Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force

**Date:** May 2017

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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	21,111.851	575.932	450.467	292.947	0.000	292.947	69.655	7.796	5.598	0.000	0.000	22,514.246
653831: Joint Strike Fighter	21,036.317	497.031	403.505	255.745	0.000	255.745	69.655	7.796	5.598	0.000	0.000	22,275.647
653832: JSF DEPLOYABILITY AND SUITABILITY ENHANCEMENT	75.534	78.901	46.962	37.202	0.000	37.202	0.000	0.000	0.000	0.000	0.000	238.599

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

BA05: This program is Budget Activity 5, System Development and Demonstration (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

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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force

**Date:** May 2017

0.000

155.585

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

155.585

, ,					
B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	586.953	450.467	137.362	0.000	137.362
Current President's Budget	575.932	450.467	292.947	0.000	292.947
Total Adjustments	-11.021	0.000	155.585	0.000	155.585
<ul> <li>Congressional General Reductions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Directed Reductions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Rescissions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Adds</li> </ul>	0.000	0.000			
<ul> <li>Congressional Directed Transfers</li> </ul>	0.000	0.000			
Reprogrammings	9.999	0.000			
SBIR/STTR Transfer	-21.020	0.000			

0.000

### **Change Summary Explanation**

Other Adjustments

FY18 Increase reflects an extension to the SDD program along with internal F-35 realignments to fund the SDD and D&S efforts to completion.

0.000

PE 0604800F: F-35 - EMD

Exhibit R-2A, RDT&E Project Justification: FY 2018 Air Force										<b>Date</b> : May 2017			
Appropriation/Budget Activity 3600 / 5						am Elemen 00F / F-35 -	t (Number/ EMD	Name)	Project (Number/Name) 653831 / Joint Strike Fighter				
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost	
653831: Joint Strike Fighter	21,036.317	497.031	403.505	255.745	0.000	255.745	69.655	7.796	5.598	0.000	0.000	22,275.647	
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-			

#### Note

Total cost including USN, USMC, International partner contributions and USAF funding are: FY2016 \$1,462.496M, FY2017 \$1,436.879M, and FY2018 \$527.873M. 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

## 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.

PE 0604800F: F-35 - EMD

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Air Force			Date: May 2017
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	, ,	umber/Name)
3600 / 5	PE 0604800F <i>I F-35 - EMD</i>	653831 <i>I J</i>	oint Strike Fighter

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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Title: System Development and Demonstration (SDD) (F-35 JSF)	850.841	925.860	331.783	-	331.783
<b>Description:</b> 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 2016 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 including modifications to Operational Testing. Activity aligned to Integrated Master Schedule (IMS) in accordance with variant Initial Operational Capability (IOC).					
FY 2017 Plans: Continue 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 2018 Base 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.					
Title: F135 Propulsion System (F-35 JSF)	123.198	120.000	0.000	-	0.000
<b>Description:</b> SDD execution of the F135 Propulsion System with Pratt & Whitney that includes engine testing, autonomic logistics, integration and performing technology maturation efforts.					
FY 2016 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					

PE 0604800F: F-35 - EMD

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Air Force				Date: May	2017		
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/ PE 0604800F / F-35 - EMD	Name)	Project (Number/Name) 653831 / Joint Strike Fighter				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	
integrated test efforts including modifications to Operational Testing. Activity a Schedule (IMS) in accordance with variant Initial Operational Capability (IOC)							
FY 2017 Plans: Complete SDD execution of the F135 Propulsion System with Pratt & Whitney autonomic logistics, integration and performing technology maturation efforts.							
FY 2018 Base Plans: N/A							
Title: Systems Engineering (SE) (F-35 JSF)		24.844	28.181	0.911	-	0.911	
<b>Description:</b> SDD SE including systems operations requirements analysis, p integration, and interoperability support.	rogram integration, requirements						
<b>FY 2016 Accomplishments:</b> Continued SDD SE, including systems operations requirements analysis, progintegration, and interoperability support.	gram integration, requirements						
<b>FY 2017 Plans:</b> Continue SDD SE, including systems operations requirements analysis, progrintegration, and interoperability support.	ram integration, requirements						
FY 2018 Base Plans: Complete SDD SE, including systems operations requirements analysis, progintegration, and interoperability support.	gram integration, requirements						
<i>Title:</i> Development Test and Evaluation (DT&E) (F-35 JSF)		291.530	281.672	143.809	-	143.809	
<b>Description:</b> Government DT&E/Operational Testing (OT) in support of first f DT&E includes preparation for flight testing and weapons integration testing.	light of test aircraft. Elements of						
FY 2016 Accomplishments:  Continued government DT&E/OT in support of test aircraft. Continue flight so and CV variants to expand air vehicle envelope and support mission systems flight testing, weapons integration testing, and component capabilities testing.	testing. Elements of DT&E include						
FY 2017 Plans:							

PE 0604800F: *F-35 - EMD* 

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Air Force				Date: May	2017		
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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	
Continue government DT&E/OT in support of test aircraft. Continue flight scienand CV variants to expand air vehicle envelope and support mission systems flight testing, weapons integration testing, and component capabilities testing.							
FY 2018 Base Plans: Complete government DT&E/OT in support of test aircraft. Continue flight scie and CV variants to expand air vehicle envelope and support mission systems flight testing, weapons integration testing, and component capabilities testing.							
Title: Development Support (F-35 JSF)		171.482	80.945	10.676	-	10.676	
<b>Description:</b> SDD Support efforts for airframe, air vehicle systems, mission symission support, and autonomic logistics development activities.	ystems, weapons integration,						
FY 2016 Accomplishments: Continued SDD support efforts for airframe, air vehicle systems, mission syste support, and autonomic logistics development activities.	ems, weapons integration, mission						
FY 2017 Plans: Continue SDD support efforts for airframe, air vehicle systems, mission system support, and autonomic logistics development activities.	ms, weapons integration, mission						
FY 2018 Base Plans: Complete SDD support efforts for airframe, air vehicle systems, mission syste support, and autonomic logistics development activities.	ms, weapons integration, mission						
Title: Autonomic Logistics Information System (ALIS)		0.600	0.221	40.694	-	40.694	
<b>Description:</b> SDD execution of Autonomic Logistics Information System (ALIS infrastructure used to transmit health and maintenance action information for tusers.							
FY 2016 Accomplishments: Continued SDD SE, including systems operations requirements analysis, progintegration, and interoperability support.	gram integration, requirements						
FY 2017 Plans:							

