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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Navy										Date: February 2015		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604800M I (U)Joint Strike Fighter (JSF) - EMD							
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	44,598.298	410.080	499.048	537.901	-	537.901	398.976	87.145	8.014	8.473	-	46,547.935
2262: Joint Strike Fighter EMD STOVL	44,598.298	394.248	487.068	505.949	-	505.949	398.976	87.145	8.014	8.473	-	46,488.171
3350: F-35B Sustainment/ Capability Enhancements	0.000	14.332	11.980	31.952	-	31.952	-	-	-	-	-	58.264
9999: Congressional Adds	0.000	1.500	-	-	-	-	-	-	-	-	-	1.500
Program MDAP/MAIS Code: 198												
A. Mission Description and Budget Item Justification												
<p>The F-35 Lightning II Fighter program is developing a family of highly common, affordable, next generation, multi-role aircraft to meet the needs of the USMC, USN, USAF and international partners. The three variants are the F-35A Conventional Takeoff and Landing (CTOL); F-35B Short Takeoff and Vertical Landing (STOVL); and the F-35C Carrier Variant (CV). Maximum commonality among the variants, consistent with National Disclosure Policy, will minimize life cycle costs. FY2016 continues development and testing of the F-35. As the initial capabilities are being delivered from the System Development and Demonstration (SDD) program, planning for Follow-on Development (FoD) continues. Capability requirements are being matured and FoD planning continues based upon the approved Fifth Generation Fighter Modernization Initial Capabilities Document (ICD), an approved Electronic Warfare ICD, and the results of an OSD Tiger Team Review. FY2016 F-35 FoD 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.</p> <p>Additionally, the F-35 JSF Operational Requirements Document (ORD) calls for the F-35A (CTOL) Variant Air Vehicle to have the capabilities and provisions for Dual Capable Aircraft (DCA) operations in the first post SDD block upgrade. DCA refers to the capability to carry and deliver conventional and non-conventional weapons. DCA operation for the F-35A is internal carriage of two B-61s. Due to extensive certification requirements, the DCA capability planning and design will begin in Block 4A and continue through testing and to extensive certification requirements, the DCA capability planning and design will begin in Block 4A and continue through testing and certification in Block 4B.</p> <p>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.</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 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 and USAF use.</p> <p>FY07: 1 CTOL flight test article</p>												

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FY08: 1 STOVL flight test article; 1 STOVL ground test article FY09: 1 STOVL flight test article; 2 CTOL ground test articles FY10: 6 flight test articles: 3 CTOL, 2 STOVL, 1 CV; 3 ground test articles: 1 STOVL, 2 CV FY11: 4 flight test articles: 1 CTOL, 1 STOVL, 2 CV FY13: 1 CV flight test article						
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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget		415.727	513.021	596.845	-	596.845
Current President's Budget		410.080	499.048	537.901	-	537.901
Total Adjustments		-5.647	-13.973	-58.944	-	-58.944
• Congressional General Reductions		-	-			
• Congressional Directed Reductions		-	-			
• Congressional Rescissions		-	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-	-13.973			
• Reprogrammings		-0.164	-			
• SBIR/STTR Transfer		-5.483	-			
• Rate/Misc Adjustments		-	-	-58.944	-	-58.944
Congressional Add Details (\$ in Millions, and Includes General Reductions)						
Project: 9999: Congressional Adds				FY 2014	FY 2015	
Congressional Add: JSF Block 4 - USN Cong				1.500	-	
Congressional Add: JSF Block 4 - USMC Cong				1.500	-	
Congressional Add Subtotals for Project: 9999				3.000	-	
Congressional Add Totals for all Projects				3.000	-	
Change Summary Explanation						
The FY 2016 funding request was reduced by \$15.042 million to account for the availability of prior year execution balances.						
Adjustments are funding realignments. In Fiscal Year 2015 Appropriations Act, FoD moved to separate Program Element.						

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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			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
2262: Joint Strike Fighter EMD STOVL	44,598.298	394.248	487.068	505.949	-	505.949	398.976	87.145	8.014	8.473	-	46,488.171
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: FY14 \$1,414.340, FY15 \$1,522.627M, and FY16 \$1,508.688M 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.

