent (F-35 JS	SF)					0.000	0.000	0.000	-	0.000	
Description: Balancer line												
FY 2018 Plans: Balancer Line												
FY 2019 Base Plans: Continue SDD execution of ALIS to a maintenance action information for the state of the s				used to trans	smit health a	and						
FY 2018 to FY 2019 Increase/Decrease comments above.	ease Statem	ent:										
			Accomplis	hments/Plar	ned Progra	ams Subtotals	1,394.043	527.873	196.104	0.000	196.104	
				Other S	ervice Fund	ing Adjustment	1,007.102	272.128	127.103	-	127.103	
					Air Fo	rce Subtotals	386.941	255.745	69.001	0.000	69.001	
C. Other Program Funding Summa	ıry (\$ in Milli	ons)	FY 2019	FY 2019	FY 2019					Cost To		
Line Item	FY 2017	FY 2018	Base	OCO	Total	FY 2020	FY 2021	FY 2022	FY 2023	Complete	Total Cost	
RDTE 05 PE 0604800F 3832: JSF Deployability and Suitability Enhancements, BPAC 653832	46.962	37.202	-	<u>-</u>	<u>-</u>	-	-	-		Continuing		

PE 0604800F: *F-35 - EMD*

UNCLASSIFIED

Air Force Page 7 of 26 R-1 Line #89

Exhibit R-2A, RDT&E Project Justi	fication: PB	2019 Air Fo				Date: February 2018						
Appropriation/Budget Activity					Program Eler	•	er/Name)		Number/Name)			
3600 / 5				PE	0604800F <i>I F-</i>	35 - EMD		653831 <i>I</i>	Joint Strike Fighter			
C. Other Program Funding Summa	ry (\$ in Milli	ons)										
	-	-	FY 2019	FY 2019	FY 2019					Cost To		
Line Item	FY 2017	FY 2018	Base	OCC	<u>Total</u>	FY 2020	FY 2021	FY 2022	FY 2023	Complete	Total Cost	
• RDTE 05 PE 0604800N	489.144	103.144	60.537	-	60.537	1.499	0.328	0.323	0.345	Continuing	Continuing	
2261: JSF SDD (CV)												
• RDTE 05 PE 0604800N	23.518	5.787	4.957	-	4.957	-	-	-	-	Continuing	Continuing	
3352: F-35C Sustainment/												
Capability Enhancements (CV)												
• RDTE 05 PE 0604800M	495.958	141.534	66.566	-	66.566	1.713	0.542	0.558	0.569	0.000	707.440	
2262: JSF SDD (STOVL)												
• RDTE 05 PE 0604800M	23.435	11.400	-	-	-	_	-	-	-	Continuing	Continuing	
3350: F-35B Sustainment/												
Capability Enhancements												
(STOVL), BPAC 3350												
• International 1: International SDD	0.000	27.450	-	-	-	_	-	-	-	Continuing	Continuing	
Remarks												

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.

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 procurement 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.

PE 0604800F: F-35 - EMD

Air Force

Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force		Date: February 2018
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604800F / F-35 - EMD	Project (Number/Name) 653831 / Joint Strike Fighter
Multiyear procurement authority for the F-35 Air System will be Logistics contracts for sustainment will be requested to support		year, fixed-price-type Performance Based
E. Performance Metrics Please refer to the Performance Base Budget Overview Book for Force performance goals and most importantly, how they contribute.		now those resources are contributing to Air

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

UNCLASSIFIED Page 9 of 26

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

Appropriation/Budget ActivityR-1 Program Element (Number/Name)Project (Number/Name)3600 / 5PE 0604800F / F-35 - EMD653831 / Joint Strike Fighter

