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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604800M / (U) <i>Joint Strike Fighter (JSF) - EMD</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	46,068.873	487.939	537.901	531.426	-	531.426	99.841	9.649	5.842	3.858	0.000	47,745.329
2262: <i>Joint Strike Fighter EMD STOVL</i>	46,010.955	476.350	505.949	507.078	-	507.078	88.414	9.649	5.842	3.858	0.000	47,608.095
3350: <i>F-35B Sustainment/ Capability Enhancements</i>	57.918	11.589	31.952	24.348	-	24.348	11.427	0.000	0.000	0.000	0.000	137.234

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. FY2016 F-35 Block 4 activity supports development of Follow-on Development Increment 1 Capability Development Document (CDD). Follow-on Development will provide capability enhancements, required systems upgrades and cost improvements through an incremental acquisition approach.

The United Kingdom, other International Partner nations, and Foreign Military Sales customers are also participants in the JSF program. The program shown here reflects USN, USMC, USAF, and International Partner funding.

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, 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

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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.

B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	499.048	537.901	398.976	-	398.976
Current President's Budget	487.939	537.901	531.426	-	531.426
Total Adjustments	-11.109	0.000	132.450	-	132.450
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-11.108	0.000			
• Program Adjustments	0.000	0.000	131.000	-	131.000
• Rate/Misc Adjustments	-0.001	0.000	1.450	-	1.450

Change Summary Explanation

FY2017 Increase: +\$106.600M was for the modification of F-35B operational test aircraft. +\$24.400M was for Deployability & Suitability Enhancements.

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy										Date: February 2016		
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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
2262: Joint Strike Fighter EMD STOVL	46,010.955	476.350	505.949	507.078	-	507.078	88.414	9.649	5.842	3.858	0.000	47,608.095
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

Total cost including United States Navy (USN), United States Marine Corps (USMC), International partner contributions and United States Air Force (USAF) funding are: FY15 \$1,496.239M, FY16 \$1,506.200M, and FY17 \$1,436.880M 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 Carrier Variant 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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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.

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- FY13: 1 F-35C flight test article

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p>Title: System Development and Demonstration (SDD)</p> <p align="right">Articles:</p> <p>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.</p> <p>FY 2015 Accomplishments: 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.</p> <p>FY 2016 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 including modifications to Operational Testing. Activity aligned to IMS in accordance with variant IOC.</p> <p>FY 2017 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 Integrated Master Schedule (IMS) in accordance with variant Initial Operational Capability (IOC).</p> <p>FY 2017 OCO Plans: N/A</p>	798.385	766.918	988.704	0.000	988.704
	-	-	-	-	-
Title: F135 Propulsion System	200.220	174.733	55.381	0.000	55.381

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p align="right">Articles:</p> <p>Description: SDD execution of the F135 Propulsion System (Pratt & Whitney) including International Commonality Effort; includes testing, autonomic logistics, integration & performing technology maturation efforts.</p> <p>FY 2015 Accomplishments: 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.</p> <p>FY 2016 Plans: Continue SDD execution of the F135 Propulsion System with Pratt & Whitney that includes engine testing, autonomic logistics, integration and performing technology maturation efforts.</p> <p>FY 2017 Base Plans: Continue SDD execution of the F135 Propulsion System with Pratt & Whitney that includes engine testing, autonomic logistics, integration and performing technology maturation efforts.</p> <p>FY 2017 OCO Plans: N/A</p>	-	-	-	-	-
<p>Title: Systems Engineering (SE)</p> <p align="right">Articles:</p> <p>Description: SDD SE including systems operations requirements analysis, program integration, requirements integration, and interoperability support.</p> <p>FY 2015 Accomplishments: Continue SDD SE, including systems operations requirements analysis, program integration, requirements integration, and interoperability support.</p> <p>FY 2016 Plans: Continue SDD SE, including systems operations requirements analysis, program integration, requirements integration, and interoperability support.</p> <p>FY 2017 Base Plans: Continue SDD SE, including systems operations requirements analysis, program integration, requirements</p>	27.628	25.383	10.198	0.000	10.198
	-	-	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)						
		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
integration, and interoperability						
FY 2017 OCO Plans: N/A						
Title: Development Test and Evaluation (DT&E)		303.555	390.040	301.176	0.000	301.176
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 2015 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 2016 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 2017 Base Plans: Continue execution of government DT&E and OT activities in support of test aircraft. Continue flight sciences testing of F-35A, F-35B, and F-35C 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 OCO Plans: N/A						
Title: Development Support		130.710	116.360	50.415	0.000	50.415
Articles:		-	-	-	-	-
Description: SDD Support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities.						
FY 2015 Accomplishments:						

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
	Joint Strike Fighter 0604800F	534.344	515.492	403.506	-
International Partner	15.000	17.000	22.000	-	22.000
Navy Subtotals	476.350	505.949	507.078	0.000	507.078