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

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 (CTOL); F-35B Short Takeoff and Vertical Landing (STOVL); and the F-35C Aircraft Carrier suitable Variant (CV). The CTOL will be a stealthy multi-role aircraft, primary air-to-ground for the Air Force to replace the F-16 and A-10 and complement the F-22. The STOVL variant will be a multi-role strike fighter aircraft to replace the AV-8B and F/A-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 (CV) 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 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 and USAF use. FY07: 1 CTOL flight test article FY08: 1 STOVL flight test article; 1 STOVL ground test article FY09: 1 STOVL flight test article; 2 CTOL ground test articles FY10: 6 flight test articles: 3 CTOL, 2 STOVL, 1 CV; 3 ground test articles: 1 STOVL, 2 CV FY11: 4 flight test articles: 1 CTOL, 1 STOVL, 2 CV FY13: 1 CV flight test article						
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title: System Development and Demonstration (SDD)		825.925	777.318	799.105	-	799.105
Articles:		-	-	-	-	-
Description: SDD execution of the Air System (Lockheed Martin) including International Commonality Effort; includes airframe,vehicle and mission systems, autonomic logistics, systems engineering & test efforts.						
FY 2014 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.						
FY 2015 Plans: Continue SDD execution of Air System Lockheed Martin, including International Commonality Effort which include, airframe vehicle systems, mission systems, autonomic logistics, systems engineering, and integrated test efforts. Activity aligned to IMS in accordance with variant IOC.						
FY 2016 Base Plans: Continue SDD execution of Air System Lockheed Martin, including International Commonality Effort which include, airframe, vehicle systems, mission systems, autonomic logistics, systems engineering, and integrated test efforts. Activity aligned to IMS in accordance with variant IOC.						
FY 2016 OCO Plans: N/A						
Title: F135 Propulsion System		148.826	195.378	177.048	-	177.048
Articles:		-	-	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
<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 2014 Accomplishments: 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 2015 Plans: Continue SDD execution of Air System Lockheed Martin, including International Commonality Effort which include, airframe vehicle systems, mission systems, autonomic logistics, systems engineering, and integrated test efforts. Activity aligned to IMS in accordance with variant IOC.</p> <p>FY 2016 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 2016 OCO Plans: N/A</p>						
<p>Title: Systems Engineering (SE)</p> <p>Articles:</p> <p>Description: SDD SE including systems operations requirements analysis, program integration,requirements integration, and interoperability support.</p> <p>FY 2014 Accomplishments: Continued SDD SE that includes systems operations requirements analysis, program integration, requirements integration, and interoperability support.</p> <p>FY 2015 Plans: Continue SDD SE, including systems operations requirements analysis, program integration, requirements integration, and interoperability support.</p> <p>FY 2016 Base Plans:</p>		22.212 -	24.310 -	25.021 -	- -	25.021 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Continue SDD SE, including systems operations requirements analysis, program integration, requirements integration, and interoperability support. FY 2016 OCO Plans: 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 2014 Accomplishments: Continued 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 (include initial Block 2B). Elements of DT&E include preparation for flight testing, weapons integration testing, and component capabilities testing. FY 2015 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 2016 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 2016 OCO Plans: N/A		308.406 -	384.711 -	399.122 -	- -	399.122 -
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 2014 Accomplishments:		108.971 -	140.910 -	108.392 -	- -	108.392 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Continued 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 2015 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 2016 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 2016 OCO Plans: N/A													
Accomplishments/Planned Programs Subtotals									1,414.340	1,522.627	1,508.688	-	1,508.688
Joint Strike Fighter 0604800F									600.360	535.296	517.980	-	517.980
Joint Strike Fighter 0604800N									409.421	485.263	467.759	-	467.759
International Partner									10.311	15.000	17.000	-	17.000
Navy Subtotals									394.248	487.068	505.949	-	505.949
C. Other Program Funding Summary (\$ in Millions)													
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost		
• RDT&E/0604800F: Joint Strike Fighter	600.360	535.296	517.980	-	517.980	323.446	114.595	5.291	5.365	Continuing	Continuing		
• International: International Partner (SDD)	10.311	15.000	17.000	-	17.000	22.000	27.450	-	-	Continuing	Continuing		
• APAF/0207142F: F-35 Joint Strike Strike Fighter	2,889.602	3,691.046	5,260.212	-	5,260.212	5,356.041	6,109.330	6,023.688	5,526.504	-	50,007.077		
• RDT&E/0604800N/2261: JT Strike Fighter (JSF) - EMD	409.421	485.263	467.759	-	467.759	443.185	45.436	0.574	0.615	Continuing	Continuing		

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C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• APN/0605B: F-35 Joint Strike Fighter STOVL Spares	88.304	64.194	111.569	-	111.569	76.703	29.756	100.362	136.763	Continuing	Continuing
• APN/0147C: F-35 Joint Strike Fighter CV AP	79.016	29.400	48.630	-	48.630	91.908	111.898	126.003	204.132	3,733.206	5,719.322
• APN/0605C: F-35 Joint Strike Fighter CV Spares	25.809	28.200	59.914	-	59.914	58.795	42.726	35.247	38.394	Continuing	Continuing
• MC/0207142F: USAF MILCON	56.000	66.700	132.850	-	132.850	124.000	-	-	-	1,328.000	2,238.050
• APAF/0204142F: USAF Modification Funding	126.777	187.646	70.167	-	70.167	310.237	294.229	260.071	259.791	Continuing	Continuing
• FOD/0207142F: USAF Follow-on Development	3.000	24.477	110.428	-	110.428	243.520	311.476	334.116	340.093	Continuing	Continuing
• 0207142F/USAF: USAF Spares	91.414	236.418	238.673	-	238.673	245.991	326.971	368.702	372.588	Continuing	Continuing
• OPN/4267: Autonomic Logistics Information System (ALIS)	3.389	-	-	-	-	-	-	-	-	-	19.105
• USAF/OPAF PE 27142F: OPAF	1.431	4.463	3.858	-	3.858	2.333	2.374	2.415	-	Continuing	Continuing
• APN/0592: F-35 STOVL Series	111.158	215.819	256.106	-	256.106	170.624	175.250	16.752	17.641	Continuing	Continuing
• APN/0593: F-35 CV Series	29.950	20.502	68.527	-	68.527	47.294	50.707	17.214	17.484	Continuing	Continuing
• RDT&E/0604800N/3352: F-35C Sustainment/ Capability Enhancements	14.419	16.997	36.977	-	36.977	-	-	-	-	-	68.393
• RDT&E/0604810M/2935: JSF Follow-on Development Marine Corps	-	10.399	59.265	-	59.265	120.028	157.257	168.502	171.946	Continuing	Continuing
• USAF SDD BP 653832: Deployability and Suitability Enhancements	16.200	32.593	71.461	-	71.461	-	-	-	-	-	134.421
• PAF/0207142F: JSF CTOL Advance Procurement	339.553	291.880	438.808	-	438.808	528.560	522.180	497.720	506.000	19,787.624	24,451.221
• DCA/0207142F 676011: Dual Capable Aircraft (DCA)	-	15.615	4.967	-	4.967	25.795	27.770	37.681	49.575	Continuing	Continuing
• APN/0147: F-35 Joint Strike Fighter CV	1,028.415	848.552	897.542	-	897.542	848.056	1,217.562	1,496.303	1,606.088	32,734.961	51,085.532