FY 2019 FY 2019 FY 2019 **Product Development (\$ in Millions)** oco Total FY 2017 FY 2018 Base Contract Target **Award** Method Performing Prior Award Award Award **Cost To** Total Value of **Activity & Location Cost Category Item** & Type Years Cost Date Cost Date Cost Date Cost Date Cost Complete Cost Contract Lockheed Martin: Ft. SS/CPIF 748.290 Dec 2016 Lockheed Martin - SDD 31,298.696 274.720 Dec 2017 161.147 Dec 2018 161.147 19.761 32,502.61432,478.481 Worth, TX Lockheed Martin - SDD Lockheed Martin: Ft. SS/CPIF 1.727.259 11.430 Dec 2016 35.000 Dec 2017 2.500 Dec 2018 2.500 0.000 | 1,776.189 | 1,776.189 Worth, TX Fee Lochkheed Martin: Lockheed Martin -0031 SS/CPFF 0.337 0.506 Dec 2016 0.169 Dec 2017 0.000 1.012 1.012 Ft. Worth, TX Lockheed Martin: Ft. Lockheed Martin - BOA SS/CPFF 139.281 Dec 2016 21.893 Dec 2017 243.012 243.012 81.838 0.000 Worth, TX 0020 Lockheed Martin - BOA Lockheed Martin: Ft. SS/CPFF 0.000 0.000 15.856 Worth, TX 0016 Pratt &Whitney: SS/CPIF 105.448 Dec 2016 Pratt & Whitney - SDD 7 296 328 0.000 7.401.776 7.401.776 Hartford, CT Pratt &Whitney: SS/CPIF 14.552 Dec 2016 Pratt & Whitney - Fee 677.646 0.000 692.198 692.198 Hartford, CT Systems Engineering Various Various: Various 435.371 23.577 Nov 2016 0.911 Dec 2017 0.000 0.000 0.000 459.859 459.859 Prime LM 02-C-3002 ALIS SS/CPAF LM: Ft Worth, TX 462.317 0.221 Dec 2016 40.694 Dec 2017 27.400 27.400 0.000 530.632 530.632 Prior Year not funded in Various Various: Various 2,909.122 0.000 0.000 0.000 0.000 0.000 | 2,909.122 | 2,893.266 **FYDP**

Remarks

Contract type prior to 2013 was CPAF.

Cumulative Award Fee earned in prior years for Lockheed Martin is 86%.

Cumulative Award Fee earned in prior years for Pratt and Whitney is 94%.

Subtotal 44,888.914 1,043.305

Support (\$ in Millions)			FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
AFFTC/Eglin	Various	Various : Various	138.926	1.834	Nov 2016	0.830	Nov 2017	0.000		-		0.000	0.000	141.590	141.590
AFLCMC/AFRL	Various	AFLCMC/AFRL : Various	75.829	3.133	Nov 2016	-		0.000		-		0.000	0.000	78.962	78.962
AFTOC/Fuel	Various	Various : Various	199.947	3.771	Nov 2016	-		-		-		-	0.000	203.718	203.718

373.387

PE 0604800F: *F-35 - EMD*

1 E 000+0001:1 00 EME

Air Force

191.047

191.047

19.761 46,516.414

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Air Force Date: February 2018

Appropriation/Budget Activity R-1 Program Element (Number/Name) Project (Number/Name)

3600 / 5 PE 0604800F / F-35 - EMD 653831 Ì Joint Strike Fighter

Support (\$ in Million				FY 2017		FY 2018		FY 2 Ba	2019 ise	FY 2019 OCO		FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Miscellaneous	Various	Various : Various	123.516	12.356	Nov 2016	2.927	Nov 2017	0.764	Nov 2018	-		0.764	0.000	139.563	139.563
NAWC China Lake	Various	NAWC WD : China Lake, CA	163.175	4.312	Nov 2016	-		-		-		-	0.000	167.487	167.487
NAWC Patuxent River	Various	NAWC AD : Patuxent River, MD	505.484	41.726	Nov 2016	6.913	Nov 2017	-		-		-	0.000	554.123	554.123
Prior Year no longer funded in FYDP	Various	Various : Various	77.641	-		-		-		-		-	0.000	77.641	77.641
	Subtotal 1,284.518			67.132		10.670		0.764		-		0.764	0.000	1,363.084	N/A

