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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Navy										Date: May 2017		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604800M / (U)Joint Strike Fighter (JSF) - EMD							
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	47,639.443	526.247	531.426	152.934	-	152.934	55.952	1.727	0.547	0.564	0.000	48,908.840
2262: Joint Strike Fighter EMD STOVL	47,503.136	495.428	507.078	141.534	-	141.534	55.952	1.727	0.547	0.564	0.000	48,705.966
3350: F-35B Sustainment/ Capability Enhancements	136.307	30.819	24.348	11.400	-	11.400	0.000	0.000	0.000	0.000	0.000	202.874
Program MDAP/MAIS Code: Project MDAP/MAIS Code(s): 198												
A. Mission Description and Budget Item Justification												
<p>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.</p> <p>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.</p> <p>Funding at the accomplishment/planned program level is reported as the total of all services and partners as these activities support all aircraft variants.</p> <p>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, USMC, and USAF use.</p> <p>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</p> <p>JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under SDD because it includes those projects that have passed Milestone B approval and are conducting engineering and manufacturing development tasks aimed at meeting validated requirement prior to full-rate production decision.</p>												

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B. Program Change Summary (\$ in Millions)		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget		537.901	531.426	99.841	-	99.841
Current President's Budget		526.247	531.426	152.934	-	152.934
Total Adjustments		-11.654	0.000	53.093	-	53.093
• Congressional General Reductions		-	-			
• Congressional Directed Reductions		-	-			
• Congressional Rescissions		-	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-	-			
• Reprogrammings		-	-			
• SBIR/STTR Transfer		-11.655	0.000			
• Program Adjustments		0.000	0.000	53.093	-	53.093
• Rate/Misc Adjustments		0.001	0.000	0.000	-	0.000
Change Summary Explanation						
FY2018 Increase: \$53.09M to extend F-35 System Development and Demonstration.						
Sustainment/Capability Enhancements Standard Operating Unit schedule slipped from 01/2017 to 04/2018.						
Initial Operational Test and Evaluation (IOT&E) schedule slipped from 04/2018 to 01/2020.						

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy										Date: May 2017		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604800M / (U)Joint Strike Fighter (JSF) - EMD				Project (Number/Name) 2262 / Joint Strike Fighter EMD STOVL			
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
2262: Joint Strike Fighter EMD STOVL	47,503.136	495.428	507.078	141.534	-	141.534	55.952	1.727	0.547	0.564	0.000	48,705.966
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		
Project MDAP/MAIS Code: 198												
Note Total cost including United States Navy (USN), United States Marine Corps (USMC), International partner contributions and United States Air Force (USAF) funding are: FY16 \$1,462.496M, FY17 \$1,436.879M and FY18 \$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, other International Partner nations, and Foreign Military Sales customers are also participants in the Joint Strike Fighter program. The program shown here reflects United States Navy (USN), United States Marine Corps, United States Air Force (USAF), and International Partner funding. The top-line Program Element reflects the unique variant for each Service. Funding at the accomplishment/planned program level is reported as the total of all services and partners as these activities support all aircraft variants.												

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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604800M / (U)Joint Strike Fighter (JSF) - EMD	Project (Number/Name) 2262 / Joint Strike Fighter EMD STOVL				
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, USMC and USAF 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, Article Quantities in Each)		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Title: System Development and Demonstration (SDD)		850.841	925.860	331.782	0.000	331.782
Articles:		-	-	-	-	-
Description: SDD execution of the Air System (Lockheed Martin) including International Commonality Efforts; includes airframe, vehicle and mission systems, autonomic logistics, systems engineering & test efforts.						
FY 2016 Accomplishments: 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 including modifications to Operational Testing. Activity aligned to Integrated Master Schedule (IMS) in accordance with variant Intial Operational Capability (IOC).						
FY 2017 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 2018 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 2018 OCO Plans: N/A						
Title: F135 Propulsion System		123.198	120.000	0.000	0.000	0.000

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)						
		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Articles:		-	-	-	-	-
Description: SDD execution of the F135 Propulsion System (Pratt & Whitney) including International Commonality Effort; includes testing, autonomic logistics, integration & performing technology maturation efforts.						
FY 2016 Accomplishments: Continue SDD execution of the F135 Propulsion System with Pratt & Whitney that includes engine testing, autonomic logistics, integration and performing technology maturation efforts.						
FY 2017 Plans: Continue SDD execution of the F135 Propulsion System with Pratt & Whitney that includes engine testing, autonomic logistics, integration and performing technology maturation efforts.						
FY 2018 Base Plans: N/A						
FY 2018 OCO Plans: N/A						
Title: Systems Engineering (SE)		24.844	28.181	0.912	0.000	0.912
Articles:		-	-	-	-	-
Description: SDD SE including systems operations requirements analysis, program integration, requirements integration, and interoperability support.						
FY 2016 Accomplishments: Continue SDD SE, including systems operations requirements analysis, program integration, requirements integration, and interoperability support.						
FY 2017 Plans: Continue SDD SE, including systems operations requirements analysis, program integration, requirements integration, and interoperability support.						
FY 2018 Base Plans: Continue SDD SE, including systems operations requirements analysis, program integration, requirements integration, and interoperability support.						
FY 2018 OCO Plans:						