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C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost	
• APN/0152C: F-35 Joint Strike Fighter STOVL AP	103.195	143.885	203.060	-	203.060	226.148	136.872	139.562	142.353	2,900.408	4,834.934	
• APN/0152: F-35 Joint Strike Fighter STOVL	1,172.248	1,184.410	1,483.414	-	1,483.414	2,049.754	2,713.087	2,796.129	2,810.155	26,147.806	43,146.851	
• DoN MILCON: DoN JSF MILCON	-	131.904	94.420	-	94.420	230.900	64.660	121.990	119.800	Continuing	Continuing	
• International 2: International Procurement	1,954.600	2,975.641	4,175.668	-	4,175.668	6,006.257	7,809.829	7,962.298	7,166.485	Continuing	Continuing	
• OPN/4268: Logistics Information System (ALIS)	-	5.516	3.893	-	3.893	2.136	3.909	3.774	3.854	Continuing	Continuing	
• MC/0207597F: USAF MILCON	-	-	65.400	-	65.400	34.000	18.900	21.000	-	-	139.300	
• RDT&E/0604800N/C261: JSF Block 4 USN Cong	1.500	-	-	-	-	-	-	-	-	-	1.500	
• International 3: International FoD	-	10.200	44.500	-	44.500	128.965	157.602	169.315	171.636	Continuing	Continuing	
• OPN 902010: ALIS Spares and Repair Parts	1.010	-	-	-	-	-	-	-	-	-	1.010	
• OPN 902010 S8JC: Aviation Support Equipment (ALIS)	-	1.576	2.946	-	2.946	1.948	1.940	1.957	1.995	Continuing	Continuing	
• USAF O&M: USAF OPAF: BA01: PE 207142F	112.183	217.556	302.952	-	302.952	360.107	452.906	555.687	858.671	Continuing	Continuing	
• USAF OPAF: USAF OPAF: BA01: PE 207142F	1.431	4.463	3.858	-	3.858	2.333	2.374	2.415	-	Continuing	Continuing	
• RDT&E/0604810N/2936: JSF Follow-on Development Navy	-	10.622	47.579	-	47.579	103.564	134.250	145.580	148.975	Continuing	Continuing	
Remarks												
D. Acquisition Strategy												
The SDD program consists of a cost-reimbursement contract awarded to Lockheed Martin Aeronautics Company to develop the F-35 Air System, consisting of three aircraft variants and its associated logistics support system, for the U.S. Services and international participants. Similarly, a cost-reimbursement contract was awarded to Pratt & Whitney to develop the F135 propulsion system. Ground and flight testing will be conducted during development to accomplish validation and verification, with the extensive use of modeling and simulation to offset the risk of this large, complex, and concurrent lifecycle program. A comprehensive logistics support environment, including an integrated training system for aircrew, maintenance, and support personnel, is also being developed.												

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<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.</p> <p><u>E. Performance Metrics</u></p> <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 Conventional Take Off and Landing Does Not Meet Requirement Carrier Variant (CV) Meets Tripwire Requirement Short Take Off Vertical Landing (STOVL) Meets/Exceeds Tripwire Requirement</p> <p>CV Recovery Maximum Approach Speed Meets Requirement In Tripwire Band</p> <p>STOVL 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>Interoperability Net Ready Criteria- Meets Requirement In Tripwire Band</p> <p>Radio Frequency Signature Meets/Exceeds Tripwire Requirement</p>		