PE 0604800F: *F-35 - EMD* 

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Exhibit R-2A, RDT&E Project Justif	fication: FY	2018 Air Fc	rce						Date: May	/ 2017			
Appropriation/Budget Activity 3600 / 5					rogram Ele 604800F / <i>F-</i>	ment (Numbe 35 - EMD	er/Name)		Project (Number/Name) 53831 / Joint Strike Fighter				
B. Accomplishments/Planned Prog	ırams (\$ in	Millions)					FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total		
Complete SDD execution of ALIS to a maintenance action information for the	•			used to tra	nsmit health	and							
FY 2018 Base Plans: Continue SDD execution of ALIS to d maintenance action information for th				used to trar	nsmit health	and							
			Accomplis	hments/Pla	nned Progr	ams Subtota	<b>Is</b> 1,462.495	1,436.879	527.873	-	527.87		
				Other S	Service Fund	ding Adjustme	nt 965.464	1,033.374	272.128	-	272.128		
					Air F	orce Subtota	<b>Is</b> 497.031	403.505	255.745	j -	255.74		
C. Other Program Funding Summar  Line Item  RDTE: BA05: PE 0604800F 3832:  JSF Deployability and Suitability  Enhancements, BPAC 653832  RDTE: BA07: PE 0207142F	FY 2016 78.901 47.023	FY 2017 46.962	FY 2018 Base 37.202	FY 2018 OCO 0.000	FY 2018 Total 37.202	FY 2019 0.000 463.321	FY 2020 0.000	FY 2021 0.000	0.000	Cost To Complete 0.00	238.599		
5346: JSF Follow-on Development (FoD), BPAC 675346 • RDTE: BA07: PE 0207142F 6011: Dual Capable Aircraft (DCA), BPAC 676011	4.967	25.743	35.122	0.000	35.122	47.016	49.026	67.040		Continuing			
• APAF: BA01: Line Item # ATA000 AP: JSF CTOL Advance Procurement, PE 0207142F, BP10 AP	460.260	404.500	780.300	0.000	780.300		1,003.600	965.300		13,451.541			
<ul> <li>APAF: BA01: Line Item # ATA000: JSF CTOL, PE 0207142F, BP10         <ul> <li>APAF: BA06: Line Item # F03500 BP16: JSF Initial Spares, PE 0207142F, BP16</li> </ul> </li> </ul>	5,259.812	4,997.394 362.792	320.831	0.000	320.831	4,253.696 319.151	4,209.813 4 416.722	4,862.684 399.361		3,893.112			

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Exhibit R-2A, RDT&E Project Justi	hibit R-2A, RDT&E Project Justification: FY 2018 Air Force									<b>Date:</b> May 2017					
Appropriation/Budget Activity 3600 / 5					ogram Ele 04800F / <i>F-</i>	ment (Numl 35 - EMD	per/Name)	Project (Number/Name) 653831 / Joint Strike Fighter							
C. Other Program Funding Summa	ıry (\$ in Milli	ons)		1				<u>'</u>							
			FY 2018	FY 2018	FY 2018					Cost To					
<u>Line Item</u>	FY 2016	FY 2017	<b>Base</b>	<u>000</u>	<u>Total</u>	FY 2019	FY 2020	FY 2021		<u>Complete</u>					
<ul> <li>APAF: BA05: Line Item # F03500 BP11: JSF</li> </ul>	70.167	175.811	68.270	0.000	68.270	230.448	279.814	259.978	301.899	Continuing	Continuing				
Modifications, PE 0207142F, BP11															
<ul> <li>USAF OM: Operations and Maintenance</li> </ul>	312.557	425.978	452.906	0.000	452.906	555.687	873.270	998.979	958.708	Continuing	Continuing				
• OPAF: BA01: Line Item # 821800:	3.858	2.333	3.326	0.000	3.326	3.310	2.993	2.463	2.507	Continuing	Continuing				
Joint Strike Fighter, PE 0207142F										<b>. .</b>	<b>. .</b>				
• MILCON: BA01: PE	132.850	305.700	80.000	0.000	80.000	27.500	0.000	0.000	0.000	1,312.100	2.511.350				
0207142F: USAF JSF Military										,-	,-				
Construction Operations															
• MILCON: BA01: PE	65.400	20.000	21.000	0.000	21.000	34.000	15.900	0.000	0.000	0.00	156.300				
0207597F: <i>USAF JSF</i>															
Military Construction Training															
• MILCON: BA01: PE	0.000	15.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	15.100				
0502635F: USAF JSF Military															
Construction Air National Guard															
• RDTEN: BA05: PE 0604800N	453.036	504.296	103.144	0.000	103.144	61.179	1.637	0.454	0.467	0.00	48,627.350				
2261: JSF SDD (CV)											-,-				
• RDTEN: BA05: PE 0604800N	35.666	24.420	5.787	0.000	5.787	4.995	0.000	0.000	0.000	0.00	108.345				
3352: F-35C Sustainment/															
Capability Enhancements (CV)															
• RDTEN: BA05: PE 0604810N	20.544	63.387	139.942	0.000	139.942	224.712	228.707	188.678	120.192	Continuing	Continuing				
2936: F-35C Follow-on										J	· ·				
Development (CV), BPAC 2936															
APN: BA01: Line Item #	1,033.142	890.650	582.324	0.000	582.324	1,105.952	1,805.276	2,582.852	2,730.285	27,953.966	50,644.344				
0147: JSF (CV), PE 0204146N	·					ŕ	•	·	•	·	•				
• APN: BA01: Line Item # 0147	48.630	80.908	263.112	0.000	263.112	144.282	252.453	262.416	267.646	2,417.943	5,140.935				
AP: JSF (CV) AP, PE 0204146N										•	,				
APN: BA06: Line Item #	59.914	26.076	84.591	0.000	84.591	44.971	52.858	303.608	309.680	Continuing	Continuing				
0605 USN: Initial Spares										J					
(CV), PE 0204146N															
• APN: BA05: Line Item # 0593:	48.527	26.004	31.689	0.000	31.689	22.344	14.155	13.404	13.672	Continuing	Continuing				
Modifications (CV), PE 0204146N										3	9				