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
N/A						
Title: Development Test and Evaluation (DT&E) Articles: Description: Government DT&E/Operational Testing (OT) in support of first flight of test aircraft. Elements of DT&E include preparation for flight testing and weapons integration testing. FY 2016 Accomplishments: Continue government DT&E/OT in support of test aircraft. Continue flight sciences testing of CTOL, STOVL, and CV variants to expand air vehicle envelope and support mission systems testing. Elements of DT&E include flight testing, weapons integration testing, and component capabilities testing. FY 2017 Plans: Continue government DT&E/OT in support of test aircraft. Continue flight sciences testing of CTOL, STOVL, and CV variants to expand air vehicle envelope and support mission systems testing. Elements of DT&E include flight testing, weapons integration testing, and component capabilities testing. FY 2018 Base Plans: Continue government DT&E/OT in support of test aircraft. Continue flight sciences testing of CTOL, STOVL, and CV variants to expand air vehicle envelope and support mission systems testing. Elements of DT&E include flight testing, weapons integration testing, and component capabilities testing. FY 2018 OCO Plans: N/A		291.530 -	281.672 -	143.809 -	0.000 -	143.809 -
Title: Development Support Articles: Description: SDD Support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities. FY 2016 Accomplishments: Continue SDD support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities. FY 2017 Plans:		171.483 -	80.945 -	10.676 -	0.000 -	10.676 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)				FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Continue SDD support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities.								
FY 2018 Base Plans: Continue SDD support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities.								
FY 2018 OCO Plans: N/A								
Title: Autonomic Logistics Information System (ALIS)				0.600	0.221	40.694	0.000	40.694
Articles:				-	-	-	-	-
Description: SDD execution of Autonomic Logistics Information System (ALIS) develops the information infrastructure used to transmit health and maintenance action information for the aircraft to the appropriate users.								
FY 2016 Accomplishments: Continue SDD execution of ALIS to develop the information infrastructure used to transmit health and maintenance action information for the aircraft to the appropriate users.								
FY 2017 Plans: Continue SDD execution of ALIS to develop the information infrastructure used to transmit health and maintenance action information for the aircraft to the appropriate users.								
FY 2018 Base Plans: Continue SDD execution of ALIS to develop the information infrastructure used to transmit health and maintenance action information for the aircraft to the appropriate users.								
FY 2018 OCO Plans: N/A								
Accomplishments/Planned Programs Subtotals				1,462.496	1,436.879	527.873	0.000	527.873
Joint Strike Fighter 0604800F				497.031	403.505	255.745	-	255.745
Joint Strike Fighter 0604800N				453.037	504.296	103.144	-	103.144
International Partner				17.000	22.000	27.450	-	27.450

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)					FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Navy Subtotals					495.428	507.078	141.534	0.000	141.534

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

<u>Line Item</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018 Base</u>	<u>FY 2018 OCO</u>	<u>FY 2018 Total</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• RDT&E/0604800F: <i>F-35A Joint Strike Fighter</i>	497.031	403.505	255.745	-	255.745	69.655	7.796	5.598	0.000	0.000	22,265.229
• International: <i>International Partner (SDD)</i>	17.000	22.000	27.450	-	27.450	0.000	0.000	0.000	0.000	0.000	5,013.463
• APAF/0207142F BP10: <i>F-35A USAF CTOL</i>	5,259.812	4,997.394	4,544.684	-	4,544.684	4,253.696	4,209.813	4,862.684	4,796.042	144,128.756	198,657.199
• RDT&E/0604800N/2261: <i>F-35C Joint Strike Fighter (JSF) - EMD</i>	453.037	504.296	103.144	-	103.144	61.179	1.637	0.454	0.467	0.000	48,627.350
• APN/0605B: <i>F-35B Joint Strike Fighter STOVL Spares</i>	111.569	123.252	105.671	-	105.671	92.198	160.150	140.989	143.809	Continuing	Continuing
• APN/0605C: <i>F-35C Joint Strike Fighter CV Spares</i>	59.914	26.076	84.591	-	84.591	44.971	52.858	303.608	309.680	Continuing	Continuing
• MILCON 0207142F: <i>USAF MILCON Operations</i>	132.850	305.700	80.000	-	80.000	27.500	0.000	0.000	0.000	1,312.100	2,511.350
• APAF/0207142F BP11: <i>USAF Modification Funding</i>	70.167	175.811	68.270	-	68.270	230.448	279.814	259.978	301.899	Continuing	Continuing
• FOD/0207142F: <i>USAF Follow-on Development (FoD)</i>	47.023	127.302	299.408	-	299.408	463.321	474.971	396.488	263.548	Continuing	Continuing
• 0207142F/USAF BP16: <i>USAF Joint Strike Fighter Initial Spares</i>	229.582	362.792	320.831	-	320.831	319.151	416.722	399.361	394.654	3,893.112	7,567.519
• USAF/OPAF 0207142F: <i>USAF OPAF</i>	3.858	2.333	3.326	-	3.326	3.310	2.993	2.463	2.507	Continuing	Continuing
• APN/0592: <i>F-35B STOVL Series</i>	204.464	34.928	34.963	-	34.963	70.305	67.039	79.174	80.761	Continuing	Continuing
• APN/0593: <i>F-35C CV Series</i>	48.527	26.004	31.689	-	31.689	22.344	14.155	13.404	13.672	Continuing	Continuing
• RDT&E/0604800N/3352: <i>F-35C Sustainment/ Capability Enhancements</i>	35.666	24.420	5.787	-	5.787	4.995	0.000	0.000	0.000	0.000	207.175