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

Line Item	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
• RDT&E/0604800F: <i>F-35A Joint Strike Fighter</i>	534.344	515.492	403.506	-	403.506	113.567	5.327	5.392	5.497	0.000	22,091.967
• International: <i>International Partner (SDD)</i>	15.000	17.000	22.000	-	22.000	27.450	0.000	0.000	0.000	0.000	5,000.750
• APAF/0207142F BP10: <i>F-35A USAF CTOL</i>	3,542.842	5,259.812	4,401.894	-	4,401.894	4,988.701	4,712.256	4,838.591	5,801.997	138,652.940	190,239.288
• RDT&E/0604800N/2261: <i>F-35C Joint Strike Fighter (JSF) - EMD</i>	470.545	467.759	504.296	-	504.296	43.816	0.000	0.000	0.000	0.000	47,497.371
• APN/0605B: <i>F-35B Joint Strike Fighter STOVL Spares</i>	64.194	111.569	123.252	-	123.252	26.159	88.434	160.150	140.989	Continuing	Continuing
• APN/0605C: <i>F-35C Joint Strike Fighter CV Spares</i>	28.386	59.914	26.076	-	26.076	76.886	41.847	52.858	303.608	Continuing	Continuing
• MILCON 0207142F: <i>USAF MILCON Operations</i>	66.700	132.850	305.700	-	305.700	80.000	27.500	0.000	0.000	1,312.100	2,511.350
• APAF/0207142F BP11: <i>USAF Modification Funding</i>	187.646	70.167	175.811	-	175.811	385.931	237.349	232.017	237.273	Continuing	Continuing
• FOD/0207142F: <i>USAF Follow-on Development (FoD)</i>	23.660	48.954	127.302	-	127.302	321.658	340.950	339.209	345.223	Continuing	Continuing
• 0207142F/USAF BP16: <i>USAF Joint Strike Fighter Initial Spares</i>	231.847	229.582	267.792	-	267.792	315.478	353.602	354.622	355.591	10,311.851	13,420.134
• USAF/OPAF 0207142F: <i>USAF OPAF</i>	4.463	3.858	2.333	-	2.333	2.374	2.415	0.000	0.000	Continuing	Continuing
• APN/0592: <i>F-35B STOVL Series</i>	215.819	204.464	34.928	-	34.928	158.277	89.352	64.963	79.077	Continuing	Continuing
• APN/0593: <i>F-35C CV Series</i>	20.502	48.527	26.004	-	26.004	49.848	20.721	12.929	13.192	Continuing	Continuing

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

Line Item	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
• RDT&E/0604800N/3352: <i>F-35C Sustainment/ Capability Enhancements</i>	16.433	36.977	24.420	-	24.420	11.802	0.000	0.000	0.000	0.000	147.550
• USAF SDD BP 653832: <i>JSF Deployability and Suitability Enhancements</i>	32.593	71.461	46.962	-	46.962	23.795	0.000	0.000	0.000	0.000	199.978
• PAF/0207142F BP10: <i>F-35A JSF CTOL Advance Procurement</i>	418.880	460.260	404.500	-	404.500	391.263	406.750	424.230	424.230	16,880.950	21,689.492
• DCA/0207142F 676011: <i>Dual Capable Aircraft (DCA)</i>	15.615	4.967	25.743	-	25.743	27.731	37.637	49.554	50.433	Continuing	Continuing
• APN/0147: <i>F-35C Joint Strike Fighter CV</i>	927.568	1,062.542	939.280	-	939.280	1,031.960	1,766.145	2,333.863	2,974.122	30,649.190	54,091.144
• APN/0152C: <i>F-35B Joint Strike Fighter STOVL AP</i>	143.885	203.060	233.648	-	233.648	370.472	227.562	231.003	220.000	2,452.774	5,025.035
• APN/0152: <i>F-35B Joint Strike Fighter STOVL</i>	1,287.605	2,291.599	2,240.828	-	2,240.828	2,853.972	2,758.152	2,787.591	2,868.001	22,845.941	44,735.221
• DoN MILCON: <i>DoN JSF MILCON</i>	131.904	94.420	230.900	-	230.900	64.660	121.990	119.800	0.000	Continuing	Continuing
• International 2: <i>Intl Production/ Reprogramming Lab</i>	3,350.860	4,211.698	5,377.274	-	5,377.274	7,420.782	7,893.177	9,050.299	8,092.207	Continuing	Continuing
• OPN/4268: <i>Logistics Information System (ALIS)</i>	47.105	49.773	39.099	-	39.099	35.574	40.367	60.537	60.928	Continuing	Continuing
• MC/0207597F: <i>USAF MILCON Training</i>	0.000	65.400	20.000	-	20.000	21.000	34.000	15.900	0.000	0.000	156.300
• International 3: <i>International R&D FoD/D&S</i>	21.086	79.318	128.965	-	128.965	157.602	169.315	171.636	68.599	Continuing	Continuing
• OPN 902010 S8JC: <i>Aviation Support Equipment (ALIS)</i>	0.730	2.946	0.881	-	0.881	2.297	2.321	0.139	1.977	Continuing	Continuing
• USAF O&M: <i>USAF O&M</i>	217.556	302.952	360.107	-	360.107	452.906	555.687	858.671	0.000	Continuing	Continuing
• USAF MILCON 0502635F: <i>USAF MILCON Air National Guard</i>	0.000	0.000	15.100	-	15.100	0.000	0.000	0.000	0.000	0.000	15.100
• USN 3194: <i>USN USRL</i>	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	147.205