PE 0604800F: *F-35 - EMD* 

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Exhibit R-2A, RDT&E Project Justif	fication: FY	2018 Air Fo	rce						Date: Ma	y 2017		
Appropriation/Budget Activity 3600 / 5					rogram Ele 604800F / F-		per/Name)	Project (Number/Name) 653831 / Joint Strike Fighter				
C. Other Program Funding Summa	ry (\$ in Mill	ions)		'				<u>'</u>				
			FY 2018	FY 2018	FY 2018					Cost To		
<u>Line Item</u>	FY 2016	FY 2017	Base	<u>oco</u>	<u>Total</u>	FY 2019	FY 2020	FY 2021		<b>Complete</b>		
<ul> <li>OPN BA03:: ALIS</li> </ul>	1.924	0.329	2.024	0.000	2.024	1.890	1.933	1.972	0.986	0.00	15,035.000	
Ship ALTS Installs												
<ul> <li>OPN BA03: Spares for</li> </ul>	2.946	0.881	2.297	0.000	2.297	2.321	0.139	1.977	0.000	Continuing	Continuing	
Aviation Support Equipment												
<ul> <li>RDTEN: BA05: PE 0604800M</li> </ul>	495.428	507.078	141.534	0.000	141.534	55.952	1.727	0.547	0.564	0.000	3,874.211	
2262: JSF SDD (STOVL)												
• RDTEN: BA05: PE 0604800M	30.819	24.348	11.400	0.000	11.400	0.000	0.000	0.000	0.000	0.00	99.115	
3350: F-35B Sustainment/												
Capability Enhancements												
(STOVL), BPAC 3350												
• RDTEN: BA05: PE 0604810M	20.157	74.227	144.958	0.000	144.958	226.310	230.383	190.442	123.531	Continuing	Continuing	
2935: F-35B Follow-on												
Development (STOVL), BPAC 2935												
• APN: BA01: Line Item # 0152C:	203.060	233.648	413.450	0.000	413.450	228.492	231.802	220.822	222.245	1,959.119	4,802.154	
JSF Advance Procurement												
(STOVL), PE 0204146M												
• APN: BA01: Line Item # 0152:	2,147.714	2,040.681	2,398.139	0.000	2,398.139	2,338.179	2,404.257	2,585.039	2,600.750	20,548.402	42,209.667	
JSF (STOVL), PE 0204146M	•	•	•		,	,	,	·	•	•	•	
APN: BA06: Line Item #	111.569	123.252	105.671	0.000	105.671	92.198	160.150	140.989	143.809	Continuing	Continuing	
0605 USMC: Initial Spares										Ü		
(STOVL), PE 0204146M												
• APN: BA05: Line Item	204.464	34.928	34.963	0.000	34.963	70.305	67.039	79.174	80.761	Continuing	Continuino	
# 0592: Modifications										<b>.</b>		
(STOVL), PE 0204146M												
OPN/4268: Logistics	48.773	39.099	34.032	29.245	63.277	32.742	46.073	47.389	62.299	Continuing	Continuing	
Information System (ALIS)						-				<b>.</b>		
• DoN MILCON: USN/	94.420	230.900	64.666	0.000	64.666	121.990	119.800	0.000	0.000	642.400	1,406.074	
USMC MILCON											.,	
• International 1: International SDD	17.000	22.000	27.450	0.000	27.450	0.000	0.000	0.000	0.000	0.00	5,013.463	
International 2:	189.922	185.641	124.114	0.000	124.114	151.776	150.588	149.848		Continuing	,	
International Production				3.000					2	· · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · ·	
International 3: International FoD	83.595	84.602	158.273	0.000	158.273	159.649	162.023	167.383	160 111	Continuing	Continuing	

PE 0604800F: *F-35 - EMD* 

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Exhibit R-2A, RDT&E Project Just	ification: FY	2018 Air Foi	rce						Date: Ma	y 2017	
Appropriation/Budget Activity 3600 / 5					rogram Eler 604800F / F-	•	er/Name)		Number/Na Joint Strike	,	
C. Other Program Funding Summ	ary (\$ in Milli	ons)	FY 2018	FY 2018	FY 2018					Cost To	
<u>Line Item</u> • International 4: <i>International</i>	<b>FY 2016</b> 38.438	<b>FY 2017</b> 32.374	<b>Base</b> 15.566	OCO 0.000	<b>Total</b> 15.566	<b>FY 2019</b> 0.000	<b>FY 2020</b> 0.000	<b>FY 2021</b> 0.000	<b>FY 2022</b> 0.000		<u>Total Cost</u> 482.417
Unique (SDD/PSFD)											

#### 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, 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.

### **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

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Air Ford	ce	<b>Date:</b> May 2017
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 Force performance goals and most importantly, how they cont		how those resources are contributing to Air

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

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Air Force

Date: May 2017

Appropriation/Budget Activity

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

PE 0604800F / F-35 - EMD

Project (Number/Name)
653831 / Joint Strike Fighter

Product Developmen	Product Development (\$ in Millions)			FY 2	2016	FY 2	2017		2018 ise	FY 2		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Lockheed Martin - SDD	SS/CPIF	Lockheed Martin : Ft. Worth, TX	30,424.313	795.482	Dec 2015	774.642	Dec 2016	274.720	Dec 2017	0.000		274.720	170.619	32,439.776	632,439.776
Lockheed Martin - SDD Fee	SS/CPIF	Lockheed Martin : Ft. Worth, TX	1,709.429	17.830	Dec 2015	11.430	Dec 2016	35.000	Dec 2017	0.000		35.000	2.500	1,776.189	1,776.189
Lockheed Martin -0031	SS/CPFF	Lochkheed Martin : Ft. Worth, TX	0.337	0.000		0.506	Dec 2016	0.169	Dec 2017	0.000		0.169	0.000	1.012	1.012
Lockheed Martin - BOA 0020	SS/CPFF	Lockheed Martin : Ft. Worth, TX	45.120	36.718	Dec 2015	139.281	Dec 2016	21.893	Dec 2017	0.000		21.893	0.000	243.012	243.012
Lockheed Martin - BOA 0016	SS/CPFF	Lockheed Martin : Ft. Worth, TX	15.045	0.811	Dec 2015	0.000		0.000		0.000		0.000	0.000	15.856	15.856
Pratt & Whitney - SDD	SS/CPIF	Pratt &Whitney : Hartford, CT	7,180.563	115.765	Dec 2015	105.448	Dec 2016	0.000		0.000		0.000	0.000	7,401.776	7,401.776
Pratt & Whitney - Fee	SS/CPIF	Pratt &Whitney : Hartford, CT	670.213	7.433	Dec 2015	14.552	Dec 2016	0.000		0.000		0.000	0.000	692.198	692.198
Systems Engineering	Various	Various : Various	414.111	21.260	Nov 2015	23.577	Nov 2016	0.911	Dec 2017	0.000		0.911	0.000	459.859	459.859
Prime LM 02-C-3002 ALIS	SS/CPAF	LM : Ft Worth, TX	461.717	0.600	Dec 2015	0.221	Dec 2016	40.694	Dec 2017	0.000		40.694	27.400	530.632	530.632
Prior Year not funded in FYDP	Various	Various : Various	2,893.266	0.000		0.000		0.000		0.000		0.000	0.000	2,893.266	2,893.266
		Subtotal	43,814.114	995.899		1,069.657		373.387		0.000		373.387	200.519	46,453.576	646,453.576

#### Remarks

Air Force

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%.