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C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• USAF SDD BP 653832: JSF Deployability and Suitability Enhancements	78.901	46.962	37.202	-	37.202	0.000	0.000	0.000	0.000	0.000	238.599
• PAF/0207142F BP10: F-35A JSF CTOL Advance Procurement	460.260	404.500	780.300	-	780.300	405.200	1,003.600	965.300	414.700	13,451.541	20,181.883
• DCA/0207142F 676011: Dual Capable Aircraft (DCA)	4.967	25.743	35.122	-	35.122	47.016	49.026	67.040	62.599	Continuing	Continuing
• APN/0147: F-35C Joint Strike Fighter CV	1,062.542	939.280	663.232	-	663.232	1,302.363	2,016.259	2,835.305	2,992.701	30,639.555	55,785.279
• APN/0152C: F-35B Joint Strike Fighter STOVL AP	203.060	233.648	413.450	-	413.450	228.492	231.802	220.822	225.245	1,959.119	4,802.154
• APN/0152: F-35B Joint Strike Fighter STOVL	2,291.599	2,243.741	2,631.787	-	2,631.787	2,660.443	2,723.935	2,816.841	2,821.572	22,732.766	47,011.821
• DoN MILCON: DoN JSF MILCON	94.420	230.900	64.660	-	64.660	121.990	119.800	0.000	0.000	642.400	1,406.074
• International 2: Intl Production/ Reprogramming Lab	189.922	185.641	124.114	-	124.114	151.776	150.588	149.848	87.119	Continuing	Continuing
• OPN/4268: Logistics Information System (ALIS)	48.773	39.099	34.032	29.245	63.277	32.742	46.073	47.389	62.299	Continuing	Continuing
• MC/0207597F: USAF MILCON Training	65.400	20.000	21.000	-	21.000	34.000	15.900	0.000	0.000	0.000	156.300
• International 3: International R&D FoM/D&S	83.595	84.602	158.273	-	158.273	159.649	162.023	167.383	160.111	Continuing	Continuing
• OPN 902010 S8JC: Aviation Support Equipment (ALIS)	2.946	0.881	2.297	-	2.297	2.321	0.139	1.977	0.000	Continuing	Continuing
• USAF O&M: USAF O&M	312.557	425.978	452.906	-	452.906	555.687	873.270	998.979	958.708	Continuing	Continuing
• USAF MILCON 0502635F: USAF MILCON Air National Guard	0.000	15.100	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	15.100
• USN 2936: F-35C Follow- on Development (CV)	20.544	63.387	139.942	-	139.942	224.712	228.707	188.678	120.192	Continuing	Continuing
• International Unique: Intl Unique (SDD/PSFD)	38.483	32.374	15.566	-	15.566	0.000	0.000	0.000	0.000	0.000	482.417

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C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
Remarks											
D. Acquisition Strategy											
<p>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.</p> <p>On 25 April 2011, the Department of Defense terminated the development of the General Electric Rolls-Royce Fighter Engine Team F136 propulsion system.</p> <p>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.</p> <p>In Fiscal Year 2007, separate cost-type contracts were awarded to Lockheed Martin Aeronautics Company and Pratt & Whitney to begin low rate initial production for F-35 air vehicles, propulsion systems, and sustainment for the fielded systems. Transition to fixed-price-type 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.</p> <p>At the completion of Low Rate Initial Production, a Defense Acquisition Board review, and Milestone Decision Authority approval, the F-35 Program will enter Full Rate Production. Fixed-price procurement contracts will be awarded for F-35 air vehicles and propulsion systems for the U.S. Services and international participants. Multiyear procurement authority for the F-35 Air System will be requested for Full Rate Production. Concurrently, a fixed-price-type Performance Based Logistics contracts for sustainment will be requested to support multi-Service and multi-national requirements.</p>											
E. Performance Metrics											
<p>The following are the key performance parameters from the F-35 Selected Acquisition Report:</p> <p>Performance Metrics reflect Key Program Performance data.</p> <p>Combat Radius</p> <p>F-35A Meets/Exceeds Tripwire Requirement</p> <p>F-35B Meets/Exceeds Tripwire Requirement</p>											

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<p>F-35C Meets/Exceeds Tripwire Requirement</p> <p>CV Recovery Performance</p> <p>Maximum Approach Speed at required carrier landing weight</p> <p>Mission Reliability</p> <p>F-35A Meets/Exceeds Tripwire Requirement</p> <p>F-35B Meets/Exceeds Tripwire Requirement</p> <p>F-35C Meets/Exceeds Tripwire Requirement</p> <p>Sortie Generation Rate</p> <p>F-35A Meets Tripwire Requirement</p> <p>F-35B Meets Tripwire Requirement</p> <p>F-35C Meets Tripwire Requirement</p> <p>Logistics Footprint</p> <p>F-35A Less than or equal to 8 C-17 equivalents</p> <p>F-35B Less than or equal to 8 C-17 equivalents</p> <p>F-35C Less than or equal to 38,800 cu ft., 217 ST</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy												Date: May 2017			
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Product Development (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		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 - SDD	C/CPIF	Lockheed Martin : Ft. Worth, TX	30,424.313	795.482	Dec 2015	774.642	Dec 2016	274.720	Dec 2017	-		274.720	170.619	32,439.776	32,439.776
Primary Hardware Development - Award Fee	C/CPIF	Lockheed Martin : Ft. Worth, TX	1,709.429	17.830	Dec 2015	11.430	Dec 2016	35.000	Dec 2017	-		35.000	2.500	1,776.189	1,776.189
Primary Hardware Development - ALIS	C/CPIF	Lockheed Martin : Ft. Worth, TX	461.717	0.600	Dec 2015	0.221	Dec 2016	40.694	Dec 2017	-		40.694	27.400	530.632	530.632
Primary Hardware Development - 0031	C/CPFF	Lockheed Martin : Ft. Worth, TX	0.337	0.000		0.506	Dec 2016	0.169	Dec 2017	-		0.169	0.000	1.012	1.012
Primary Hardware Development - 0020	C/CPFF	Lockheed Martin : Ft. Worth, TX	45.120	36.718	Dec 2015	139.281	Dec 2016	21.893	Dec 2017	-		21.893	0.000	243.012	243.012
Primary Hardware Development - 0016	C/CPFF	Lockheed Martin : Ft. Worth, TX	15.045	0.811	Dec 2015	0.000		0.000		-		0.000	0.000	15.856	15.856
Primary Hardware Development - SDD	C/CPIF	Pratt and Whitney : Hartford, CT	7,180.563	115.765	Dec 2015	105.448	Dec 2016	0.000		-		0.000	0.000	7,401.776	7,401.776
Primary Hardware Development - Award Fee	C/CPIF	Pratt and Whitney : Hartford, CT	670.213	7.433	Dec 2015	14.552	Dec 2016	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	-		0.911	0.000	459.859	459.859
Prior Year No Longer Funded in FYDP	Various	Various : Various	2,893.266	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		-		373.387	200.519	46,453.576	46,453.576
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%.															
Support (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		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
Development Support - AFFTC/Eglin	Various	Eglin AFB : Eglin, FL	133.721	5.205	Nov 2015	1.834	Nov 2016	0.830	Nov 2017	-		0.830	0.000	141.590	-