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

Line Item	FY 2015	FY 2016	FY 2017	FY 2017	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Cost To	
			Base	OCO	Total					Complete	Total Cost
• USN 2936: F-35C Follow-on Development (CV)	10.302	21.200	63.387	-	63.387	133.686	144.003	147.646	150.902	Continuing	Continuing
• USN C260: F-35C RDTE FoD CDD	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	1.500
• International Unique: Intl Unique (SDD/PSFD)	81.681	39.852	39.608	-	39.608	11.474	22.812	29.409	5.357	0.000	969.741

Remarks

D. Acquisition Strategy

The SDD program consists of a cost-reimbursement contract awarded to Lockheed Martin Aeronautics Company to develop the F-35 Air System, consisting of three aircraft variants and its associated logistics support system, for the U.S. Services and international participants. Similarly, a cost-reimbursement contract was awarded to Pratt & Whitney to develop the F135 propulsion system. Ground and flight testing will be conducted during development to accomplish validation and verification, with the extensive use of modeling and simulation to offset the risk of this large, complex, and concurrent lifecycle program. A comprehensive logistics support environment, including an integrated training system for aircrew, maintenance, and support personnel, is also being developed.

On 25 April 2011, the Department of Defense terminated the development of the General Electric Rolls-Royce Fighter Engine Team F136 propulsion system.

The F-35 Program has made international involvement a key element of the acquisition strategy. This includes international partnership in the development, production, and sustainment phases of the lifecycle. Additional international participation includes Foreign Military Sales arrangements.

In Fiscal Year 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. 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.

E. Performance Metrics

The following are the key performance parameters from the F-35 Selected Acquisition Report:

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Performance Metrics reflect Key Program Performance data.

Combat Radius

F-35A Meets/Exceeds Tripwire Requirement

F-35B Meets/Exceeds Tripwire Requirement

F-35C Meets/Exceeds Tripwire Requirement

F-35B Performance

Flat Deck (High-High-High Profile Fuel) Meets Requirement In Tripwire Band

Ski Jump (High-Medium-Medium-High Profile Fuel) Meets Requirement In Tripwire Band

Vertical Landing Bring Back Meets Requirement In Tripwire Band

F-35C Recovery

Maximum Approach Speed Meets Requirement In Tripwire Band

Interoperability

Net Ready Criteria- Meets Requirement In Tripwire Band

Radio Frequency Signature Meets/Exceeds Tripwire Requirement

Force Protection

CB Pilot Protection (New Key Performance Parameters Per CN3) - Meets/Exceeds Tripwire Requirement

Mission Reliability

F-35A Meets/Exceeds Tripwire Requirement

F-35B United States Marine Corps (USMC) Meets/Exceeds Tripwire Requirement

F-35B United Kingdom (UK) Meets/Exceeds Tripwire Requirement

F-35C Exceeds Operational Requirements Document Objective

Sortie Generation Rate

F-35A Meets/Exceeds Tripwire Requirement

F-35B USMC Meets/Exceeds Tripwire Requirement

F-35B UK Meets/Exceeds Tripwire Requirement

F-35C Meets/Exceeds Tripwire Requirement

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<p>Logistics Footprints 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: PB 2017 Navy **Date:** February 2016