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<p>Force Protection</p> <p>CB Pilot Protection (New Key Performance Parameters Per CN3) - Meets/Exceeds Tripwire Requirement</p> <p>Mission Reliability</p> <p>Conventional Take Off and Landing (CTOL) Meets/Exceeds Tripwire Requirement</p> <p>Carrier Variant (CV) Exceeds Operational Requirements Document Objective</p> <p>Short Takeoff and Vertical Landing (STOVL) United States Marine Corps (USMC) Meets/Exceeds Tripwire Requirement</p> <p>STOVL United Kingdom (UK) Meets/Exceeds Tripwire Requirement</p> <p>Sortie Generation Rate</p> <p>CTOL Meets/Exceeds Tripwire Requirement</p> <p>CV Meets/Exceeds Tripwire Requirement</p> <p>STOVL USMC Meets/Exceeds Tripwire Requirement</p> <p>STOVL UK Meets/Exceeds Tripwire Requirement</p> <p>Logistics Footprints</p> <p>CTOL Meets/Exceeds Tripwire Requirement</p> <p>STOVL USMC Meets/Exceeds Tripwire Requirement</p> <p>Logistics Footprint- Volume</p> <p>CV Exceeds Operational Requirements Document (ORD) Objective</p> <p>STOVL USMC Exceeds ORD Objective</p> <p>STOVL UK Meets/Exceeds Tripwire Requirement</p> <p>Logistics Footprint-Weight</p> <p>CV Exceeds ORD Objective</p> <p>STOVL USMC Exceeds ORD Objective</p> <p>STOVL UK Meets/Exceeds Tripwire Requirement</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy												Date: February 2015			
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					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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	29,353.962	771.581	Dec 2013	579.983	Dec 2014	701.085	Dec 2015	-		701.085	977.230	32,383.841	32,383.841
Primary Hardware Development - Award Fee	C/CPAF	Lockheed Martin : Ft. Worth, TX	1,596.990	53.549	Dec 2013	94.000	Dec 2014	98.020	Dec 2015	-		98.020	97.648	1,940.207	1,940.207
Primary Hardware Development - D-0022	C/CPFF	Lockheed Martin : Lockheed Martin	27.025	0.120	Dec 2013	-		-		-		-	-	27.145	27.145
Primary Hardware Development -D-0005	C/CPFF	Lockheed Martin : Ft. Worth, TX	2.230	0.675	Dec 2013	1.200	Dec 2014	-		-		-	-	4.105	4.105
Primary Hardware Development - LRIP 0003	C/CPFF	Lockheed Martin : Ft. Worth, TX	0.000	-	Dec 2013	0.135	Dec 2014	-		-		-	-	0.135	0.135
Primary Hardware Development -BOA	C/CPFF	Lockheed Martin : Ft. Worth, TX	0.000	-		102.000	Dec 2014	-		-		-	-	102.000	102.000
Primary Hardware Development - SDD	C/CPAF	Pratt and Whitney : Hartford, CT	6,885.440	128.626	Dec 2013	180.611	Dec 2014	156.980	Dec 2015	-		156.980	55.381	7,407.038	7,407.038
Primary Hardware Development - Award Fee	C/CPAF	Pratt and Whitney : Hartford, CT	633.452	20.200	Dec 2013	14.767	Dec 2014	20.068	Dec 2015	-		20.068	-	688.487	688.487
Systems Engineering	Various	Systems Engineering : Various	380.697	18.473	Nov 2013	22.367	Nov 2014	22.646	Dec 2015	-		22.646	14.365	458.548	458.548
Prior Year No Longer Funded in FYDP	Various	Various : Various	2,843.788	-		-		-		-		-	-	2,843.788	2,843.788
Subtotal			41,723.584	993.224		995.063		998.799		-		998.799	1,144.624	45,855.294	45,855.294
Remarks Cumulative Award Fee earned in prior years for Lockheed Martin is 82%. Cumulative Award Fee earned in prior years for Pratt and Whitney is 91%.															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy												Date: February 2015			
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 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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	112.290	9.690	Nov 2013	7.712	Nov 2014	6.244	Nov 2015	-		6.244	6.562	142.498	-
Development Support - AFLCMC/AFRL	Various	AFLCMC/AFRL : Various	61.065	1.834	Nov 2013	1.927	Nov 2014	3.565	Nov 2015	-		3.565	1.228	69.619	-
Engine Test and Evaluation Support - AEDC/Fuel	Various	Various : Various	155.502	16.158	Nov 2013	37.073	Nov 2014	20.115	Nov 2015	-		20.115	-	228.848	-
Development Support - Miscellaneous	Various	Various : Various	85.874	13.432	Nov 2013	28.843	Nov 2014	22.315	Nov 2015	-		22.315	16.992	167.456	-
Software Development Support	Various	NAWC WD : China Lake, CA	115.896	24.450	Nov 2013	17.306	Nov 2014	18.659	Nov 2015	-		18.659	11.536	187.847	-
Development Support	Various	NAWC AD : Patuxent, MD	344.363	24.711	Nov 2013	35.420	Nov 2014	27.994	Nov 2015	-		27.994	20.054	452.542	-
Prior Year No Longer Funded in FYDP	Various	Various : Various	77.076	-		-		-		-		-	-	77.076	-
Subtotal			952.066	90.275		128.281		98.892		-		98.892	56.372	1,325.886	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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	35.213	2.735	Nov 2013	2.383	Nov 2014	2.383	Nov 2015	-		2.383	2.383	45.097	-
Developmental Test and Evaluation	Various	NAWC AD : Patuxent River, MD	497.459	94.849	Nov 2013	128.007	Nov 2014	172.360	Nov 2015	-		172.360	-	892.675	-
Developmental Test and Evaluation	Various	Edwards AFB : Edwards AFB, CA	484.744	64.769	Nov 2013	69.390	Nov 2014	73.535	Nov 2015	-		73.535	13.101	705.539	-
Developmental Test and Evaluation - Other (including Classified PIDs) te	Various	Various : Various	112.744	57.117	Nov 2013	65.161	Nov 2014	55.204	Nov 2015	-		55.204	4.134	294.360	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy												Date: February 2015			
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					
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Operational Test and Evaluation Support	Various	WEPS/Eglin : Various	27.829	-		-		-		-		-	-	27.829	-
Operational Test and Evaluation Support	Various	OT-AFOTEC/ AFFTC : Kirkland AFB, NM/Eglin AFB, FL	129.427	28.601	Nov 2013	65.060	Nov 2014	35.600	Nov 2015	-		35.600	151.848	410.536	-
Operational Test and Evaluation Support	Various	OT-JITC/OPTEC : Various	8.363	7.988	Nov 2013	20.709	Nov 2014	24.414	Nov 2015	-		24.414	69.426	130.900	-
Subtotal			1,295.779	256.059		350.710		363.496		-		363.496	240.892	2,506.936	-
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Business Integration - Cost ACT I	SS/CPFF	ACT I : Arlington, VA	10.938	1.021	Dec 2013	-	Dec 2014	-		-		-	-	11.959	11.959
Security Mantech	C/FP	Mantech : Arlington, VA	65.899	9.000	Dec 2013	-		-		-		-	-	74.899	74.899
Program Engineering Support	C/CPFF	First Principles : Arlington, VA	6.840	1.919	Dec 2013	2.000	Dec 2014	-		-		-	-	10.759	10.759
AFLCMC Civilian Pay	Various	AFLCMC CIVPAY : Wright Patterson, AFB, OH	36.354	26.697	Oct 2013	27.994	Oct 2014	28.120	Oct 2015	-		28.120	12.225	131.390	131.390
Program Management Support	C/CPFF	Wyle : Arlington, VA	126.371	1.109	Dec 2013	-		-		-		-	-	127.480	127.480
IT Support	C/CPFF	CGI BOSS : Arlington, VA	202.077	14.009	Dec 2013	-		-		-		-	-	216.086	216.086
Program Management Support	C/CPFF	Allutiq : Arlington, VA	0.700	0.717	Nov 2013	0.727	Dec 2014	0.536	Dec 2015	-		0.536	1.705	4.385	4.385
Facilities BOSS	Various	Various : Various	11.079	6.514	Nov 2013	8.775	Dec 2014	7.476	Dec 2015	-		7.476	16.076	49.920	49.920
IT Support	Various	Various : Various	2.767	4.126	Nov 2013	5.775	Dec 2014	5.907	Dec 2015	-		5.907	7.521	26.096	26.096
Travel	Various	Various : Various	17.501	1.327	Nov 2013	1.808	Nov 2014	1.870	Nov 2015	-		1.870	3.552	26.058	26.058