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy												Date: May 2017			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604800M I (U)Joint Strike Fighter (JSF) - EMD				Project (Number/Name) 2262 I Joint Strike Fighter EMD STOVL					
Support (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		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
Development Support - AFLCMC/AFRL	Various	AFLCMC/AFRL : Various	65.104	10.725	Nov 2015	3.133	Nov 2016	0.000		-		0.000	0.000	78.962	-
Engine Test and Evaluation Support - AEDC/Fuel	Various	Various : Various	191.102	8.845	Nov 2015	3.771	Nov 2016	0.000		-		0.000	0.000	203.718	-
Development Support - Miscellaneous	Various	Various : Various	110.915	12.601	Nov 2015	12.356	Nov 2016	2.927	Nov 2017	-		2.927	0.764	139.563	-
Software Development Support	Various	NAWC WD : China Lake, CA	152.642	10.533	Nov 2015	4.312	Nov 2016	0.000		-		0.000	0.000	167.487	-
Development Support	Various	NAWC AD : Patuxent, MD	406.999	98.485	Nov 2015	41.726	Nov 2016	6.913	Nov 2017	-		6.913	0.000	554.123	-
Prior Year No Longer Funded in FYDP	Various	Various : Various	77.641	0.000		0.000		0.000		-		0.000	0.000	77.641	-
Subtotal			1,138.124	146.394		67.132		10.670		-		10.670	0.764	1,363.084	-
Test and Evaluation (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		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
Developmental Test and Evaluation	Various	NAWC WD : China Lake, CA	38.905	1.640	Nov 2015	2.712	Nov 2016	0.000		-		0.000	0.000	43.257	-
Developmental Test and Evaluation	Various	NAWC AD : Patuxent River, MD	668.838	83.330	Nov 2015	54.944	Nov 2016	4.400	Nov 2017	-		4.400	0.000	811.512	-
Developmental Test and Evaluation	Various	Edwards AFB : Edwards AFB, CA	618.609	65.334	Nov 2015	54.976	Nov 2016	4.400	Nov 2017	-		4.400	0.000	743.319	-
Developmental Test and Evaluation - Other (including Classified PIDs)	Various	Other (incl Classified PIDs) : Various	204.506	36.766	Nov 2015	30.602	Nov 2016	2.400	Nov 2017	-		2.400	0.000	274.274	-
Operational Test and Evaluation Support	Various	WEPS/Eglin : Various	27.829	0.000		0.000		0.000		-		0.000	0.000	27.829	-
Operational Test and Evaluation Support	Various	OT-AFOTEC/ AFFTC : Kirkland	179.619	24.926	Nov 2015	35.436	Nov 2016	41.976	Nov 2017	-		41.976	2.150	284.107	-

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy												Date: May 2017			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604800M / (U)Joint Strike Fighter (JSF) - EMD				Project (Number/Name) 2262 / Joint Strike Fighter EMD STOVL					
Test and Evaluation (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		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
		AFB, NM/Eglin AFB, FL													
Operational Test and Evaluation Support	Various	OT-JITC/OPTEC : Various	36.435	24.808	Nov 2015	42.956	Nov 2016	71.886	Nov 2017	-		71.886	2.143	178.228	-
Operational Test and Evaluation Support	Various	OT-CHLK : China Lake, CA	0.000	3.999	Nov 2015	9.912	Nov 2016	15.392	Nov 2017	-		15.392	0.000	29.303	-
Operational Test and Evaluation Support	Various	OT-Various : Various	0.105	7.718	Nov 2015	2.775	Nov 2016	3.274	Nov 2017	-		3.274	0.000	13.872	-
Subtotal			1,774.846	248.521		234.313		143.728		-		143.728	4.293	2,405.701	-
Management Services (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		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	Mantech : Arlington, VA	0.000	7.845	Dec 2015	8.037	Dec 2016	0.000		-		0.000	0.000	15.882	15.882
AFLCMC Civilian Pay	Various	AFLCMC CIVPAY : Wright Patterson, AFB, OH	94.833	25.478	Oct 2015	10.270	Oct 2016	0.000		-		0.000	0.000	130.581	-
Program Management Support	C/CPFF	Allutiq : Arlington, VA	1.934	0.279	Dec 2015	0.192	Dec 2016	0.000		-		0.000	0.000	2.405	2.405
Facilities BOSS	WR	Various : Various	26.070	6.702	Dec 2015	9.013	Dec 2016	0.000		-		0.000	0.000	41.785	-
CIO ODCs	Various	Various : Various	9.058	3.963	Dec 2015	7.256	Dec 2016	0.000		-		0.000	0.000	20.277	-
Travel	Various	Various : Various	21.959	2.871	Oct 2015	2.343	Oct 2016	0.088	Dec 2017	-		0.088	0.000	27.261	-
Program Management Support	Various	Jacobs BOSS : Arlington, VA	26.012	24.428	Dec 2015	24.686	Dec 2016	0.000		-		0.000	0.000	75.126	-
OPS - Cost/FM/EV ACT-I	Various	OPS - Cost/FM/EV : Arlington, VA	2.000	0.000		3.845	Dec 2016	0.000		-		0.000	0.000	5.845	-
Program Management Support	Various	Andrews AFB : Camp Springs, MD	0.242	0.116	Dec 2015	0.135	Dec 2016	0.000		-		0.000	0.000	0.493	-
Prior Year No Longer Funded in FYDP	Various	Various : Various	593.944	0.000		0.000		0.000		-		0.000	0.000	593.944	-