Test and Evaluation	(\$ in Milli	ons)		FY 2	2017	FY 2	2018	FY 2 Ba			2019 CO	FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
NAWC China Lake	Various	NAWC WD : China Lake, CA	40.545	2.712	Nov 2016	-		-		-		-	0.000	43.257	-
Development Test and Evaluation	Various	NAWC AD : Patuxent River, MD	752.168	46.702	Nov 2016	4.400	Oct 2017	-		-		-	0.000	803.270	-
Edwards AFB	Various	Edwards AFB : Edwards AFB, CA	683.943	46.734	Nov 2016	4.400	Nov 2017	-		-		-	0.000	735.077	-
Other (including Classified PIDs)	Various	Various : Various	241.272	30.602	Nov 2016	2.400	Nov 2017	-		-		-	0.000	274.274	-
WEPS/Eglin	Various	WEPS : Eglin AFB, FL	-	-		-		-		-		-	0.000	0.000	-
OT - AFOTEC/AFFTC	Various	OT AFOTEC/ AFFTC : Various	204.545	35.436	Nov 2016	41.976	Nov 2017	2.150		-		2.150	0.000	284.107	-
OT - JITC/OPTEV	Various	OT JITC/OPTEV : Various	61.243	42.956	Nov 2016	71.886	Nov 2017	2.143		-		2.143	0.000	178.228	-
OT CHLK	Various	NAWC WD : China Lake, CA	3.999	9.912	Nov 2016	15.392		0.000		-		0.000	0.000	29.303	-
OT - Various	Various	Various : Various	7.823	2.775	Nov 2016	3.274	Nov 2017	-		-		-	0.000	13.872	-
Prior Year no longer funded in FYDP	Various	Various : TBD	27.829	-		-		-		-		-	0.000	27.829	-

PE 0604800F: F-35 - EMD

Air Force

Exhibit R-3, RDT&E			2019 Air F	orce									February) htter o Total Cost 00 2,389.217 o Total Cost 00 15.882 00 130.581 00 41.785 00 2.405 00 5.845 00 0.493 00 75.126 00 20.277 00 27.261 00 593.944 00 0.000 00 913.599	
Appropriation/Budg 3600 / 5	et Activity	/					ogram Ele 4800F <i>I F</i>			ame)		(Numbe		er	
Test and Evaluation	(\$ in Milli	ons)		FY 2	2017	FY 2	2018	FY 2 Ba			2019 CO	FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To		Target Value of Contract
<u> </u>		Subtotal	2,023.367	217.829		143.728		4.293		-		4.293		2,389.217	N/A
Management Servic	es (\$ in M	lillions)		FY 2	2017	FY 2	2018	FY 2 Ba	2019 se	FY 2	2019 CO	FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	1	Target Value of Contract
Security - System High BOS	C/FP	System High : Arlington, VA	7.845	8.037	Dec 2016	-		-		-		-	0.000	15.882	15.882
AFLCMC Civilian Pay	Various	AFLCMC : Wright Patterson AFB, OH	120.311	10.270	Oct 2016	-		-		-		-	0.000	130.581	0.000
OPS-Jacobs BOSS	Various	TBD : Arlington, VA	32.772	9.013	Dec 2016	-		-		-		-	0.000	41.785	0.000
OPS- Allutiiq/E3	C/CPAF	TBD : Arlington, VA	2.213	0.192	Dec 2016	-		-		-		-	0.000	2.405	2.405
OPS - Cost/FM/EV	Various	TBD : Arlington, VA	2.000	3.845	Dec 2016	-		-		-		-	0.000	5.845	0.000
Andrews AFB	Various	TBD : Camp Springs, MD	0.358	0.135	Dec 2016	-		-		-		-	0.000	0.493	0.000
Program Management Support - BOS	C/CPFF	Jacobs : Arlington, VA	50.440	24.686	Dec 2016	-		-		-		-	0.000	75.126	0.000
CIO ODCs	C/CPAF	Various : Various	13.021	7.256	Dec 2016	-		-		-		-	0.000	20.277	0.000
Travel	C/CPAF	Various : Various	24.830	2.343	Oct 2016	0.088	Dec 2017	-		-		-	0.000	27.261	0.000
Prior Year not funded in FYDP	Various	Various : Various	593.944	-		-		-		-		-	0.000	593.944	0.000
Other Service Funding Adjustment	TBD	Not specified. : NV	-	0.000	Nov 2016	0.000	Nov 2018	-		-		-	0.000	0.000	-
		Subtotal	847.734	65.777		0.088		-		-		-	0.000	913.599	N/A
Remarks Cumulative Award Fee ea	rned in prior	years for Stanley is 99%	6.									_			
			Prior Years	FY 2	2017	FY 2	2018	FY 2 Ba	2019 se	FY 2	2019 CO	FY 2019 Total	Cost To		Target Value of Contract
	Co	st Category Subtotals				527.873		196.104			-	196.104		-	-