Support (\$ in Millions	Support (\$ in Millions)			FY 2	2016	FY 2	2017	FY 2 Ba		FY 2		FY 2018 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	133.721	5.205	Nov 2015	1.834	Nov 2016	0.830	Nov 2017	0.000		0.830	0.000	141.590	141.590
AFLCMC/AFRL	Various	AFLCMC/AFRL : Various	65.104	10.725	Nov 2015	3.133	Nov 2016	0.000		0.000		0.000	0.000	78.962	78.962
AFTOC/Fuel	Various	Various : Various	191.102	8.845	Nov 2015	3.771	Nov 2016	0.000		0.000		0.000	0.000	203.718	203.718

PE 0604800F: F-35 - EMD

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Air Force **Date:** May 2017

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	ıs)			FY 2	2016	FY 2	2017		2018 ise	FY 2		FY 2018 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
Miscellaneous	Various	Various : Various	110.915	12.601	Nov 2015	12.356	Nov 2016	2.927	Nov 2017	0.000		2.927	0.764	139.563	139.563
NAWC China Lake	Various	NAWC WD : China Lake, CA	152.642	10.533	Nov 2015	4.312	Nov 2016	0.000		0.000		0.000	0.000	167.487	167.487
NAWC Patuxent River	Various	NAWC AD : Patuxent River, MD	406.999	98.485	Nov 2015	41.726	Nov 2016	6.913	Nov 2017	0.000		6.913	0.000	554.123	554.123
Prior Year no longer funded in FYDP	Various	Various : Various	77.641	0.000		0.000		0.000		0.000		0.000	0.000	77.641	77.641
		Subtotal	1,138.124	146.394		67.132		10.670		0.000		10.670	0.764	1,363.084	1,363.084

Test and Evaluation	est and Evaluation (\$ in Millions)			FY 2	2016	FY 2	2017		2018 ise	FY 2		FY 2018 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 Contrac
NAWC China Lake	Various	NAWC WD : China Lake, CA	38.905	1.640	Nov 2015	2.712	Nov 2016	0.000		0.000		0.000	0.000	43.257	-
Development Test and Evaluation	Various	NAWC AD : Patuxent River, MD	668.838	83.330	Nov 2015	54.944	Nov 2016	4.400	Oct 2017	0.000		4.400	0.000	811.512	-
Edwards AFB	Various	Edwards AFB : Edwards AFB, CA	618.609	65.334	Nov 2015	54.976	Nov 2016	4.400	Nov 2017	0.000		4.400	0.000	743.319	-
Other (including Classified PIDs)	Various	Various : Various	204.506	36.766	Dec 2015	30.602	Nov 2016	2.400	Nov 2017	0.000		2.400	0.000	274.274	-
WEPS/Eglin	Various	WEPS : Eglin AFB, FL	27.829	0.000		0.000		0.000		0.000		0.000	0.000	27.829	-
OT - AFOTEC/AFFTC	Various	OT AFOTEC/ AFFTC : Various	179.619	24.926	Nov 2015	35.436	Nov 2016	41.976	Nov 2017	0.000		41.976	2.150	284.107	-
OT - JITC/OPTEV	Various	OT JITC/OPTEV : Various	36.435	24.808	Nov 2015	42.956	Nov 2016	71.886	Nov 2017	0.000		71.886	2.143	178.228	-
OT CHLK	Various	NAWC WD : China Lake, CA	0.000	3.999	Nov 2015	9.912	Nov 2016	15.392		0.000		15.392	0.000	29.303	-
OT - Various	Various	Various : Various	0.105	7.718	Nov 2015	2.775	Nov 2016	3.274	Nov 2017	0.000		3.274	0.000	13.872	-
		Subtotal	1,774.846	248.521		234.313		143.728		0.000		143.728	4.293	2,405.701	-

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Air Force

**Date:** May 2017

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

Project (Number/Name)

3600 / 5

PE 0604800F / F-35 - EMD

653831 Ì Joint Strike Fighter

Management Servic	es (\$ in M	illions)		FY 2	2016	FY 2	2017		2018 ise	FY 2		FY 2018 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
Security - System High BOS	C/FP	System High : Arlington, VA	0.000	7.845	Nov 2015	8.037	Nov 2016	0.000		0.000		0.000	0.000	15.882	-
AFLCMC Civilian Pay	Various	AFLCMC : Wright Patterson AFB, OH	94.833	25.478	Oct 2015	10.270	Oct 2016	0.000		0.000		0.000	0.000	130.581	130.581
OPS-Jacobs BOSS	Various	TBD : Arlington, VA	26.070	6.702	Dec 2015	9.013	Dec 2016	0.000		0.000		0.000	0.000	41.785	75.126
OPS- Allutiiq/E3	C/CPAF	TBD : Arlington, VA	1.934	0.279	Dec 2015	0.192	Dec 2016	0.000		0.000		0.000	0.000	2.405	2.405
OPS - Cost/FM/EV	Various	TBD : Arlington, VA	2.000	0.000		3.845	Dec 2016	0.000		0.000		0.000	0.000	5.845	5.845
Andrews AFB	Various	TBD : Camp Springs, MD	0.242	0.116	Dec 2015	0.135	Dec 2016	0.000		0.000		0.000	0.000	0.493	0.493
Program Management Support - BOS	C/CPFF	Jacobs : Arlington, VA	26.012	24.428	Dec 2015	24.686	Dec 2016	0.000		0.000		0.000	0.000	75.126	41.785
CIO ODCs	C/CPAF	Various : Various	9.058	3.963	Dec 2015	7.256	Dec 2016	0.000		0.000		0.000	0.000	20.277	20.277
Travel	C/CPAF	Various : Various	21.959	2.870	Oct 2015	2.343	Oct 2016	0.088	Dec 2017	0.000		0.088	0.000	27.260	27.261
Prior Year not funded in FYDP	Various	Various : Various	593.944	0.000		0.000		0.000		0.000		0.000	0.000	593.944	593.944
		Subtotal	776.052	71.681		65.777		0.088		0.000		0.088	0.000	913.598	-