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy												Date: February 2015			
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 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	Various	Jacobs BOSS : Arlington, VA	0.000	6.208	Nov 2013	-		-		-		-	-	6.208	6.208
Program Management Support	Various	Cost/FM/EV : Arlington, VA	0.000	2.000	Nov 2013	-		3.457	Nov 2015	-		3.457	7.193	12.650	12.650
Program Management Support	Various	Andrews AFB : Camp Springs, MD	0.000	0.135	Nov 2013	1.494	Nov 2014	0.135	Nov 2015	-		0.135	0.405	2.169	2.169
Prior Year No Longer Funded in FYDP	Various	Various : Various	146.343	-		-		-		-		-	-	146.343	146.343
Subtotal			626.869	74.782		48.573		47.501		-		47.501	48.677	846.402	846.402
Remarks															
Cumulative Award Fee earned in prior years for Stanley is 99%.															
			Prior Years	FY 2014	FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract	
Cost Category Subtotals			44,598.298	1,414.340		1,522.627		1,508.688		-		1,508.688	1,490.565	50,534.518	-
Joint Strike Fighter 0604800F			-	600.360		535.296		517.980		-		517.980			-
Joint Strike Fighter 0604800N			-	409.421		485.263		467.759		-		467.759			-
International Partner			-	10.311		15.000		17.000		-		17.000			-
Project Cost Totals			44,598.298	394.248		487.068		505.949		-		505.949	1,490.565	50,534.518	-
Remarks															
NOTE 1: Prior Years reflect \$19,903.759M USAF/\$17,980.360M USN/\$1,802.784 USMC /\$4,911.395 International/Total \$44,598.298															
FY 2014 reflects \$600.360 USAF/\$409.421M USN/\$394.248M USMC/\$10.311M International/Total \$1,414.340M															
FY 2015 reflects \$535.296M USAF/\$485.263M USN/\$487.068M USMC/\$15.000M International/Total \$1,522.627M															
FY 2016 reflects \$517.980M USAF/\$467.759 USN/\$505.949M USMC/\$17.000M International/Total \$1,508.688M															
NOTE 2:R-2A/R-3 displays total combined program (i.e. not Service-specific), including International partners. Funding for JSF Engineering and Manufacturing Development (EMD) and JSF Deployability and Suitability Enhancements (D&S).															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy							Date: February 2015			
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				
	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract	
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 2016 Navy

Date: February 2015

Appropriation/Budget Activity

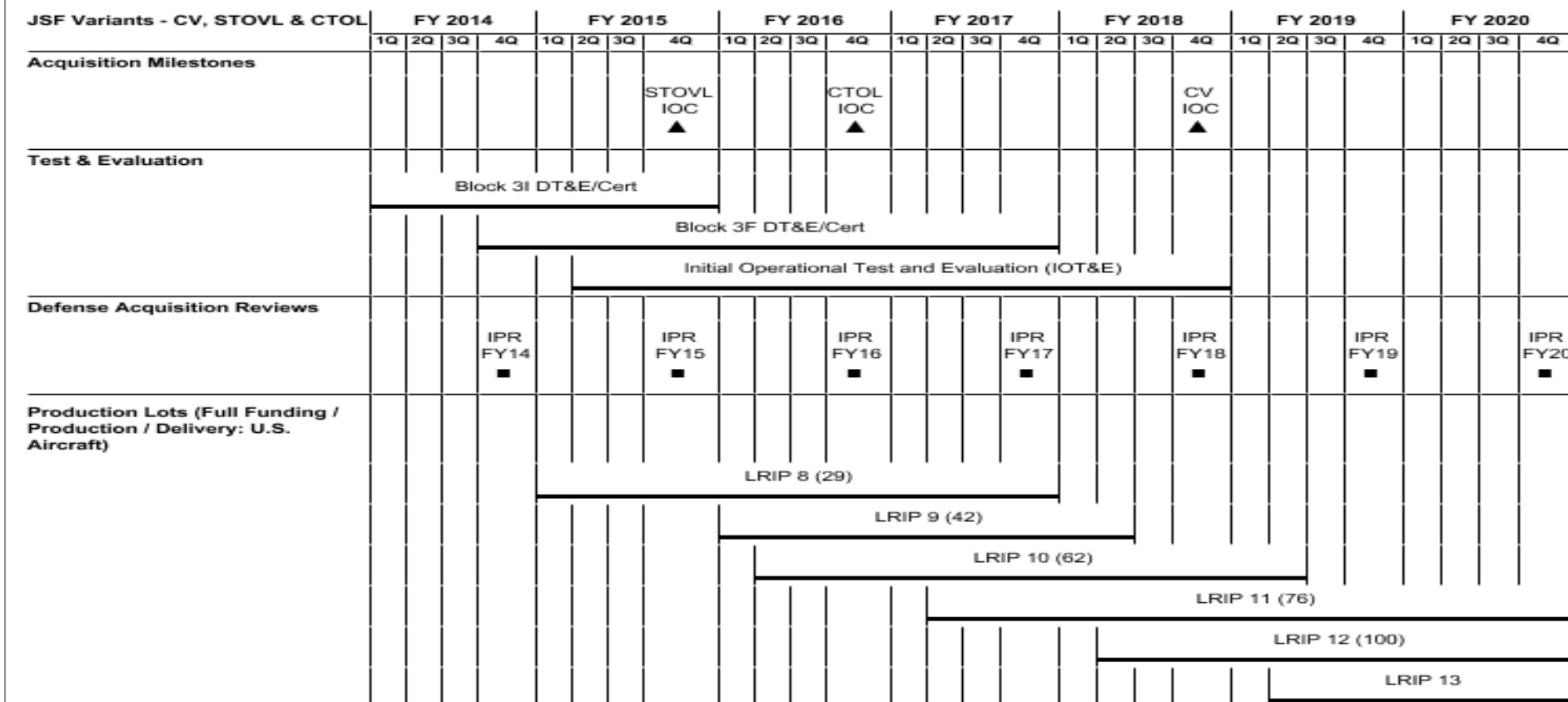
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R-1 Program Element (Number/Name)