PE 0604800F: *F-35 - EMD*

Air Force

Exhibit R-3, RDT&E Project Cost Analysis: PB 2	2019 Air F	orce							Date:	February	2018	
Appropriation/Budget Activity 3600 / 5					•	ement (N 35 - EM	umber/Na	ame)	 (Number I Joint St	,	er	
	Prior Years	FY:	2017	FY 2	2018	1	2019 ise	FY 2	 FY 2019 Total	Cost To	Total Cost	Target Value of Contract
Other Service Funding Adjustment	-	1,007.102		272.128		127.103		-	127.103			-
Project Cost Totals	49,044.533	386.941		255.745		69.001		-	69.001	19.761	51,182.314	-

Remarks

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.

NOTE 1: Prior Years reflect \$21,601.831M USAF/\$19,311.879M USN/\$3,166.810M USMC /\$4,964.013 International/Total \$49,044.533M FY 2017 reflects \$386.941M USAF/\$489.144M USN/\$495.958M USMC/\$22.000M International/Total \$1,394.043M FY 2018 reflects \$255.745M USAF/\$103.144M USN/\$141.534M USMC/\$27.450M International/Total \$ 527.873M FY 2019 reflects \$ 69.001M USAF/\$ 60.537M USN/\$ 66.566M USMC/\$ 0.000M International/Total \$ 196.104

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

UNCLASSIFIED

Page 13 of 26

khibit R-4, RDT&E Schedule Profile: PB 2019 Ai	r Force													Date	: Fe	bruar	y 20	18	
propriation/Budget Activity 00 / 5				R-1 P i PE 06					Nan	ne)				u mbe oint S					
	FY 20	17 3 4	 Y 2018		FY 1 2	2019	4 1	 2020	4		Y 20	21 3 4	1	FY 2	2022	4		202	_
JSF Variants - CV, STOVL & CTOL																			
Acquisition Milestones: F-35C Initial Operational Capability																			
Test & Evaluation: Test and Evaluation: Block 3F DT&E/Cert																			
Test & Evaluation: Test and Evaluation: Initial Operational Test and Evaluation (IOT&E)																			
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY18																			
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY19																			
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY20																			
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY21														I					
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 10 Full Funding / Production / Delivery																			
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 11 Full Funding / Production / Delivery																			
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 12 Full Funding / Production / Delivery																			

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

UNCLASSIFIED
Page 14 of 26

chibit R-4, RDT&E Schedule Profile: PB 2019 Appropriation/Budget Activity	Air Ford	ce												t (Nu		er/N	am	e)			ject (Number/Name) 831 / Joint Strike Fighter									
	F	Y 20	017			FY	201				201		T		20 2	20		F١)21				202		19			023	
	1	2	3	4	1	2	3	4	1	2	3	4		1 2	2 3	3 4	ı ·	1 2	2	3	4	1	2	3	4		1	2	3	4
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 13 Full Funding / Production / Delivery																														
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 14 Full Funding / Production / Delivery																														
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 15 Full Funding / Production / Delivery																														