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Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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/CPAF	Lockheed Martin : Ft. Worth, TX	29,697.347	679.854	Dec 2014	577.567	Dec 2015	866.126	Dec 2016	-		866.126	124.343	31,945.237	31,945.237
Primary Hardware Development - Award Fee	C/CPAF	Lockheed Martin : Ft. Worth, TX	1,650.792	54.705	Dec 2014	70.093	Dec 2015	97.632	Dec 2016	-		97.632	20.000	1,893.222	1,893.222
Primary Hardware Development - ALIS	C/CPAF	Lockheed Martin : Ft. Worth, TX	460.979	35.459	Dec 2014	32.512	Dec 2015	31.006	Dec 2016	-		31.006	0.000	559.956	559.956
Primary Hardware Development -D-0005	C/CPFF	Lockheed Martin : Ft. Worth, TX	3.289	0.509	Dec 2014	0.000		0.000		-		0.000	0.000	3.798	3.798
Primary Hardware Development - LRIP 0003	C/CPFF	Lockheed Martin : Ft. Worth, TX	0.000	1.027	Dec 2014	0.000		0.000		-		0.000	0.000	1.027	1.027
Primary Hardware Development -BOA	C/CPFF	Lockheed Martin : Ft. Worth, TX	0.000	0.337	Dec 2014	0.000		0.000		-		0.000	0.000	0.337	0.337
Primary Hardware Development - 0020	C/CPFF	Lockheed Martin : Ft. Worth, TX	0.022	46.908	Dec 2014	119.258	Dec 2015	24.946	Dec 2016	-		24.946	15.273	206.407	206.407
Primary Hardware Development	C/CPFF	Lockheed Martin : Ft. Worth, TX	0.000	15.045	Dec 2014	0.000		0.000		-		0.000	0.000	15.045	15.045
Primary Hardware Development - SDD	C/CPAF	Pratt and Whitney : Hartford, CT	6,999.951	180.329	Dec 2014	154.665	Dec 2015	55.381	Dec 2016	-		55.381	0.000	7,390.326	7,390.326
Primary Hardware Development - Award Fee	C/CPAF	Pratt and Whitney : Hartford, CT	653.919	16.294	Dec 2014	20.068	Dec 2015	0.000		-		0.000	0.000	690.281	690.281
Primary Hardware Development - D-0022	C/CPAF	Pratt and Whitney : Hartford, CT	14.115	0.282	Dec 2014	0.254	Dec 2015	0.000		-		0.000	0.000	14.651	14.651
Primary Hardware Development - C-0026	C/CPFF	Pratt and Whitney : Hartford, CT	0.000	3.597	Dec 2014	0.000		0.000		-		0.000	0.000	3.597	3.597
Systems Engineering	Various	Various : Various	396.332	22.984	Nov 2014	29.919	Nov 2015	8.490	Nov 2016	-		8.490	7.063	464.788	464.788
Prior Year No Longer Funded in FYDP	Various	Various : Various	2,871.004	0.000		0.000		0.000		-		0.000	0.000	2,871.004	2,871.004
Subtotal			42,747.750	1,057.330		1,004.336		1,083.581		-		1,083.581	166.679	46,059.676	46,059.676

Remarks
 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%.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

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
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Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Development Support - AFFTC/Eglin	Various	Eglin AFB : Eglin, FL	121.714	12.231	Nov 2014	6.446	Nov 2015	3.347	Nov 2016	-		3.347	0.064	143.802	-
Development Support - AFLCMC/AFRL	Various	AFLCMC/AFRL : Various	62.865	2.247	Nov 2014	8.325	Nov 2015	0.897	Nov 2016	-		0.897	0.020	74.354	-
Engine Test and Evaluation Support - AEDC/Fuel	Various	Various : Various	170.046	22.242	Nov 2014	17.701	Nov 2015	0.075	Nov 2016	-		0.075	0.000	210.064	-
Development Support - Miscellaneous	Various	Various : Various	97.242	14.946	Nov 2014	18.387	Nov 2015	8.692	Nov 2016	-		8.692	1.346	140.613	-
Software Development Support	Various	NAWC WD : China Lake, CA	137.888	15.614	Nov 2014	12.305	Nov 2015	9.436	Nov 2016	-		9.436	0.000	175.243	-
Development Support	Various	NAWC AD : Patuxent, MD	368.385	41.758	Nov 2014	31.299	Nov 2015	19.998	Nov 2016	-		19.998	0.235	461.675	-
Prior Year No Longer Funded in FYDP	Various	Various : Various	77.076	0.000		0.000		0.000		-		0.000	0.000	77.076	-
Subtotal			1,035.216	109.038		94.463		42.445		-		42.445	1.665	1,282.827	-

Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental Test and Evaluation	Various	NAWC WD : China Lake, CA	37.253	1.923	Nov 2014	2.173	Nov 2015	2.173	Nov 2016	-		2.173	0.000	43.522	-
Developmental Test and Evaluation	Various	NAWC AD : Patuxent River, MD	581.256	83.797	Nov 2014	120.284	Nov 2015	65.847	Nov 2016	-		65.847	0.000	851.184	-
Developmental Test and Evaluation	Various	Edwards AFB : Edwards AFB, CA	548.835	69.774	Nov 2014	71.235	Nov 2015	53.426	Nov 2016	-		53.426	0.000	743.270	-
Developmental Test and Evaluation - Other (including Classified PIDs)	Various	Various : Various	158.522	53.548	Nov 2014	56.526	Nov 2015	18.132	Nov 2016	-		18.132	2.500	289.228	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

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
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Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
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 AFB, NM/Eglin AFB, FL	156.615	23.079	Nov 2014	32.243	Nov 2015	78.792	Nov 2016	-		78.792	95.940	386.669	-
Operational Test and Evaluation Support	Various	OT-JITC/OPTEC : Various	16.329	20.350	Nov 2014	32.966	Nov 2015	35.554	Nov 2016	-		35.554	29.461	134.660	-
Operational Test and Evaluation Support	Various	OT-CHLK : China Lake, CA	0.000	0.000		10.874	Nov 2015	0.000		-		0.000	0.000	10.874	-
Subtotal			1,526.639	252.471		326.301		253.924		-		253.924	127.901	2,487.236	-

Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Security Mantech	C/FP	Mantech : Arlington, VA	74.899	8.300	Dec 2014	8.400	Dec 2015	0.000	Dec 2016	-		0.000	0.000	91.599	91.599
Program Engineering Support	C/CPFF	First Principles : Arlington, VA	8.759	1.900	Dec 2014	0.000		0.000		-		0.000	0.000	10.659	10.659
AFLCMC Civilian Pay	Various	AFLCMC CIVPAY : Wright Patterson, AFB, OH	62.834	32.310	Oct 2014	32.500	Oct 2015	12.225	Oct 2016	-		12.225	0.000	139.869	-
Program Management Support	C/CPFF	Allutiiq : Arlington, VA	1.417	0.518	Dec 2014	0.536	Dec 2015	0.552	Dec 2016	-		0.552	1.153	4.176	4.176
Facilities BOSS	WR	Various : Various	17.751	8.356	Dec 2014	9.091	Dec 2015	7.736	Dec 2016	-		7.736	8.340	51.274	-
IT Support	Various	Various : Various	6.702	2.677	Dec 2014	4.743	Dec 2015	6.050	Dec 2016	-		6.050	1.401	21.573	-
Travel	Various	Various : Various	18.834	2.015	Oct 2014	1.831	Oct 2015	1.948	Oct 2016	-		1.948	1.403	26.031	-
Program Management Support	Various	Jacobs BOSS : Arlington, VA	6.208	19.695	Dec 2014	20.489	Nov 2015	25.000	Nov 2016	-		25.000	0.000	71.392	-
OPS - Cost/FM/EV ACT-I	Various	OPS - Cost/FM/EV : Arlington, VA	2.000	1.494	Dec 2014	3.375	Nov 2015	3.284	Nov 2016	-		3.284	0.000	10.153	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

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
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Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Management Support	Various	Andrews AFB : Camp Springs, MD	0.135	0.135	Dec 2014	0.135	Nov 2015	0.135	Nov 2016	-		0.135	0.270	0.810	-
Prior Year No Longer Funded in FYDP	Various	Various : Various	501.811	0.000		0.000		0.000		-		0.000	0.000	501.811	-
Subtotal			701.350	77.400		81.100		56.930		-		56.930	12.567	929.347	-

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

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Subtotals	46,010.955	1,496.239	1,506.200	1,436.880	-	1,436.880	308.812	50,759.086	-
Joint Strike Fighter 0604800N	-	470.545	467.759	504.296	-	504.296			-
Joint Strike Fighter 0604800F	-	534.344	515.492	403.506	-	403.506			-
International Partner	-	15.000	17.000	22.000	-	22.000			-
Project Cost Totals	46,010.955	476.350	505.949	507.078	-	507.078	308.812	50,759.086	-

Remarks
NOTE 1: Prior Years reflect \$20,508.842M USAF/\$18,387.781M USN/\$2,195.032M USMC /\$4,919.300M International/Total \$46,010.955M
FY 2015 reflects \$534.344M USAF/\$470.545M USN/\$476.350M USMC/\$15.000M International/Total \$1,496.239M
FY 2016 reflects \$515.492M USAF/\$467.759M USN/\$505.949M USMC/\$17.000M International/Total \$1,506.200M
FY 2017 reflects \$403.506M USAF/\$504.296M USN/\$507.078M USMC/\$22.000M International/Total \$1,436.880M

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: PB 2017 Navy **Date:** February 2016

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
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JSF Variants - CV, STOVL & CTOL	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021							
	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-35B IOC ▲				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 28, USN 4, USMC 6)				LRIP 10 (AF 47, USN 6, USMC 15)				LRIP 11 (AF 43, USN 4, USMC 16)				LRIP 12 (AF 44, USN 6, USMC 20)				LRIP 13 (AF 48, USN 12, USMC 20)				LRIP 14 (AF 48, USN 18, USMC 20)				LRIP 15 (AF 60, USN 24, USMC 21)			

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy		Date: February 2016
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-35B Initial Operational Capability	4	2015	4	2015
Acquisition Milestones: F-35C Initial Operational Capability	4	2018	4	2018
Test & Evaluation: Test and Evaluation: Block 3I DT&E/Cert	1	2015	4	2015
Test & Evaluation: Test and Evaluation: Block 3F DT&E/Cert	1	2015	4	2017
Test & Evaluation: Test and Evaluation: Initial Operational Test and Evaluation (IOT&E)	2	2015	4	2018
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-15	4	2015	4	2015
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	2015	4	2017

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy **Date:** February 2016

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
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 9 Full Funding / Production / Delivery	2	2016	3	2018
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 10 Full Funding / Production / Delivery	2	2016	4	2019
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 11 Full Funding / Production / Delivery	2	2017	2	2020
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 12 Full Funding / Production / Delivery	2	2018	2	2021
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 13 Full Funding / Production / Delivery	2	2019	4	2021
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 14 Full Funding / Production / Delivery	2	2020	4	2021
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 15 Full Funding / Production / Delivery	2	2021	4	2021

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy										Date: February 2016		
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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
3350: F-35B Sustainment/ Capability Enhancements	57.918	11.589	31.952	24.348	-	24.348	11.427	0.000	0.000	0.000	0.000	137.234
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