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

Project (Number/Name)

2262 / Joint Strike Fighter EMD STOVL



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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy			Date: February 2015
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: STOVL Initial Operational Capability	4	2015	4	2015
Acquisition Milestones: CTOL Initial Operational Capability	4	2016	4	2016
Acquisition Milestones: CV Initial Operational Capability	4	2018	4	2018
Test & Evaluation: Test and Evaluation: Block 3I DT&E/Cert	1	2014	4	2015
Test & Evaluation: Test and Evaluation: Block 3F DT&E/Cert	4	2014	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-14	4	2014	4	2014
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
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 2016 Navy			Date: February 2015		
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 9 Full Funding / Production / Delivery		1	2016	2	2018
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 10 Full Funding / Production / Delivery		2	2016	2	2019
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 11 Full Funding / Production / Delivery		2	2017	4	2020
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 12 Full Funding / Production / Delivery		2	2018	4	2020
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 13 Full Funding / Production / Delivery		2	2019	4	2020

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy										Date: February 2015		
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			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
3350: F-35B Sustainment/ Capability Enhancements	-	14.332	11.980	31.952	-	31.952	-	-	-	-	-	58.264
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

Total cost including United States Navy (USN), United States Marine Corps (USMC), and United States Air Force (USAF) funding is: FY14 \$44.951M, FY15 \$61.570M, and FY16 \$140.390M

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. The annual funding contribution between the United States Navy and United States Marine Corps is approximately equal.

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

	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title: Sustainment and Capability Enhancements	30.477	42.236	121.797	-	121.797
Articles:	-	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy				Date: February 2015		
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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
<p>Description: Apply disciplined systems engineering, refinement of requirements, develop and acquire suitability and maintainability of the air system such as decentralized maintenance capabilities, LO maintenance enhancements, security architecture updates, redesign of obsolete items and integrated training simulators.</p> <p>FY 2014 Accomplishments: Conducted systems engineering, technology maturation, integration and test planning for Deployability and Suitability enhancements.</p> <p>FY 2015 Plans: Continue to conduct systems engineering, technical maturation, integration and test planning for suitability and deployability enhancements.</p> <p>FY 2016 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.</p> <p>FY 2016 OCO Plans: N/A</p>						
<p>Title: Development Support</p> <p align="right">Articles:</p> <p>Description: Initiate support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities.</p> <p>FY 2014 Accomplishments: Continued development enhancement support for Deployable Autonomic Logisitics Information System, decentralized maintenance capabilities, Low Observable maintenance enhancements, security architecture updates, redesign of obsolete items and integrated training simulators.</p> <p>FY 2015 Plans:</p>		11.846 -	14.745 -	14.417 -	- -	14.417 -

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy				Date: February 2015				
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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 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 2016 Base Plans: 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 2016 OCO Plans: N/A								
Title: Development Test and Evaluation Articles: Description: Verification and testing for deployability and suitability enhancements. FY 2014 Accomplishments: Initiated verification of test articles, evaluation strategy and metrics in preparation for testing of deployability and suitability enhancements. FY 2015 Plans: Continue to initiate government test and evaluation of capability enhancements for Deployable Autonomic Logistics Information system, and LO maintenance enhancements. FY 2016 Base Plans: Continue to initiate government test and evaluation of capability enhancements for Deployable Autonomic Logistics Information system, and LO maintenance enhancements. FY 2016 OCO Plans: N/A				2.628 -	4.589 -	4.176 -	- -	4.176 -
Accomplishments/Planned Programs Subtotals				44.951	61.570	140.390	-	140.390
Joint Strike Fighter 0604800F				16.200	32.593	71.461	-	71.461
Joint Strike Fighter 0604800N				14.419	16.997	36.977	-	36.977
Navy Subtotals				14.332	11.980	31.952	-	31.952