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

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Air Force			Date: February 2018
PP - P	1	- 3 (umber/Name)
3600 / 5	PE 0604800F <i>I F-35 - EMD</i>	653831 I J	oint Strike Fighter

Schedule Details

	Sta	art	En	d
Events by Sub Project	Quarter	Year	Quarter	Year
ISF Variants - CV, STOVL & CTOL				
Acquisition Milestones: F-35C Initial Operational Capability	4	2018	4	2018
Test & Evaluation: Test and Evaluation: Block 3F DT&E/Cert	1	2017	2	2018
Test & Evaluation: Test and Evaluation: Initial Operational Test and Evaluation (IOT&E)	2	2018	1	2020
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY18	1	2019	1	2019
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY19	1	2020	1	2020
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY20	1	2021	1	2021
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY21	1	2022	1	2022
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 10 Full Funding / Production / Delivery	2	2019	2	2020
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 11 Full Funding / Production / Delivery	1	2020	1	2021
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 12 Full Funding / Production / Delivery	2	2020	2	2021
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 13 Full Funding / Production / Delivery	2	2021	1	2022
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 14 Full Funding / Production / Delivery	2	2022	4	2023
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 15 Full Funding / Production / Delivery	2	2023	4	2023

PE 0604800F: *F-35 - EMD*

Air Force

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Air Ford	ce	Date: February 2018
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604800F / F-35 - EMD	Project (Number/Name) 653831 / Joint Strike Fighter
Note Note		,
Schedule details reflect fiscal years		

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

UNCLASSIFIED Page 17 of 26

Exhibit R-2A, RDT&E Project Ju	stification:	PB 2019 A	ir Force							Date: Febr	uary 2018	
Appropriation/Budget Activity 3600 / 5					R-1 Progra PE 060480	a m Elemen 10F <i>I F-35 -</i>	•	Name)	Project (N 653832 / J SUITABILI	SF DEPLO	YÁBILITY AI	ND
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
653832: JSF DEPLOYABILITY AND SUITABILITY ENHANCEMENT	338.445	46.962	37.202	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	422.609
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Total cost including United States Navy (USN), United States Marine Corps (USMC), United States Air Force (USAF) funding and International Partner contributions to D&S is: FY2016 \$184.378M, FY2017 \$125.862M, FY2018 \$61.770M and FY19 \$4.957

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

D&S Includes:

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

A. Mission Description and Budget Item Justification

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

Funding at the accomplishment/planned program level is reported as the total of all services as these activities support all aircraft variants. By agreement, USN and USMC funding shares are approximately equal and when combined are equal to the USAF share.

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 2019	FY 2019	FY 2019
	FY 2017	FY 2018	Base	OCO	Total
Title: Sustainment and Capability Enhancements (F-35 JSF)	75.280	26.030	4.957	-	4.957