Total cost including United States Navy (USN), United States Marine Corps (USMC), United States Air Force (USAF) and International Partner contributions funding is: FY15 \$66.704M, FY16 \$189.726M and FY17 \$115.140M

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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: Sustainment and Capability Enhancements	15.590	118.070	64.064	0.000	64.064
Articles:	-	-	-	-	-
Description: Apply disciplined systems engineering, refinement of requirements, develop and acquire suitability and maintainability of the air system such as decentralized maintenance capabilities, LO maintenance					

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p>enhancements, security architecture updates, redesign of obsolete items and integrated training simulators.</p> <p>FY 2015 Accomplishments: Continue to conduct systems engineering, technical maturation, integration and test planning for suitability and deployability enhancements.</p> <p>FY 2016 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.</p> <p>FY 2017 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.</p> <p>FY 2017 OCO Plans: N/A</p>					
<p>Title: Development Support</p> <p align="right">Articles:</p> <p>Description: SDD support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities.</p> <p>FY 2015 Accomplishments: 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.</p> <p>FY 2016 Plans:</p>	20.650	7.909	3.556	0.000	3.556
	-	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy				Date: February 2016																			
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)																							
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 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 2017 OCO Plans: N/A																							
Title: Development Test and Evaluation																							
Articles:																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%;">FY 2015</th> <th style="width: 10%;">FY 2016</th> <th style="width: 10%;">FY 2017 Base</th> <th style="width: 10%;">FY 2017 OCO</th> <th style="width: 10%;">FY 2017 Total</th> </tr> </thead> <tbody> <tr> <td></td> <td align="center">0.636</td> <td align="center">1.841</td> <td align="center">1.440</td> <td align="center">0.000</td> <td align="center">1.440</td> </tr> <tr> <td></td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> </tr> </tbody> </table>							FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total		0.636	1.841	1.440	0.000	1.440		-	-	-	-	-
	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total																		
	0.636	1.841	1.440	0.000	1.440																		
	-	-	-	-	-																		
Description: Verification and testing for deployability and suitability enhancements.																							
FY 2015 Accomplishments: Continue to initiate government test and evaluation of capability enhancements for Deployable Autonomic Logistics Information system, and LO maintenance enhancements.																							
FY 2016 Plans: Continue to initiate government test and evaluation of capability enhancements for Deployable Autonomic Logistics Information system, and LO maintenance enhancements.																							
FY 2017 Base Plans: Continue to initiate government test and evaluation of capability enhancements for Deployable Autonomic Logistics Information System, and LO maintenance enhancements.																							
FY 2017 OCO Plans: N/A																							
Title: Autonomic Logistics Information System																							
Articles:																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%;">FY 2015</th> <th style="width: 10%;">FY 2016</th> <th style="width: 10%;">FY 2017 Base</th> <th style="width: 10%;">FY 2017 OCO</th> <th style="width: 10%;">FY 2017 Total</th> </tr> </thead> <tbody> <tr> <td></td> <td align="center">29.828</td> <td align="center">61.906</td> <td align="center">46.080</td> <td align="center">0.000</td> <td align="center">46.080</td> </tr> <tr> <td></td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> </tr> </tbody> </table>							FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total		29.828	61.906	46.080	0.000	46.080		-	-	-	-	-
	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total																		
	29.828	61.906	46.080	0.000	46.080																		
	-	-	-	-	-																		
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.																							

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<i>FY 2015 Accomplishments:</i> 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.					
<i>FY 2016 Plans:</i> 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.					
<i>FY 2017 Base Plans:</i> 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.					
<i>FY 2017 OCO Plans:</i> N/A					
Accomplishments/Planned Programs Subtotals	66.704	189.726	115.140	0.000	115.140
Joint Strike Fighter 0604800F	32.593	71.461	46.962	-	46.962
Joint Strike Fighter 0604800N	16.433	36.977	24.420	-	24.420
International Partner	6.089	49.336	19.410	-	19.410
Navy Subtotals	11.589	31.952	24.348	0.000	24.348

C. Other Program Funding Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
• RDT&E/0604800F: <i>F-35A Joint Strike Fighter</i>	534.344	515.492	403.506	-	403.506	113.567	5.327	5.392	5.497	0.000	22,091.627
• International: <i>International Partner (SDD)</i>	15.000	17.000	22.000	-	22.000	27.450	0.000	0.000	0.000	0.000	5,000.750
• APAF/0207142F BP10: <i>F-35A USAF CTOL</i>	3,542.842	5,259.812	4,401.894	-	4,401.894	4,988.701	4,712.256	4,838.591	5,801.997	138,652.940	190,239.288
• RDT&E/0604800N/2261: <i>F-35C Joint Strike Fighter (JSF) - EMD</i>	470.545	467.759	504.296	-	504.296	43.816	0.000	0.000	0.000	0.000	47,497.371
• APN/0605B: <i>F-35B Joint Strike Fighter STOVL Spares</i>	64.194	111.569	82.418	-	82.418	30.016	98.676	168.451	97.667	1,518.093	2,497.913