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy									Date: February 2015		
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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• RDT&E/0604800F: Joint Strike Fighter	600.360	535.296	517.980	-	517.980	323.446	114.595	5.291	5.365	Continuing	Continuing
• International: International Partner (SDD/FOD)	10.311	15.000	17.000	-	17.000	22.000	27.450	-	-	Continuing	Continuing
• APAF/0207142F: F-35 Joint Strike Strike Fighter	2,889.602	3,691.046	5,260.212	-	5,260.212	5,356.041	6,109.330	6,023.688	5,526.504	-	50,007.077
• RDT&E/0604800N/2261: JT Strike Fighter (JSF) - EMD	409.616	485.263	468.000	-	468.000	443.434	45.647	0.736	0.751	Continuing	Continuing
• APN/0605B: F-35 Joint Strike Fighter STOVL Spares	88.304	64.194	111.569	-	111.569	76.703	29.756	100.362	136.763	Continuing	Continuing
• APN/0147C: F-35 Joint Strike Fighter CV	79.016	29.400	48.630	-	48.630	91.908	111.898	126.003	204.132	3,733.206	5,719.322
• APN/0605C: F-35 Joint Strike Fighter CV Spares	25.809	28.200	59.914	-	59.914	58.795	42.726	35.247	38.394	Continuing	Continuing
• MC/0207142F: USAF MILCON	56.000	66.700	132.850	-	132.850	124.000	-	-	-	1,328.000	2,238.050
• APAF/0204142F: USAF Modification Funding	126.777	187.646	70.167	-	70.167	310.237	294.229	260.071	259.791	Continuing	Continuing
• FOD/0207142F: USAF Follow-on Development	3.000	24.477	110.428	-	110.428	243.520	311.476	334.116	340.093	Continuing	Continuing
• 0207142F/USAF: USAF Spares	91.414	236.418	238.673	-	238.673	245.991	326.971	368.702	372.588	-	2,790.845
• OPN/4267: Autonomic Logistics Information System (ALIS)	3.389	-	-	-	-	-	-	-	-	-	19.105
• USAF/OPAF PE 27142F: OPAF	1.431	4.463	3.858	-	3.858	2.333	2.374	2.415	-	Continuing	Continuing
• APN/0592: F-35 STOVL Series	111.158	215.819	256.106	-	256.106	170.624	175.250	16.752	17.641	Continuing	Continuing
• APN/0593: F-35 CV Series	29.950	20.502	68.527	-	68.527	47.294	50.707	17.214	17.484	Continuing	Continuing
• RDT&E/0604800N/3352: F-35C Sustainment/ Capability Enhancements	14.419	16.997	36.977	-	36.977	-	-	-	-	-	68.393
• RDT&E/0604810M/2935: F-35C Follow-on Development Marine Corps	-	10.399	59.265	-	59.265	120.028	157.257	168.502	171.946	Continuing	Continuing

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy									Date: February 2015		
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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• USAF SDD BP 653832: Deployability and Suitability Enhancements	16.200	32.593	71.461	-	71.461	-	-	-	-	-	134.421
• PAF/0207142F: JSF CTOL Advance Procurement	339.553	291.880	438.808	-	438.808	528.560	522.180	497.720	506.000	19,787.624	24,451.221
• DCA/0207142F: Dual Capable Aircraft (DCA)	-	15.615	4.967	-	4.967	25.795	27.770	37.681	49.575	Continuing	Continuing
• APN/0147: F-35 Joint Strike Fighter CV	1,028.415	848.552	897.542	-	897.542	848.056	1,217.562	1,496.303	1,606.088	32,734.961	51,085.532
• APN PE BP0152C: Advance Procurement (STOVL) BP0152C	103.195	143.885	203.060	-	203.060	226.148	136.872	139.562	142.353	2,900.408	4,834.934
• APN PE BP0152: Advance Procurement (STOVL) BP0152	1,172.248	1,184.410	1,483.414	-	1,483.414	2,049.754	2,713.087	2,796.129	2,810.155	26,147.806	43,146.851
• DoN MILCON: DoN JSF MILCON	-	131.904	94.420	-	94.420	230.900	64.660	121.990	119.800	Continuing	Continuing
• International 2: International Procurement	1,954.600	2,975.641	4,175.668	-	4,175.668	6,006.257	7,809.829	7,962.298	7,166.485	Continuing	Continuing
• OPN/4268: Logistics Information System (ALIS)	-	5.516	3.893	-	3.893	2.136	3.909	3.774	3.854	Continuing	Continuing
• MC/0207597F: USAF MILCON	-	-	65.400	-	65.400	34.000	18.900	21.000	-	-	139.300
• RDT&E/0604800N/C261: JSF Block 4 USN Cong	1.500	-	-	-	-	-	-	-	-	-	1.500
• International 3: International FoD	-	10.200	44.500	-	44.500	128.965	157.602	169.315	171.636	Continuing	Continuing
• OPN 902010: ALIS Spares and Repair Parts	1.010	-	-	-	-	-	-	-	-	-	1.010
• OPN 902010 S8JC: Aviation Support Equipment (ALIS)	-	1.576	2.946	-	2.946	1.948	1.940	1.957	1.995	Continuing	Continuing
• USAF O&M: USAF OPAF: BA01: PE 207142F	112.183	217.556	302.952	-	302.952	360.107	452.906	555.687	858.671	Continuing	Continuing
• USAF OPAF: USAF OPAF: BA01: PE 207142F	1.431	4.463	3.858	-	3.858	2.333	2.374	2.415	-	Continuing	Continuing
• RDT&E/0604810N/2936: JSF Follow-on Development Navy	-	10.622	47.579	-	47.579	103.564	134.250	145.580	148.975	Continuing	Continuing

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy									Date: February 2015		
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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
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											
Conventional Take Off and Landing (CTOL) Does Not Meet Requirement											
Carrier Variant (CV) Meets Tripwire Requirement											
Short Take Off Vertical Landing (STOVL) Meets/Exceeds Tripwire Requirement											
CV Recovery											
Maximum Approach Speed Meets Requirement In Tripwire Band											
STOVL 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											
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											