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy												Date: May 2017					
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604800M I (U)Joint Strike Fighter (JSF) - EMD				Project (Number/Name) 2262 I Joint Strike Fighter EMD STOVL							
Management Services (\$ in Millions)						FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		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			776.052	71.682		65.777		0.088		-		0.088	0.000	913.599	-		
Remarks																	
Cumulative Award Fee earned in prior years for Stanley is 99%.																	
			Prior Years	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	Cost To Complete	Total Cost	Target Value of Contract		
Cost Category Subtotals			47,503.136	1,462.496		1,436.879		527.873		-		527.873	205.576	51,135.960	-		
Joint Strike Fighter 0604800F			-	497.031		403.505		255.745		-		255.745			-		
Joint Strike Fighter 0604800N			-	453.037		504.296		103.144		-		103.144			-		
International Partner			-	17.000		22.000		27.450		-		27.450			-		
Project Cost Totals			47,503.136	495.428		507.078		141.534		-		141.534	205.576	51,135.960	-		
Remarks																	
Subtotals and totals may not add due to rounding.																	
NOTE 1: Prior Years reflect \$21,025.899M USAF/\$18,858.842M USN/\$2,671.382 USMC /\$4,947.013 International/Total \$47,503.136M 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 \$255.745M USAF/\$103.144M USN/\$141.534M USMC/\$27.450M 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																	

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 Navy

Date: May 2017

Appropriation/Budget Activity

1319 / 5

R-1 Program Element (Number/Name)

PE 0604800M / (U)Joint Strike Fighter (JSF)
- EMD

Project (Number/Name)

2262 / Joint Strike Fighter EMD STOVL

JSF Variants - CV, STOVL & CTOL	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022							
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q				
Acquisition Milestones				F-35A IOC ▲								F-35C IOC ▲																				
Test & Evaluation	Block 3i DT&E/Cert																															
	Block 3F DT&E/Cert																															
									Initial Operational Test and Evaluation (IOT&E)																							
Defense Acquisition Reviews				IPR ■				IPR ■				IPR ■				IPR ■				IPR ■				IPR ■								
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft)	LRIP 8 (AF 19, USN 4, USMC 6)																															
					LRIP 9 (AF 19, USN 4, USMC 6)																											
									LRIP 10 (AF 28, USN 4, USMC 6)																							
													LRIP 11 (AF 47, USN 6, USMC 15)																			
																	LRIP 12 (AF 48, USN 4, USMC 16)															
																					LRIP 13 (AF 46, USN 4, USMC 20)											
																									LRIP 14 (AF 48, USN 9, USMC 20)							
																													LRIP 15 (AF 48, USN 16, USMC 20)			

2018PB - 0604800M - 2262

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Exhibit R-4A, RDT&E Schedule Details: FY 2018 Navy			Date: May 2017
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604800M / (U)Joint Strike Fighter (JSF) - EMD	Project (Number/Name) 2262 / Joint Strike Fighter EMD STOVL	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
JSF Variants - CV, STOVL & CTOL				
Acquisition Milestones: F-35A Initial Operational Capability	4	2016	4	2016
Acquisition Milestones: F-35C Initial Operational Capability	4	2018	4	2018
Test & Evaluation: Test and Evaluation: Block 3i DT&E/Cert	1	2016	4	2016
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) FY-16	4	2016	4	2016
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-17	4	2017	4	2017
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-18	4	2018	4	2018
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-19	4	2019	4	2019
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-20	4	2020	4	2020
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-21	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

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Exhibit R-4A, RDT&E Schedule Details: FY 2018 Navy			Date: May 2017		
Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0604800M / (U)Joint Strike Fighter (JSF) - EMD		Project (Number/Name) 2262 / Joint Strike Fighter EMD STOVL	
		Start		End	
Events by Sub Project		Quarter	Year	Quarter	Year
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
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

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy										Date: May 2017		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604800M I (U)Joint Strike Fighter (JSF) - EMD				Project (Number/Name) 3350 I F-35B Sustainment/Capability Enhancements			
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
3350: F-35B Sustainment/Capability Enhancements	136.307	30.819	24.348	11.400	-	11.400	0.000	0.000	0.000	0.000	0.000	202.874
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		
Project MDAP/MAIS Code: 198												
Note												
Total cost including United States Navy (USN), United States Marine Corps (USMC), United States Air Force (USAF) and International Partner contributions funding is: FY16 \$184.378M, FY17 \$108.761M and FY18 \$61.270M												
R-2A table shown above reflect service funding only.												
R-2A (section B)/R-3 displays total combined program (i.e. not Service-specific), including International partners.												
D&S Includes: USAF PE 64800F BPAC 653832 USN PE 0604800N Project Unit 3352 USMC PE 0604800M Project Unit 3350												
A. Mission Description and Budget Item Justification												
Funds enhancements to the deployability and suitability of the air system such as low observable (LO) maintenance enhancements, security architecture updates, redesign of obsolete items, and integrated training simulators. These enhancements will provide vital on-demand support to the war-fighter within a deployed environment and are not funded via the existing System Development and Demonstration (SDD) program or tied to Block 4 Operational Flight Program development. Funding will result in achieving targeted suitability, maintainability, and affordability returns employing the F-35 in deployed or austere locations.												
-Funding at the accomplishment/planned program level is reported as the total of all services as these activities support all aircraft variants. By agreement, USN and USMC funding shares are approximately equal and when combined are equal to the USAF share.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)							FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	
Title: Sustainment and Capability Enhancements							118.070	64.064	26.030	0.000	26.030	
Articles:							-	-	-	-	-	
Description: Apply disciplined systems engineering, refinement of requirements, develop and acquire												