#### Remarks

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

	Prior Years	FY 2	2016	FY 2	2017	FY 2 Ba	 FY 2	 FY 2018 Total	Cost To	Total Cost	Target Value of Contract
Cost Category Subtotals	47,503.136	1,462.495		1,436.879		527.873	0.000	527.873	205.576	51,135.959	-
Other Service Funding Adjustment	26,466.819	965.464		1,033.374		272.128	-	272.128	122.527	28,860.312	! -
Project Cost Totals	21,036.317	497.031		403.505		255.745	0.000	255.745	83.049	22,275.647	-

#### 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 \$21,025.899M USAF/\$18,858.842M USN/\$2,671.382M USMC /\$4,947.013M International/Total \$47,503.136

PE 0604800F: F-35 - EMD

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Air Force

Appropriation/Budget Activity

3600 / 5

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

PE 0604800F / F-35 - EMD

Date: May 2017

R-1 Program Element (Number/Name)
653831 / Joint Strike Fighter

Target FY 2018 FY 2018 FY 2018 Cost To Prior Total Value of Years **FY 2016** FY 2017 Base oco Total Complete Cost Contract

FY 2016 reflects \$497.031M USAF/\$453.037M USN/\$495.428M USMC/\$17.000M International/Total \$1,462.496M

FY 2017 reflects \$403.505M USAF/\$504.296M USN/\$507.078M USMC/\$22.000M International/Total \$1,436.879M

FY 2018 reflects \$255.745 USAF/\$103.144M USN/\$141.534 USMC/\$27.450 International/Total \$527.873M

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

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xhibit R-4, RDT&E Schedule Profile: FY 2018 A	ir Force					Date: Ma	ay 2017
ppropriation/Budget Activity 600 / 5			<b>R-1 Program Elem</b> PE 0604800F / <i>F-</i> 3			ect (Number/Na 331 / Joint Strike	
	FY 2016 1 2 3 4	FY 2017	FY 2018	FY 2019	FY 2020 1 2 3	FY 2021 4 1 2 3	FY 2022 4 1 2 3 4
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) FY16							
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY17		ı					
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY18							
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY19					I		
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 8 Full Funding / Production / Delivery							
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 9 Full Funding / Production / Delivery							

PE 0604800F: *F-35 - EMD* 

hibit R-4, RDT&E Schedule Profile: FY 2018 A	ir Ford	се					1										-							ay 2		•		
propriation/Budget Activity 00 / 5										<b>m Ele</b> OF <i>I F</i>				nbe	r/Na	ıme	)		<b>Proje</b> 538							r		
	_	Y 20				<b>20</b> ′	_		_	2018			_	201	_		FY					Y 2				_	2022	
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 10 Full Funding / Production / Delivery	1	2	3   4		1   2	2   3	3   4	1	2	3	4	1	2	3	4	1	2	;	3   4	4	1	2	3	4	1	2	3	4
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																												
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 13 Full Funding / Production / Delivery												ļ																
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: FY 2018 Air Force		<b>Date:</b> May 2017
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
3600 / 5	PE 0604800F / F-35 - EMD	653831 I Joint Strike Fighter

# Schedule Details

	Sta	art	En	ıd
Events	Quarter	Year	Quarter	Year
Acquisition Milestones: F-35C Initial Operational Capability	4	2018	4	2018
Test & Evaluation: Test and Evaluation: Block 3F DT&E/Cert	1	2016	3	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) FY16	4	2016	4	2016
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY17	4	2017	4	2017
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY18	4	2018	4	2018
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY19	4	2019	4	2019
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY20	4	2020	4	2020
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY21	4	2021	4	2021
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 8 Full Funding / Production / Delivery	1	2016	1	2017
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 9 Full Funding / Production / Delivery	4	2016	1	2018
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 10 Full Funding / Production / Delivery	4	2016	1	2019
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 11 Full Funding / Production / Delivery	2	2017	1	2020
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 12 Full Funding / Production / Delivery	2	2018	1	2021

PE 0604800F: *F-35 - EMD* 

Exhibit R-4A, RDT&E Schedule Details: FY 2018 Air Force			Date: May 2017
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
3600 / 5	PE 0604800F / F-35 - EMD	653831 <i>I J</i>	oint Strike Fighter

	St	art	E	nd
Events	Quarter	Year	Quarter	Year
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 13 Full Funding / Production / Delivery	2	2019	4	2022
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 14 Full Funding / Production / Delivery	2	2020	4	2022
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 15 Full Funding / Production / Delivery	2	2021	4	2022

### Note

Schedule details reflect fiscal years

PE 0604800F: *F-35 - EMD* 

Exhibit R-2A, RDT&E Project Ju	stification	FY 2018 A	ir Force							Date: May	2017	
Appropriation/Budget Activity 3600 / 5					<b>R-1 Progra</b> PE 060480	<b>am Elemen</b> 00F <i>I F-35 -</i>	•	Name)			YÁBILITY AI	ND
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
653832: JSF DEPLOYABILITY AND SUITABILITY ENHANCEMENT	75.534	78.901	46.962	37.202	0.000	37.202	0.000	0.000	0.000	0.000	0.000	238.599
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 \$108.761M, and FY2018 \$61.770M

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 2018	FY 2018	FY 2018
	FY 2016	FY 2017	Base	OCO	Total
Title: Sustainment and Capability Enhancements (F-35 JSF)	118.070	64.044	26.030	-	26.030

PE 0604800F: F-35 - EMD

Air Force

Exhibit R-2A, RDT&E Project Justification: FY 2018 Air Force				Date: May	2017	
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/I PE 0604800F / F-35 - EMD	Name)	653832 <i>Î J</i>	umber/Nam SF DEPLOY TY ENHANG	YÂBILITY A	ND
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
<b>Description:</b> Apply disciplined systems engineering, refinement of requirement suitability and maintainability of the air system such as decentralized maintena enhancements, security architecture updates, redesign of obsolete items and it	nce capabilities, LO maintenance					
FY 2016 Accomplishments: Continued to conduct systems engineering, technical maturation, integration are and deployability enhancements. Increase is to perform sustaining engineering necessary to gain capacity, compatibility, and expansion in wiring, power, wing electronic warfare. This includes funding for suitability enhancements such as 2 and Band 2/5 efforts.	, development and test activities conduits, etc. in support of					
FY 2017 Plans: Continue to conduct systems engineering, technical maturation, integration and deployability enhancements. Increase is to perform sustaining engineering, devinecessary to gain capacity, compatibility, and expansion in wiring, power, wing electronic warfare. This includes funding for suitability enhancements such as and Band 2/5 efforts.	velopment and test activities conduits, etc. in support of					
FY 2018 Base Plans: Complete conducting systems engineering, technical maturation, integration are and deployability enhancements. Increase is to perform sustaining engineering necessary to gain capacity, compatibility, and expansion in wiring, power, wing electronic warfare. This includes funding for suitability enhancements such as and Band 2/5 efforts.	, development and test activities conduits, etc. in support of					
Title: Development Support (F-35 JSF)		16.592	4.040	1.000	-	1.000
<b>Description:</b> SDD support efforts for airframe, air vehicle systems, mission systems support, and autonomic logistics development activities.	stems, weapons integration,					
FY 2016 Accomplishments:  Continued to conduct systems engineering, technical maturation, integration are and deployability enhancements. Increase is to perform sustaining engineering						