PE 0604800F: F-35 - EMD

Air Force

UNCLASSIFIED
Page 18 of 26

-	INCLASSIFIED					
Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force				Date: Febr	uary 2018	
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/ PE 0604800F / F-35 - EMD	Name)	653832 <i>Ì J</i>	umber/Nan SF DEPLO TY ENHAN	YABILITY A	ND
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Description: Apply disciplined systems engineering, refinement of requirem suitability and maintainability of the air system such as decentralized maintenancements, security architecture updates, redesign of obsolete items and	nance capabilities, LO maintenance					
FY 2018 Plans: Complete conducting systems engineering, technical maturation, integration and deployability enhancements. Increase is to perform sustaining engineerinecessary to gain capacity, compatibility, and expansion in wiring, power, wire electronic warfare. This includes funding for suitability enhancements such a and Band 2/5 efforts.	ing, development and test activities ng conduits, etc. in support of					
FY 2019 Base Plans: No funding requested in FY19.						
FY 2018 to FY 2019 Increase/Decrease Statement: No funding requested in FY19.						
Title: Development Support (F-35 JSF)		3.556	1.000	0.000	-	0.000
Description: SDD support efforts for airframe, air vehicle systems, mission support, and autonomic logistics development activities.	systems, weapons integration,					
FY 2018 Plans: Continue SDD support efforts for airframe, air vehicle systems, mission syste support, and autonomic logistics development activities. Development Suppleard reduction between all services.						
FY 2019 Base Plans: No funding requested in FY19.						
FY 2018 to FY 2019 Increase/Decrease Statement: No funding requested in FY19.						
Title: Development Test and Evaluation		1.440	0.500	0.000	-	0.000
Description: Verification and testing for deployability and suitability enhance	ements.					
FY 2018 Plans:						

PE 0604800F: *F-35 - EMD*

Air Force

UNCLASSIFIED

R-1 Line #89

Page 19 of 26

	UNCLASSIFIED					
Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force				Date: Febr	uary 2018	
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/ PE 0604800F / F-35 - EMD	Name)	Project (No 653832 / J SUITABILI	SF DEPLO	YABILITY A	ND
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Continue to initiate government test and evaluation of capability enhance Logistics Information System and LO maintenance enhancements.	ments for Deployable Autonomic					
FY 2019 Base Plans: No funding requested in FY19.						
FY 2018 to FY 2019 Increase/Decrease Statement: No funding requested in FY19.						
Title: Autonomic Logistics Information System		45.586	33.740	0.000	-	0.000
Description: SDD execution of Autonomic Logistics Information System infrastructure used to transmit health and maintenance action information users.						
FY 2018 Plans: Complete SDD execution of Autonomic Logistics Information System (AL infrastructure used to transmit health and maintenance action information users.						
FY 2019 Base Plans: No funding requested in FY19.						
FY 2018 to FY 2019 Increase/Decrease Statement: No funding requested in FY19.						
Title: Other Program Funding (F-35 JSF)		-	0.000	0.000	-	0.000
Description: NOTE: Balancer line since the R2A/R3 represents a joint be	udget.					
FY 2018 Plans: Balancer Line						
FY 2019 Base Plans: No funding requested in FY19.						
FY 2018 to FY 2019 Increase/Decrease Statement: No funding requested in FY19.						
Accomplis	shments/Planned Programs Subtotals	125.862	61.270	4.957	-	4.957

PE 0604800F: *F-35 - EMD*

Air Force

UNCLASSIFIED

Page 20 of 26 R-1 Line #89

Exhibit R-2A, RDT&E Project Justi	fication: PB	2019 Air Fo	rce						Date: Feb	ruary 2018	
Appropriation/Budget Activity 3600 / 5					rogram Eler 04800F / F-	ment (Number 35 - EMD	/Name)	653832 <i>Ì J</i>	umber/Nai SF DEPLC TY ENHAN	YABILITY A	IND
B. Accomplishments/Planned Prog	grams (\$ in I	<u> Millions)</u>					FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
				Other S	Service Fund	ing Adjustmen	t 78.900	24.068	4.957	-	4.957
					Air Fo	orce Subtotals	46.962	37.202	0.000	-	0.000
C. Other Program Funding Summa	ıry (\$ in Milli	ons)									
			FY 2019	FY 2019	FY 2019					Cost To	
<u>Line Item</u>	FY 2017	FY 2018	<u>Base</u>	<u>000</u>	<u>Total</u>		FY 2021	FY 2022	FY 2023		Total Cost
• RDTE 05 PE 0604800F 3831: JSF SDD, BPAC 653831	386.941	255.745	69.001	-	69.001	7.796	5.598	122.000	-	Continuing	Continuing
• RDTE 05 PE 0604800N 2261: JSF SDD (CV)	489.144	103.144	60.537	-	60.537	1.637	0.454	0.467	-	Continuing	Continuing
• RDTE 05 PE 0604800N 3352: F-35C Sustainment/ Capability Enhancements (CV)	23.518	5.787	4.957	-	4.957	-	-	-	-	Continuing	Continuing
• RDTE 05 PE 0604800M 2262: JSF SDD (STOVL)	495.958	141.534	66.566	-	66.566	1.727	0.547	0.564	-	Continuing	Continuing
RDTE 05 PE 0604800M 3350: F-35B Sustainment/ Capability Enhancements (STOVL), BPAC 3350	23.435	11.400	-	-	-	-	-	-	-	Continuing	Continuing
• International 1: International SDD	0.000	27.450	-	-	-	-	-	-	-	Continuing	Continuing