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy				Date: May 2017		
Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0604800M I (U)Joint Strike Fighter (JSF) - EMD		Project (Number/Name) 3350 I F-35B Sustainment/Capability Enhancements		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
suitability and maintainability of the air system such as decentralized maintenance capabilities, LO maintenance enhancements, security architecture updates, redesign of obsolete items and integrated training simulators.						
FY 2016 Accomplishments: Continue to conduct systems engineering, technical maturation, integration and test planning for suitability and deployability enhancements. Increase is to perform sustaining engineering, development and test activities necessary to gain capacity, compatibility, and expansion in wiring, power, wing conduits, etc. in support of electronic warfare. This includes funding for suitability enhancements such as Standard Operating Unit Version 2 and Band 2/5 efforts.						
FY 2017 Plans: Continue to conduct systems engineering, technical maturation, integration and test planning for suitability and deployability enhancements. Increase is to perform sustaining engineering, development and test activities necessary to gain capacity, compatibility, and expansion in wiring, power, wing conduits, etc. in support of electronic warfare. This includes funding for suitability enhancements such as Standard Operating Unit Version 2 and Band 2/5 efforts.						
FY 2018 Base Plans: Continue to conduct systems engineering, technical maturation, integration and test planning for suitability and deployability enhancements. Increase is to perform sustaining engineering, development and test activities necessary to gain capacity, compatibility, and expansion in wiring, power, wing conduits, etc. in support of electronic warfare. This includes funding for suitability enhancements such as Standard Operating Unit Version 2 and Band 2/5 efforts.						
FY 2018 OCO Plans: N/A						
Title: Development Support		16.592	3.556	1.000	0.000	1.000
Articles:		-	-	-	-	-
Description: SDD support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities.						
FY 2016 Accomplishments:						

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy				Date: May 2017		
Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0604800M / (U)Joint Strike Fighter (JSF) - EMD		Project (Number/Name) 3350 / F-35B Sustainment/Capability Enhancements		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Continue to initiate development enhancement support for Deployable Autonomic Logistics Information System, decentralized maintenance capabilities, Low Observable maintenance enhancements, security architecture updates, redesign of obsolete items, and integrated training simulators. FY 2017 Plans: Continue SDD support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities. Development Support decrease is due to across the board reduction between both services. FY 2018 Base Plans: Continue SDD support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities. Development Support decrease is due to across the board reduction between both services. FY 2018 OCO Plans: N/A						
Title: Development Test and Evaluation Articles: Description: Verification and testing for deployability and suitability enhancements. FY 2016 Accomplishments: Continue to initiate government test and evaluation of capability enhancements for Deployable Autonomic Logistics Information system, and LO maintenance enhancements. FY 2017 Plans: Continue to initiate government test and evaluation of capability enhancements for Deployable Autonomic Logistics Information system, and LO maintenance enhancements. FY 2018 Base Plans: Continue to initiate government test and evaluation of capability enhancements for Deployable Autonomic Logistics Information system, and LO maintenance enhancements. FY 2018 OCO Plans: N/A		1.609 -	1.440 -	0.500 -	0.000 -	0.500 -
Title: Autonomic Logistics Information System		48.107	39.701	33.740	0.000	33.740

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy								Date: May 2017				
Appropriation/Budget Activity 1319 / 5				R-1 Program Element (Number/Name) PE 0604800M / (U)Joint Strike Fighter (JSF) - EMD				Project (Number/Name) 3350 / F-35B Sustainment/Capability Enhancements				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Articles:								-	-	-	-	-
Description: SDD execution of Autonomic Logistics Information System (ALIS) develops the information infrastructure used to transmit health and maintenance action information for the aircraft to the appropriate users.												
FY 2016 Accomplishments: SDD execution of Autonomic Logistics Information System (ALIS) develops the information infrastructure used to transmit health and maintenance action information for the aircraft to the appropriate users.												
FY 2017 Plans: SDD execution of Autonomic Logistics Information System (ALIS) develops the information infrastructure used to transmit health and maintenance action information for the aircraft to the appropriate users.												
FY 2018 Base Plans: SDD execution of Autonomic Logistics Information System (ALIS) develops the information infrastructure used to transmit health and maintenance action information for the aircraft to the appropriate users.												
FY 2018 OCO Plans: N/A												
Accomplishments/Planned Programs Subtotals								184.378	108.761	61.270	0.000	61.270
Joint Strike Fighter 0604800F								78.901	46.962	37.202	-	37.202
International Partner								38.992	13.031	6.881	-	6.881
Joint Strike Fighter 0604800N 3352								35.666	24.420	5.787	-	5.787
Navy Subtotals								30.819	24.348	11.400	0.000	11.400
C. Other Program Funding Summary (\$ in Millions)												
Line Item	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	
• RDT&E/0604800F: F-35A Joint Strike Fighter	497.031	403.505	255.745	-	255.745	69.655	7.796	5.598	0.000	0.000	22,265.229	
• International: International Partner (SDD)	17.000	22.000	27.450	-	27.450	0.000	0.000	0.000	0.000	0.000	5,013.463	