PE 0604800F: *F-35 - EMD* 

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Air Force				Date: May	2017	
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number PE 0604800F / F-35 - EMD	/Name)		umber/Nan SF DEPLOY TY ENHAN	YABILITY A	ND
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
necessary to gain capacity, compatibility, and expansion in wiring, $\mbox{\rlap{p}}$ electronic warfare.	power, wing conduits, etc. in support of					
FY 2017 Plans: Complete SDD support efforts for airframe, air vehicle systems, mis support, and autonomic logistics development activities. Development board reduction between both services.						
FY 2018 Base Plans: Continue SDD support efforts for airframe, air vehicle systems, mis support, and autonomic logistics development activities. Development reduction between all services.						
Title: Development Test and Evaluation		1.609	0.976	0.500	-	0.500
<b>Description:</b> Verification and testing for deployability and suitability	enhancements.					
FY 2016 Accomplishments: Continued to initiate government test and evaluation of capability en Logistics Information System, and LO maintenance enhancements.						
FY 2017 Plans: Complete government test and evaluation of capability enhancement Information System, and LO maintenance enhancements.	nts for Deployable Autonomic Logistics					
FY 2018 Base Plans: Continue to initiate government test and evaluation of capability enl Logistics Information System and LO maintenance enhancements.	nancements for Deployable Autonomic					
Title: Autonomic Logistics Information System		48.107	39.701	33.740	-	33.740
<b>Description:</b> SDD execution of Autonomic Logistics Information Sy infrastructure used to transmit health and maintenance action informusers.						
FY 2016 Accomplishments:						

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Exhibit R-2A, RDT&E Project Just	ification: FY	2018 Air Fo	rce						Date: May	2017	
Appropriation/Budget Activity 3600 / 5					rogram Ele 604800F / <i>F-</i>	ment (Numbe 35 - EMD	er/Name)	653832 <i>Î</i> J	lumber/Nai ISF DEPLO ITY ENHAN	YABILITY A	AND
B. Accomplishments/Planned Pro	grams (\$ in	Millions)					FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Executed Autonomic Logistics Informations transmit health and maintenance ac						ıcture used to					
FY 2017 Plans: SDD execution of Autonomic Logisti transmit health and maintenance ac						tructure used	to				
FY 2018 Base Plans: Complete SDD execution of Autonorinfrastructure used to transmit health users.											
			Accomplis	hments/Pla	nned Progr	ams Subtota	ls 184.378	108.761	61.270	-	61.27
				Other S	Service Fund	ding Adjustme	nt 105.477	61.799	24.068	-	24.06
					Air F	orce Subtota	<b>Is</b> 78.901	46.962	37.202	-	37.20
C. Other Program Funding Summa	ary (\$ in Mill	ions)	FY 2018	FY 2018	FY 2018					Cost To	
Line Item	FY 2016	FY 2017	Base	OCO	Total	FY 2019	FY 2020	FY 2021	FY 2022	Complete	Total Cos
• RDTE: BA05: PE 0604800F 3831: <i>JSF SDD, BPAC 653831</i>	497.031	403.505	255.745	0.000	255.745	69.655	7.796	5.598	122.000	0.00	22,265.22
• RDTE: BA07: PE 0207142F 5346: JSF Follow-on Development (FoD), BPAC 675346	47.023	127.302	299.408	0.000	299.408	463.621	474.971	396.488	263.548	Continuing	Continuin
• RDTE: BA07: PE 0207142F 6011: Dual Capable Aircraft (DCA), BPAC 676011	4.967	25.743	35.122	0.000	35.122	47.016	49.026	67.040	62.599	Continuing	Continuin
APAF: BA01: Line Item # ATA000 AP: JSF CTOL     Advance Procurement, PE 0207142F, BP10 AP	460.260	404.500	780.300	0.000	780.300	405.200	1,003.600	965.300	414.700	13,451.547	20,181.88
APAF: BA01: Line Item # ATA000: JSF CTOL, PE 0207142F, BP10	5,259.812	4,997.394	4,544.684	0.000	4,544.684	4,253.696	4,209.813 4	,862.684	4,796.042 1	44,128.756	198,657.19