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

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 also 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 \$4,229,946.

PE 0604800F: F-35 - EMD

Air Force

Remarks

UNCLASSIFIED

Page 21 of 26

Exhibit R-2A, RDT&E Project Justification: PB 2019 Air Force			Date: February 2018
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0604800F / F-35 - EMD	653832 <i>Ì J</i>	lumber/Name) ISF DEPLOYABILITY AND ITY ENHANCEMENT
		1	

D. Acquisition Strategy

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

E. Performance Metrics

Please refer to the Performance	Base Budget Overview	Book for information on h	ow Air Force resources a	re applied and how those r	resources are contributing to Ai
Force performance goals and mo	ost importantly, how they	contribute to our mission	n.		

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

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

Appropriation/Budget Activity
3600 / 5

R-1 Program Element (Number/Name)
PE 0604800F / F-35 - EMD

Date: February 2018

Project (Number/Name)
653832 / JSF DEPLOYABILITY AND

FY 2019 FY 2019 FY 2019 **Product Development (\$ in Millions)** FY 2017 FY 2018 Base oco Total Contract Target Method Performing Prior Award Award Award Award **Cost To** Total Value of **Cost Category Item** & Type **Activity & Location** Complete Years Cost Date Cost Date Cost Date Cost Date Cost Cost Contract Primary Hardware Lockheed Martin: SS/CPFF 44.233 45.572 Mar 2017 23.655 Mar 2018 4.957 Mar 2019 4.957 4.995 123.412 105.824 Development - 3002 SDD Fort Worth, TX Primary Hardware Lockheed Martin: SS/CPFF 144.378 40.768 Mar 2017 33.740 Mar 2018 0.000 218.886 209.271 Development - 3002 ALIS Fort Worth, TX Primary Hardware Lockheed Martin: Development - 14-C-0002 SS/CPFF 98.639 34.526 Mar 2017 2.375 Mar 2018 135.540 122.925 0.000 Fort Worth, TX Band 2/5 Subtotal 287.250 120.866 59.770 4.957 4.957 4.995 477.838 N/A

Support (\$ in Million	s)			FY	2017	FY:	2018	FY 2 Ba	2019 ise	FY 2	2019 CO	FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Support	Various	AFLCMC : Eglin AFB, FL	33.501	-		-		-		-		-	0.000	33.501	-
Various	Various	Various : Various, NV	12.368	2.410	Mar 2017	1.000	Mar 2018	-		-		-	0.000	15.778	-
	•	Subtotal	45.869	2.410		1.000		-		-		-	0.000	49.279	N/A

Test and Evaluation	(\$ in Milli	ons)		FY 2	2017	FY 2	2018	FY 2 Ba		FY 2		FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	Various : Various, NV	2.010	0.976	Mar 2017	0.500	Mar 2018	-		-		-	0.000	3.486	-
		Subtotal	2.010	0.976		0.500		-		-		-	0.000	3.486	N/A

PE 0604800F: *F-35 - EMD*

Air Force

UNCLASSIFIED

Page 23 of 26 R-1

SUITABILITY ENHANCEMENT

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

R-1 Program Element (Number/Name)