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy										Date: May 2017		
Appropriation/Budget Activity 1319 / 5				R-1 Program Element (Number/Name) PE 0604800M / (U)Joint Strike Fighter (JSF) - EMD				Project (Number/Name) 3350 / F-35B Sustainment/Capability Enhancements				
C. Other Program Funding Summary (\$ in Millions)												
Line Item	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	
• APAF/0207142F BP10: F-35A USAF CTOL	5,259.812	4,997.394	4,544.684	-	4,544.684	4,253.696	4,209.813	4,862.684	4,796.042	144,128.756	198,657.199	
• RDT&E/0604800N/2261: F-35C Joint Strike Fighter (JSF) - EMD	453.037	504.296	103.144	-	103.144	61.179	1.637	0.454	0.467	0.000	48,627.350	
• APN/0605B: F-35B Joint Strike Fighter STOVL Spares	111.569	123.252	105.671	-	105.671	92.198	160.150	140.989	143.809	Continuing	Continuing	
• APN/0605C: F-35C Joint Strike Fighter CV Spares	59.914	26.076	84.591	-	84.591	44.971	52.858	303.608	309.680	Continuing	Continuing	
• MILCON 0207142F: USAF MILCON Operations	132.850	305.700	80.000	-	80.000	27.500	0.000	0.000	0.000	1,312.100	2,511.350	
• APAF/0207142F BP11: USAF Modification Funding	70.167	175.811	68.270	-	68.270	230.448	279.814	259.978	301.899	Continuing	Continuing	
• FOD/0207142F: USAF Follow-on Development (FoD)	47.023	127.302	299.408	-	299.408	463.321	474.971	396.488	263.548	Continuing	Continuing	
• 0207142F/USAF BP16: USAF Joint Strike Fighter Initial Spares	229.582	362.792	320.831	-	320.831	319.151	416.722	399.361	394.654	3,893.112	7,567.519	
• USAF/OPAF 0207142F: USAF OPAF	3.858	2.333	3.326	-	3.326	3.310	2.993	2.463	2.507	Continuing	Continuing	
• APN/0592: F-35B STOVL Series	204.464	34.928	34.963	-	34.963	70.305	67.039	79.174	80.761	Continuing	Continuing	
• APN/0593: F-35C CV Series	48.527	26.004	31.689	-	31.689	22.344	14.155	13.404	13.672	Continuing	Continuing	
• RDT&E/0604800N/3352: F-35C Sustainment/ Capability Enhancements	35.666	24.420	5.787	-	5.787	4.995	0.000	0.000	0.000	0.000	207.175	
• USAF SDD BP 653832: Deployability and Suitability Enhancements	78.901	46.962	37.202	-	37.202	0.000	0.000	0.000	0.000	0.000	238.599	
• PAF/0207142F BP10: F-35A JSF CTOL Advance Procurement	460.260	404.500	780.300	-	780.300	405.200	1,003.600	965.300	414.700	13,451.541	20,181.883	
• DCA/0207142F 676011: Dual Capable Aircraft (DCA)	4.967	25.743	35.122	-	35.122	47.016	49.026	67.040	62.599	Continuing	Continuing	
• APN/0147: F-35C Joint Strike Fighter CV	1,062.542	939.280	663.232	-	663.232	1,302.363	2,016.259	2,835.305	2,992.701	30,639.555	55,785.279	

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy										Date: May 2017		
Appropriation/Budget Activity 1319 / 5				R-1 Program Element (Number/Name) PE 0604800M / (U)Joint Strike Fighter (JSF) - EMD				Project (Number/Name) 3350 / F-35B Sustainment/Capability Enhancements				
C. Other Program Funding Summary (\$ in Millions)												
Line Item	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	
• APN/0152C: F-35B Joint Strike Fighter STOVL AP	203.060	233.648	413.450	-	413.450	228.492	231.802	220.822	225.245	1,959.119	4,802.154	
• APN/0152: F-35B Joint Strike Fighter STOVL	2,291.599	2,243.741	2,631.787	-	2,631.787	2,660.443	2,723.935	2,816.841	2,821.572	22,732.766	47,011.821	
• DoN MILCON: DoN JSF MILCON	94.420	230.900	64.660	-	64.660	121.990	119.800	0.000	0.000	642.400	1,406.074	
• International 2: International Production/Reprogramming Lab	189.922	185.641	124.114	-	124.114	151.776	150.588	149.848	87.119	Continuing	Continuing	
• OPN/4268: Logistics Information System (ALIS)	48.773	39.099	34.032	29.245	63.277	32.742	46.073	47.389	62.299	Continuing	Continuing	
• MC/0207597F: USAF MILCON Training	65.400	20.000	21.000	-	21.000	34.000	15.900	0.000	0.000	0.000	156.300	
• International 3: International R&D FoM/D&S	83.595	84.602	158.273	-	158.273	159.649	162.023	167.383	160.111	Continuing	Continuing	
• OPN 902010 S8JC: Aviation Support Equipment (ALIS)	2.946	0.881	2.297	-	2.297	2.321	0.139	1.977	0.000	Continuing	Continuing	
• USAF O&M: USAF O&M	312.557	425.978	452.906	-	452.906	555.687	873.270	998.979	958.708	Continuing	Continuing	
• USAF MILCON 0502635F: USAF MILCON Air National Guard	0.000	15.100	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	15.100	
• USN 2936: F-35C Follow-on Development (CV)	20.544	63.387	139.942	-	139.942	224.712	228.707	188.678	120.192	Continuing	Continuing	
• International Unique: Intl Unique (SDD/PSFD)	38.483	32.374	15.566	-	15.566	0.000	0.000	0.000	0.000	0.000	482.417	
Remarks												
D. Acquisition Strategy												
Implement Joint Strike Fighter Joint Executive Steering Board/Configuration Steering Board approved enhancements to existing capabilities through existing contracts using the engineering change proposal process. When appropriate, new cost type contracts may be established.												
E. Performance Metrics												
The following are the key performance parameters from the F-35 Selected Acquisition Report:												
Performance Metrics reflect Key Program Performance data.												