PE 0604800F: *F-35 - EMD* 

Exhibit R-2A, RDT&E Project Just	ification: FY	2018 Air Foi	ce						Date: Ma	y 2017	
Appropriation/Budget Activity 3600 / 5					rogram Ele 04800F / <i>F-</i>	ment (Numl 35 - EMD	oer/Name)	653832 <i>l</i>	( <b>Number/Na</b> JSF DEPLO LITY ENHA	OYÁBILITY A	AND
C. Other Program Funding Summa	ary (\$ in Milli	ons)									
			FY 2018	FY 2018	FY 2018					Cost To	
<u>Line Item</u>	FY 2016	FY 2017	<u>Base</u>	<u>000</u>	<u>Total</u>	FY 2019	FY 2020	FY 2021		<u>Complete</u>	
<ul> <li>APAF: BA06: Line Item # F03500 BP16: JSF Initial</li> </ul>	229.582	362.792	320.831	0.000	320.831	319.151	416.722	399.361	394.654	3,893.112	7,567.519
Spares, PE 0207142F, BP16											
APAF: BA05: Line Item	70.167	175.811	68.270	0.000	68.270	230.448	279.814	259.978	301.899	Continuing	Continuing
# F03500 BP11: <i>JSF</i>											
Modifications, PE 0207142F, BP11											
<ul> <li>USAF OM: Operations</li> </ul>	312.557	425.978	452.906	0.000	452.906	555.687	873.270	998.979	958.708	Continuing	Continuing
and Maintenance										J	
• OPAF: BA01: Line Item # 821800:	3.858	2.333	3.326	0.000	3.326	3.310	2.993	2.463	2.507	Continuing	Continuing
Joint Strike Fighter, PE 0207142F										J	<u> </u>
• MILCON: BA01: PE	132.850	305.700	80.000	0.000	80.000	27.500	0.000	0.000	0.000	1,312.100	2,511.350
0207142F: USAF JSF Military										,	•
Construction Operations											
• MILCON: BA01: PE	65.400	20.000	21.000	0.000	21.000	34.000	15.900	0.000	0.000	0.00	156.300
0207597F: <i>USAF JSF</i>											
Military Construction Training											
• MILCON: BA01: PE	0.000	15.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	15.100
0502635F: USAF JSF Military											
Construction Air National Guard											
• RDTEN: BA05: PE 0604800N	453.037	504.296	103.144	0.000	103.144	61.179	1.637	0.454	0.467	0.00	19,983.056
2261: JSF SDD (CV)											,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
• RDTEN: BA05: PE 0604800N	35.666	24.420	5.787	0.000	5.787	4.995	0.000	0.000	0.000	0.00	108.345
3352: F-35C Sustainment/	00.000		<b></b>	0.000	<b>5 5.</b>		0.000	0.000	0.000	0.00	
Capability Enhancements (CV)											
• RDTEN: BA05: PE 0604810N	20.544	63.387	139.942	0.000	139.942	224.712	228.707	188.678	120 378	Continuing	Continuing
2936: <i>F-35C Follow-on</i>	20.011	00.001	.00.012	0.000	.00.0.2		22001	100.010	120.070	Containe	0011111111111
Development (CV), BPAC 2936											
• APN: BA01: Line Item	48.630	80.908	263.112	0.000	263.112	144.282	252.453	262.416	267 146	2,147.943	5.140 935
# 0147C: JSF Advance	.5.555	00.000	200.112	3.000	200.112		202.100	202.110	207.170	_,	3, 1 10.000
Procurement (CV), PE 0204146N											
• APN: BA01: Line Item #	1,033.142	890.650	582.324	0.000	582 324	1 105 952	1 805 276	2 582 852	2 730 285	27,953.966	55 785 279
0147: JSF (CV), PE 0204146N	.,000.112	000.000	002.02 1	3.000	002.02T	.,	.,000.270	_,002.002	_,. 55.256	,000.000	23,. 33.27
0147: JSF (CV), PE 0204146N											

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Exhibit R-2A, RDT&E Project Justi	fication: FY	2018 Air Fo	rce						Date: Ma	y 2017	
Appropriation/Budget Activity 3600 / 5					rogram Ele 604800F / <i>F-</i>	ment (Numl 35 - EMD	oer/Name)	653832 <i>l</i>	( <b>Number/Na</b> ' JSF DEPLO LITY ENHA	DYABILITY A	AND
C. Other Program Funding Summa	ary (\$ in Mill	ions)									
			FY 2018	FY 2018	FY 2018					Cost To	
<u>Line Item</u>	FY 2016	FY 2017	<b>Base</b>	<u>000</u>	<u>Total</u>	FY 2019	FY 2020	FY 2021		Complete	
<ul><li>APN: BA06: Line Item #</li></ul>	59.914	26.076	84.591	0.000	84.591	44.971	52.858	303.608	309.680	Continuing	Continuing
0605 USN: Initial Spares											
(CV), PE 0204146N											
<ul> <li>APN: BA05: Line Item # 0593:</li> </ul>	48.527	26.004	31.689	0.000	31.689	22.344	14.155	13.404	13.672	Continuing	Continuing
Modifications (CV), PE 0204146N											
<ul><li>OPN: BA03: Line Item #</li></ul>	48.773	39.099	34.032	29.245	63.277	37.742	46.019	47.389	62.299	Continuing	Continuino
4268: JSF Aviation Support											
Equipment ALIS Ship Alts											
<ul> <li>OPN BA03:: Spares for</li> </ul>	2.946	0.881	2.297	0.000	2.297	2.321	0.139	1.977	0.000	Continuing	Continuing
Aviation Support Equipment											
<ul> <li>USN OM: Operations</li> </ul>	78.529	120.648	207.302	0.000	207.302	211.332	236.682	281.622	327.009	Continuing	Continuing
and Maintenance											
<ul> <li>DoN MILCON: USN/USMC</li> </ul>	94.420	203.900	64.660	0.000	64.660	121.990	119.800	0.000	0.000	642.400	1,406.074
JSF Military Construction											
<ul> <li>RDTEN: BA05: PE 0604800M</li> </ul>	495.428	507.078	141.534	0.000	141.534	55.952	1.727	0.547	0.564	0.00	3,874.21
2262: JSF SDD (STOVL)											
<ul> <li>RDTEN: BA05: PE 0604800M</li> </ul>	30.819	24.348	11.400	0.000	11.400	0.000	0.000	0.000	0.000	0.00	99.115
3350: F-35B Sustainment/											
Capability Enhancements											
(STOVL), BPAC 3350											
<ul> <li>RDTEN: BA05: PE 0604810M</li> </ul>	20.544	63.387	139.942	0.000	139.942	224.712	228.707	188.678	120.192	Continuing	Continuing
2935: <i>F-35B Follow-on</i>											
Development (STOVL), BPAC 2935											
<ul> <li>APN: BA01: Line Item # 0152C:</li> </ul>	203.060	233.648	413.450	0.000	413.450	228.492	231.802	220.822	225.245	1,959.119	4,802.154
JSF Advance Procurement											
(STOVL), PE 0204146M											
<ul> <li>APN: BA01: Line Item # 0152:</li> </ul>	2,147.714	2,040.681	2,398.139	0.000	2,398.139	2,338.179	2,404.257	2,585.039	2,600.750	20,548.402	42,209.667
JSF (STOVL), PE 0204146M											
<ul><li>APN: BA06: Line Item #</li></ul>	111.569	123.252	105.671	0.000	105.671	92.198	160.150	140.989	143.809	Continuing	Continuing
0605 USMC: Initial Spares											
(STOVL), PE 0204146M											