Project (Number/Name)

Appropriation/Budget Activity 3600 / 5

PE 0604800F / F-35 - EMD

653832 I JSF DEPLOYABILITY AND SUITABILITY ENHANCEMENT

Date: February 2018

Management Service	es (\$ in M	illions)		FY 2	2017	FY 2	018	FY 2 Ba		FY 2	2019 CO	FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Other Service Funding Adjustment	TBD	Not specified. : TBD	-	0.000		0.000		-		-		-	0.000	0.000	-
Program Management	Various	Various : Various, NV	3.316	1.610	Mar 2017	-		-		-		-	0.000	4.926	-
		Subtotal	3.316	1.610		0.000		-		-		-	0.000	4.926	N/A

	Prior Years	FY 20)17 FY 2			2019 FY 2019 CO Total	Cost To	Total Cost	Target Value of Contract
Cost Category Subtotals	338.445	125.862	61.270	4.957	-	4.957	4.995	535.529	N/A
Other Service Funding Adjustment	-	78.900	24.068	4.957	-	4.957			-
Project Cost Totals	338.445	46.962	37.202	0.000	-	0.000	4.995	535.529	-

Remarks

NOTE: Prior Years reflect \$154.435M USAF/\$68.518M USN/\$58.740M USMC/\$56.752M International/Total \$338.445M FY 2017 reflects \$46.962M USAF/\$23.518M USN/\$23.435M USMC/\$31.947M International/Total \$125.8622M FY 2018 reflects \$37.202M USAF/\$ 5.787M USN/\$11.400M USMC/\$ 6.881M International/Total \$ 61.270M FY 2019 reflects \$ 0.000M USAF/\$ 4.957M USN/\$ 0.000M USMC/\$ 0.000M International/Total \$4.957M

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

JSF EMD Includes:

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

D&S Includes:

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

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

Page 24 of 26

xhibit R-4, RDT&E Schedule Profile: PB 2019 A	ir Fo	orce	;																				Da	te: F	ebru	uary	201	8			
Appropriation/Budget Activity 3600 / 5											_		Elem F-3		•		er/N	lam	e)	65	roject (Number/Name) 38832 I JSF DEPLOYABILITY AND JITABILITY ENHANCEMENT										
		FY	201	7		F	Y 2	2018	3		FY	201	9		FY	2 0	20		F١	202	1		FY	202	2		FY	202	3		
	1	2	3	4	1	1	2	3	4	1	2	3	4	1	1 2	2 3	3 4	1 '	1 2	2 3	4	1	2	3	4	1	2	3	4		
F-35 Deployability and Suitability			,		·	,				,	,		,			· ·	,					,	,	,							
D&S: Standard Operating Unit (SOUv2)																															
D&S: Band 2/5																															
D&S: Security Architecture																															
D&S: Offboard Mission Support (OMS) Redesign																															
D&S: Distributed Mission Training/Distributed Mission Operations (DMT/DMO)																													_		

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

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Air Force			Date: February 2018
Appropriation/Budget Activity 3600 / 5	PE 0604800F <i>I F-35 - EMD</i>	653832 <i>Ì J</i>	umber/Name) SF DEPLOYABILITY AND TY ENHANCEMENT

Schedule Details

	St	art	E	nd
Events by Sub Project	Quarter	Year	Quarter	Year
F-35 Deployability and Suitability		-		
D&S: Standard Operating Unit (SOUv2)	1	2017	4	2018
D&S: Band 2/5	2	2017	3	2018
D&S: Security Architecture	3	2018	3	2019
D&S: Offboard Mission Support (OMS) Redesign	3	2018	3	2019
D&S: Distributed Mission Training/Distributed Mission Operations (DMT/DMO)	1	2017	4	2019

Note

Schedule details reflect fiscal years

PE 0604800F: *F-35 - EMD*

Air Force Page 26 of 26