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy										Date: February 2016	
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 2015	FY 2016	FY 2017	FY 2017	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Cost To	
			Base	OCO	Total					Complete	Total Cost
• APN/0605C: F-35C Joint Strike Fighter CV Spares	28.200	59.914	23.995	-	23.995	26.778	32.688	47.390	96.000	Continuing	Continuing
• MILCON 0207142F: USAF MILCON Operations	66.700	132.850	305.700	-	305.700	80.000	27.500	0.000	0.000	1,312.100	2,511.350
• APAF/0207142F BP11: USAF Modification Funding	187.646	70.167	175.811	-	175.811	385.931	237.349	232.017	237.273	Continuing	Continuing
• FOD/0207142F: USAF Follow-on Development (FoD)	23.660	48.954	127.302	-	127.302	321.658	340.950	339.209	345.223	Continuing	Continuing
• 0207142F/USAF BP16: USAF Joint Strike Fighter Initial Spares	231.847	229.582	267.792	-	267.792	315.478	353.602	354.622	355.591	10,311.851	13,420.134
• USAF/OPAF 0207142F: USAF OPAF	4.463	3.858	2.333	-	2.333	2.374	2.415	0.000	0.000	Continuing	Continuing
• APN/0592: F-35B STOVL Series	215.819	204.464	34.928	-	34.928	158.277	89.352	64.963	79.077	Continuing	Continuing
• APN/0593: F-35C CV Series	20.502	48.527	26.004	-	26.004	49.848	20.721	12.929	13.192	Continuing	Continuing
• RDT&E/0604800N/3352: F-35C Sustainment/Capability Enhancements	16.433	36.977	24.420	-	24.420	11.802	0.000	0.000	0.000	0.000	147.550
• USAF SDD BP 653832: Deployability and Suitability Enhancements	32.593	71.461	46.962	-	46.962	23.795	0.000	0.000	0.000	0.000	199.978
• PAF/0207142F BP10: F-35A JSF CTOL Advance Procurement	418.880	460.260	404.500	-	404.500	391.263	406.750	424.230	424.230	16,880.950	21,689.492
• DCA/0207142F 676011: Dual Capable Aircraft (DCA)	15.615	4.967	25.743	-	25.743	27.731	37.637	49.554	50.433	Continuing	Continuing
• APN/0147: F-35C Joint Strike Fighter CV	927.568	1,062.542	939.280	-	939.280	1,031.960	1,766.145	2,333.863	2,974.122	30,649.190	54,091.144
• APN/0152C: F-35B Joint Strike Fighter STOVL AP	143.885	203.060	233.648	-	233.648	370.472	227.562	231.003	220.000	2,452.774	5,025.035
• APN/0152: F-35B Joint Strike Fighter STOVL	1,287.605	2,291.599	2,240.828	-	2,240.828	2,853.972	2,758.152	2,787.591	2,868.001	22,845.941	44,735.221
• DoN MILCON: DoN JSF MILCON	60.200	72.460	11.800	-	11.800	0.000	0.000	0.000	0.000	0.000	144.460

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy										Date: February 2016	
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 2015	FY 2016	FY 2017	FY 2017	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Cost To	
			Base	OCO	Total					Complete	Total Cost
• International 2: <i>International Production/Reprogramming Lab</i>	3,350.860	4,211.698	5,377.274	-	5,377.274	7,420.782	7,893.177	9,050.299	8,092.207	Continuing	Continuing
• OPN/4268: <i>Logistics Information System (ALIS)</i>	47.105	49.773	39.099	-	39.099	35.574	40.367	60.537	60.928	Continuing	Continuing
• MC/0207597F: <i>USAF MILCON Training</i>	0.000	65.400	20.000	-	20.000	21.000	34.000	15.900	0.000	0.000	156.300
• International 3: <i>International R&D FoD/D&S</i>	21.086	79.318	128.965	-	128.965	157.602	169.315	171.636	68.599	Continuing	Continuing
• OPN 902010 S8JC: <i>Aviation Support Equipment (ALIS)</i>	0.730	2.946	0.881	-	0.881	2.297	2.321	0.139	1.977	Continuing	Continuing
• USAF O&M: <i>USAF O&M</i>	217.556	302.952	360.107	-	360.107	452.906	555.687	858.671	0.000	Continuing	Continuing
• USAF MILCON 0502635F: <i>USAF MILCON Air National Guard</i>	0.000	0.000	15.100	-	15.100	0.000	0.000	0.000	0.000	0.000	15.100
• USN 3194: <i>USN USRL</i>	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	147.205
• USN 2936: <i>F-35C Follow-on Development (CV)</i>	10.302	21.200	63.387	-	63.387	133.686	144.003	147.646	150.902	Continuing	Continuing
• USN C260: <i>F-35C RDT&E FoD CDD</i>	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	1.500
• International Unique: <i>Intl Unique (SDD/PSFD)</i>	81.681	39.852	39.608	-	39.608	11.474	22.812	29.409	5.357	0.000	969.741

Remarks

D. Acquisition Strategy

Implement JSF 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.