PE 0604800F: *F-35 - EMD* 

Exhibit R-2A, RDT&E Project Justi	fication: FY	2018 Air Fo	rce						Date: Ma	y 2017	
Appropriation/Budget Activity 3600 / 5					rogram Eler 04800F / F-3	•	er/Name)	653832 <i>Î</i>	Number/Na JSF DEPLO JTY ENHA	OYÁBILITY A	AND
C. Other Program Funding Summa	ary (\$ in Milli	ons)									
			FY 2018	FY 2018	FY 2018					<b>Cost To</b>	
<u>Line Item</u>	FY 2016	FY 2017	Base	OCO	<u>Total</u>	FY 2019	FY 2020	FY 2021	FY 2022	Complete	<b>Total Cost</b>
APN: BA05: Line Item	204.464	34.928	34.963	0.000	34.963	70.305	67.039	79.174	80.761	Continuing	Continuing
# 0592: Modifications											
(STOVL), PE 0204146M											
USMC OM: Operations	184.171	233.576	315.630	0.000	315.630	375.578	412.813	470.490	544.031	Continuing	Continuing
and Maintenance											
• International 1: International SDD	17.000	22.000	27.450	0.000	27.450	0.000	0.000	0.000	0.000		-,
International 2:	189.922	185.641	124.114	0.000	124.114	151.776	150.588	149.848	87.113	Continuing	Continuing
International Production											
• International 3: International FoD	83.595	84.602	158.273	0.000	158.273	159.649	162.023	167.383	160.111		•
International 4: International	38.483	32.374	15.566	0.000	15.566	22.812	29.409	5.357	0.000	0.00	482.417
Unique (SDD/PSFD)											

### 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, 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.

### 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 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.

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	TOE Project Coot Analysis, EV 2			UN	ICLA5	סורובט									
Exhibit R-3, RDT&E I	Project C	ost Analysis: FY 2	018 Air F	orce							-	Date:	May 2017	7	
Appropriation/Budge 3600 / 5	et Activity	1					ogram Ele 14800F / F			ame)	653832		r/ <b>Name)</b> PLOYABI HANCEM		D
Product Developme	nt (\$ in M	illions)		FY 2	2016	FY 2	2017		2018 ise		2018 CO	FY 2018 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
Primary Hardware Development - 3002 SDD	SS/CPFF	Lockheed Martin : Fort Worth, TX	0.000	41.330	Mar 2016	35.844	Mar 2017	23.655	Mar 2018	0.000		23.655	4.995	105.824	105.82
Primary Hardware Development - 3002 ALIS	SS/CPFF	Lockheed Martin : Fort Worth, TX	87.723	48.107	Mar 2016	39.701	Mar 2017	33.740	Mar 2018	0.000		33.740	0.000	209.271	209.27
Primary Hardware Development - 14-C-0002 Band 2/5	SS/CPFF	Lockheed Martin : Fort Worth, TX	15.590	76.740	Mar 2016	28.220	Mar 2017	2.375	Mar 2018	0.000		2.375	0.000	122.925	122.92
		Subtotal	103.313	166.177		103.765		59.770		0.000		59.770	4.995	438.020	438.020
Support (\$ in Million	s)			FY 2	2016	FY 2	2017		2018 ise		2018 CO	FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Development Support	Various	AFLCMC : Eglin AFB, FL	19.720		Mar 2016	0.000		0.000		0.000		0.000	· ·	33.501	-
Various	Various	Various : Various	11.668	0.700	Mar 2016	2.410	Mar 2017	1.000	Mar 2018	0.000		1.000	0.000	15.778	-
		Subtotal	31.388	14.481		2.410		1.000		0.000		1.000	0.000	49.279	-
Test and Evaluation	(\$ in Milli	ons)		FY 2	2016	FY 2	2017		2018 ise		2018 CO	FY 2018 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
Developmental Test & Evaluation	WR	Various : Various	0.606	1.404	Mar 2016	0.976	Mar 2017	0.500	Mar 2018	0.000		0.500	0.000	3.486	-
		Subtotal	0.606	1.404		0.976		0.500		0.000		0.500	0.000	3.486	-
Management Service	es (\$ in M	illions)		FY 2	2016	FY 2	2017	FY 2	2018 ise		2018 CO	FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management	Various	Various : Various	1.000	2.316	Mar 2016	1.610	Mar 2017	0.000		0.000		0.000	0.000	4.926	-

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Air Force

R-1 Program Element (Number/Name)

PE 0604800F / F-35 - EMD

Project (Number/Name)

653832 I JSF DEPLOYABILITY AND SUITABILITY ENHANCEMENT

**Date:** May 2017

Management Service	es (\$ in M	illions)		FY 2	2016	FY 2	2017	FY 2 Ba		FY 2		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	1.000	2.316		1.610		0.000		0.000		0.000	0.000	4.926	-

	Prior Years	FY 2	2016	FY 2	017	FY 2 Ba	 FY 2 OC		FY 2018 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Subtotals	136.307	184.378		108.761		61.270	0.000		61.270	4.995	495.711	-
Other Service Funding Adjustment	60.773	105.477		61.799		24.068	-		24.068	4.995	257.112	-
Project Cost Totals	75.534	78.901		46.962		37.202	0.000		37.202	0.000	238.599	-

#### Remarks

3600 / 5

NOTE: Prior Years reflect \$75.534M USAF/\$74.351M USN/\$69.507M USMC/Total \$145.559M

FY 2016 reflects \$78.901M USAF/\$35.666M USN/\$30.819M USMC/\$38.992M International/Total \$176.938722M

FY 2017 reflects \$46.962M USAF/\$24.420M USN/\$24.348M USMC/\$13.031M International/Total \$108.761M

FY 2018 reflects \$37.202M USAF/\$5.787M USN/\$11.400M USMC/\$6.881M International/Total \$184.378M

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

Appropriation/Budget Activity

JSF D&S Includes:

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

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 A	ir Fo	rce																			Date	e: M	ay 2	017			
Appropriation/Budget Activity 600 / 5							- 1		_		Elem / F-3		•		er/Na	ıme)		653	832	(Nu I JS BILIT	SF D	EPL	OY/	ÁBIL	ITY A	AND	)
		FY 2	2016		F	Y 20	17		F	Y 20	18		FY	′ 201	9		FY	2020	)		FY 2	2021			FY 2	022	
	1	2	3	4	1	2	3 4	4 1	1	2	3 4	1	2	2 3	4	1	2	3	4	1	2	3	4	1	2	3	4
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)																											

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Exhibit R-4A, RDT&E Schedule Details: FY 2018 Air Force		Date: May 2017	
Appropriation/Budget Activity 3600 / 5	,	653832 <i>Ì J</i>	umber/Name) SF DEPLOYABILITY AND TY ENHANCEMENT

# Schedule Details

	St	Start		End	
Events	Quarter	Year	Quarter	Year	
D&S: Standard Operating Unit (SOUv2)	1	2016	4	2018	
D&S: Band 2/5	3	2016	3	2018	
D&S: Security Architecture	1	2016	3	2018	
D&S: Offboard Mission Support (OMS) Redesign	1	2016	4	2018	
D&S: Distributed Mission Training/Distributed Mission Operations (DMT/DMO)	1	2016	2	2019	

## **Note**

Schedule details reflect fiscal years

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