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy		Date: May 2017
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604800M / (U)Joint Strike Fighter (JSF) - EMD	Project (Number/Name) 3350 / F-35B Sustainment/Capability Enhancements
<p>Combat Radius</p> <p>F-35A Meets/Exceeds Tripwire Requirement</p> <p>F-35B Meets/Exceeds Tripwire Requirement</p> <p>F-35C Meets/Exceeds Tripwire Requirement</p> <p>F-35B Performance</p> <p>Flat Deck (High-High-High Profile Fuel) Meets Requirement In Tripwire Band</p> <p>Ski Jump (High-Medium-Medium-High Profile Fuel) Meets Requirement In Tripwire Band</p> <p>Vertical Landing Bring Back Meets Requirement In Tripwire Band</p> <p>F-35C Recovery</p> <p>Maximum Approach Speed Meets Requirement In Tripwire Band</p> <p>Interoperability</p> <p>Net Ready Criteria- Meets Requirement In Tripwire Band</p> <p>Radio Frequency Signature Meets/Exceeds Tripwire Requirement</p> <p>Force Protection</p> <p>CB Pilot Protection (New Key Performance Parameters Per CN3) - Meets/Exceeds Tripwire Requirement</p> <p>Mission Reliability</p> <p>F-35A Meets/Exceeds Tripwire Requirement</p> <p>F-35B United States Marine Corps (USMC) Meets/Exceeds Tripwire Requirement</p> <p>F-35B United Kingdom (UK) Meets/Exceeds Tripwire Requirement</p> <p>F-35C Exceeds Operational Requirements Document Objective</p> <p>Sortie Generation Rate</p> <p>F-35A Meets/Exceeds Tripwire Requirement</p> <p>F-35B USMC Meets/Exceeds Tripwire Requirement</p> <p>F-35B UK Meets/Exceeds Tripwire Requirement</p> <p>F-35C Meets/Exceeds Tripwire Requirement</p> <p>Logistics Footprints</p>		

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy		Date: May 2017
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604800M / (U)Joint Strike Fighter (JSF) - EMD	Project (Number/Name) 3350 / F-35B Sustainment/Capability Enhancements
<p>F-35A Meets/Exceeds Tripwire Requirement F-35B USMC Meets/Exceeds Tripwire Requirement</p> <p>Logistics Footprint- Volume F-35B USMC Exceeds ORD Objective F-35B UK Meets/Exceeds Tripwire Requirement F-35C Exceeds Operational Requirements Document (ORD) Objective</p> <p>Logistics Footprint-Weight F-35B USMC Exceeds ORD Objective F-35B UK Meets/Exceeds Tripwire Requirement F-35C Exceeds ORD Objective</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy												Date: May 2017			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604800M / (U)Joint Strike Fighter (JSF) - EMD				Project (Number/Name) 3350 / F-35B Sustainment/Capability Enhancements					
Product Development (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		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	C/CPFF	Lockheed Martin : Fort Worth, TX	0.000	41.330	Mar 2016	35.844	Mar 2017	23.655	Mar 2018	-		23.655	4.995	105.824	105.824
Primary Hardware Development - 3002 ALIS	C/CPFF	Lockheed Martin : Fort Worth, TX	87.723	48.107	Mar 2016	39.701	Mar 2017	33.740	Mar 2018	-		33.740	0.000	209.271	209.271
Primary Hardware Development -14-C-002 Band 2/5	C/CPFF	Lockheed Martin : Fort Worth, TX	15.590	76.740	Mar 2016	28.220	Mar 2017	2.375	Mar 2018	-		2.375	0.000	122.925	122.925
Subtotal			103.313	166.177		103.765		59.770		-		59.770	4.995	438.020	438.020
Support (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		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
Development Support	Various	AFLCMC : Eglin AFB	19.720	13.781	Mar 2016	0.000		0.000		-		0.000	0.000	33.501	-
Development Support	Various	Various : Various	11.668	0.700	Mar 2016	2.410	Mar 2017	1.000	Mar 2018	-		1.000	0.000	15.778	-
Subtotal			31.388	14.481		2.410		1.000		-		1.000	0.000	49.279	-
Test and Evaluation (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		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
Developmental Test & Evaluation	WR	Various : Various	0.606	1.404	Mar 2016	0.976	Mar 2017	0.500	Mar 2018	-		0.500	0.000	3.486	-
Subtotal			0.606	1.404		0.976		0.500		-		0.500	0.000	3.486	-
Management Services (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		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 Support	Various	Various : Various	1.000	2.316	Mar 2016	1.610	Mar 2017	0.000		-		0.000	0.000	4.926	-

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy												Date: May 2017			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604800M I (U)Joint Strike Fighter (JSF) - EMD				Project (Number/Name) 3350 I F-35B Sustainment/Capability Enhancements					
Management Services (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		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	4.926	-
			Prior Years	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Subtotals			136.307	184.378		108.761		61.270		-		61.270	4.995	495.711	-
Joint Strike Fighter 0604800F			-	78.901		46.962		37.202		-		37.202			-
International Partner			-	38.992		13.031		6.881		-		6.881			-
Joint Strike Fighter 0604800N 3352			-	35.666		24.420		5.787		-		5.787			-
Project Cost Totals			136.307	30.819		24.348		11.400		-		11.400	4.995	495.711	-
Remarks															
NOTE: Prior Years reflect \$75.534M USAF/\$32.852M USN/\$27.921M USMC/\$0.000M International/Total \$136.307M FY 2016 reflects \$78.901M USAF/\$35.666M USN/\$30.819M USMC/\$38.992M International/Total \$184.378M 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 \$ 61.270M															
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															

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 Navy												Date: May 2017																													
Appropriation/Budget Activity 1319 / 5												R-1 Program Element (Number/Name) PE 0604800M / (U)Joint Strike Fighter (JSF) - EMD								Project (Number/Name) 3350 / F-35B Sustainment/Capability Enhancements																					
Proj 3350												FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022					
												1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q		
D&S																																									
												SOUv2																													
																												</													

2018OSD - 0604800M - 3350

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Exhibit R-4A, RDT&E Schedule Details: FY 2018 Navy			Date: May 2017
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604800M / (U)Joint Strike Fighter (JSF) - EMD	Project (Number/Name) 3350 / F-35B Sustainment/Capability Enhancements	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3350				
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