Combat Radius

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
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 Meets/Exceeds Tripwire Requirement F-35C Meets/Exceeds Tripwire Requirement</p> <p>F-35B Performance Flat Deck (High-High-High Profile Fuel) Meets Requirement In Tripwire Band Ski Jump (High-Medium-Medium-High Profile Fuel) Meets Requirement In Tripwire Band Vertical Landing Bring Back Meets Requirement In Tripwire Band</p> <p>F-35C Recovery Maximum Approach Speed Meets Requirement In Tripwire Band</p> <p>Interoperability Net Ready Criteria- Meets Requirement In Tripwire Band</p> <p>Radio Frequency Signature Meets/Exceeds Tripwire Requirement</p> <p>Force Protection CB Pilot Protection (New Key Performance Parameters Per CN3) - Meets/Exceeds Tripwire Requirement</p> <p>Mission Reliability F-35A Meets/Exceeds Tripwire Requirement F-35B United States Marine Corps (USMC) Meets/Exceeds Tripwire Requirement F-35B United Kingdom (UK) Meets/Exceeds Tripwire Requirement F-35C Exceeds Operational Requirements Document Objective</p> <p>Sortie Generation Rate F-35A Meets/Exceeds Tripwire Requirement F-35B USMC Meets/Exceeds Tripwire Requirement F-35B UK Meets/Exceeds Tripwire Requirement F-35C Meets/Exceeds Tripwire Requirement</p> <p>Logistics Footprints F-35A Meets/Exceeds Tripwire Requirement F-35B USMC Meets/Exceeds Tripwire Requirement</p>		

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
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>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: PB 2017 Navy **Date:** February 2016

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
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Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Primary Hardware Development - 3002 SDD	C/CPFF	Lockheed Martin : Fort Worth, TX	0.000	0.000		41.330	Mar 2016	35.844	Mar 2017	-		35.844	21.213	98.387	98.387
Primary Hardware Development - 3002 ALIS	C/CPFF	Lockheed Martin : Fort Worth, TX	46.210	29.828	Mar 2015	61.906	Mar 2016	46.080	Mar 2017	-		46.080	33.740	217.764	217.764
Primary Hardware Development -14-C-002 Band 2/5	C/CPFF	Lockheed Martin : Fort Worth, TX	0.000	15.590	Mar 2015	76.740	Mar 2016	28.220	Mar 2017	-		28.220	0.000	120.550	120.550
Subtotal			46.210	45.418		179.976		110.144		-		110.144	54.953	436.701	436.701

Remarks

Cumulative Award Fee earned for Lockheed Martin 0%.

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Development Support	Various	AFRLCMC : Eglin AFB	4.040	15.680	Mar 2015	2.910	Mar 2016	0.000		-		0.000	0.000	22.630	-
Development Support	Various	Various : Various	7.668	4.000	Mar 2015	3.120	Mar 2016	2.410	Mar 2017	-		2.410	0.000	17.198	-
Subtotal			11.708	19.680		6.030		2.410		-		2.410	0.000	39.828	-

Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental Test & Evaluation	WR	Various : Various	0.000	0.606	Jun 2015	1.404	Jun 2016	0.976	Jun 2017	-		0.976	0.000	2.986	-
Subtotal			0.000	0.606		1.404		0.976		-		0.976	0.000	2.986	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy **Date:** February 2016

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
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Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Support	Various	Various : Various	0.000	1.000	Dec 2014	2.316	Dec 2015	1.610	Dec 2016	-		1.610	0.000	4.926	-
Subtotal			0.000	1.000		2.316		1.610		-		1.610	0.000	4.926	-
Cost Category Subtotals			57.918	66.704		189.726		115.140		-		115.140	54.953	484.441	-
Joint Strike Fighter 0604800F			-	32.593		71.461		46.962		-		46.962			-
Joint Strike Fighter 0604800N			-	16.433		36.977		24.420		-		24.420			-
International Partner			-	6.089		49.336		19.410		-		19.410			-
Project Cost Totals			57.918	11.589		31.952		24.348		-		24.348	54.953	484.441	-

Remarks
 NOTE: Prior Years reflect \$25.167M USAF/\$16.332M USN/\$16.419M USMC/ Total \$57.918M

 FY 2015 reflects \$32.593M USAF/\$16.433M USN/\$11.589M USMC/\$6.089M International/Total \$66.704M

 FY 2016 reflects \$71.461M USAF/\$36.977M USN/\$31.952M USMC/\$49.336M International/Total \$189.726M

 FY 2017 reflects \$46.962M USAF/\$24.420M USN/\$24.348M USMC/\$19.410M International/Total \$115.140M

 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: PB 2017 Navy **Date:** February 2016

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
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Proj 3350	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021							
	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																											
									Band 2/5																							
									Security Architecture																							
									OMS																							
									DMT/DMO																							

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy		Date: February 2016
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3350				
D&S: Standard Operating Unit (SOUv2)	1	2015	1	2017
D&S: Band 2/5	3	2015	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	4	2018

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