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy		Date: February 2015
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>Mission Reliability</p> <p>CTOL Meets/Exceeds Tripwire Requirement</p> <p>CV Exceeds Operational Requirements Document Objective</p> <p>STOVL United States Marine Corps Meets/Exceeds Tripwire Requirement</p> <p>STOVL United Kingdom Meets/Exceeds Tripwire Requirement</p> <p>Sortie Generation Rate</p> <p>CTOL Meets/Exceeds Tripwire Requirement</p> <p>CV Meets/Exceeds Tripwire Requirement</p> <p>Short Take Off Vertical Landing (STOVL) United States Marine Corps Meets/Exceeds Tripwire Requirement</p> <p>STOVL UK Meets/Exceeds Tripwire Requirement</p> <p>Logistics Footprints</p> <p>Conventional Take Off and Landing (CTOL) Meets/Exceeds Tripwire Requirement</p> <p>STOVL USMC Meets/Exceeds Tripwire Requirement</p> <p>Logistics Footprint- Volume</p> <p>Carrier Variant (CV) Exceeds Operational Requirements Document (ORD) Objective</p> <p>STOVL USMC Exceeds ORD Objective</p> <p>STOVL UK Meets/Exceeds Tripwire Requirement</p> <p>Logistics Footprint-Weight</p> <p>Carrier Variant (CV)Exceeds Operations Requirements Document (ORD) Objective</p> <p>STOVL USMC Exceeds ORD Objective</p> <p>STOVL UK Meets/Exceeds Tripwire Requirement</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy												Date: February 2015			
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					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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 Development LM Deployability Suitability	C/CPFF	Lockheed Martin : Fort Worth, TX	0.000	30.837	Mar 2014	42.236	Mar 2015	121.797	Mar 2016	-		121.797	-	194.870	194.870
Subtotal			0.000	30.837		42.236		121.797		-		121.797	-	194.870	194.870
Remarks															
Cumulative Award Fee earned for Lockheed Martin 0%.															
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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	WR	Various : Various	0.000	10.846	Mar 2014	13.745	Mar 2015	13.417	Mar 2016	-		13.417	-	38.008	-
Subtotal			0.000	10.846		13.745		13.417		-		13.417	-	38.008	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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	0.000	2.268	Jun 2014	4.589	Jun 2015	4.176	Mar 2016	-		4.176	-	11.033	-
Subtotal			0.000	2.268		4.589		4.176		-		4.176	-	11.033	-
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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	0.000	1.000	Dec 2013	1.000	Dec 2014	1.000	Dec 2015	-		1.000	-	3.000	-
Subtotal			0.000	1.000		1.000		1.000		-		1.000	-	3.000	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy										Date: February 2015			
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				
	Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Subtotals	0.000	44.951		61.570		140.390		-		140.390	-	246.911	-
Joint Strike Fighter 0604800F	-	16.200		32.593		71.461		-		71.461			-
Joint Strike Fighter 0604800N	-	14.419		16.997		36.977		-		36.977			-
Project Cost Totals	0.000	14.332		11.980		31.952		-		31.952	-	246.911	-
Remarks													
NOTE: Prior Years reflect \$14.167 USAF/Total \$14.167													
FY 2014 reflects \$16.200M USAF/\$14.419M USN/\$14.332M USMC/\$0.000M International/Total \$44.951M													
FY 2015 reflects \$32.593M USAF/\$16.997M USN/\$11.980M USMC/\$0.000M International/Total \$61.570M													
FY 2016 reflects \$71.461M USAF/\$36.977USN/\$31.952M USMC/\$0.000M International/Total \$140.390M													
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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PE 0604800M: (U)Joint Strike Fighter (JSF) - EMD
Navy

R-1 Line #135

Appropriation/Budget Activity
1319 / 5

R-1 Program Element (Number/Name)
 PE 0604800M I (U)Joint Strike Fighter (JSF)
 - EMD

Project (Number/Name)
3350 / F-35B Sustainment/Capability
Enhancements

Proj 3350	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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			Contract Award																									
			Deployment and Suitability Enhancements																									

2016OSD - 0604800M - 3350

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy			Date: February 2015
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: D&S Contract Award	3	2014	3	2014
D&S: D&S Deployment and Suitability Enhancements	3	2014	4	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy										Date: February 2015																										
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604800M / (U)Joint Strike Fighter (JSF) - EMD				Project (Number/Name) 9999 / Congressional Adds																											
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost																								
9999: Congressional Adds	-	1.500	-	-	-	-	-	-	-	-	-	1.500																								
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-																										
Note FY 2014 reflects \$0.000M USAF/\$1.500M USN/\$1.500M USMC/\$0.000 International Partners/Total \$3.000M A. Mission Description and Budget Item Justification Congressional Add. Provides funding to produce, staff, and gain approval of a Block 4 Capability Development Document. B. Accomplishments/Planned Programs (\$ in Millions) <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width:70%;"></td> <td align="center">FY 2014</td> <td align="center">FY 2015</td> </tr> <tr> <td>Congressional Add: JSF Block 4 - USN Cong</td> <td align="center">1.500</td> <td align="center">-</td> </tr> <tr> <td>FY 2014 Accomplishments: N/A</td> <td></td> <td></td> </tr> <tr> <td>FY 2015 Plans: N/A</td> <td></td> <td></td> </tr> <tr> <td>Congressional Add: JSF Block 4 - USMC Cong</td> <td align="center">1.500</td> <td align="center">-</td> </tr> <tr> <td>FY 2014 Accomplishments: N/A</td> <td></td> <td></td> </tr> <tr> <td>FY 2015 Plans: N/A</td> <td></td> <td></td> </tr> <tr> <td align="right">Congressional Adds Subtotals</td> <td align="center">3.000</td> <td align="center">-</td> </tr> </table>														FY 2014	FY 2015	Congressional Add: JSF Block 4 - USN Cong	1.500	-	FY 2014 Accomplishments: N/A			FY 2015 Plans: N/A			Congressional Add: JSF Block 4 - USMC Cong	1.500	-	FY 2014 Accomplishments: N/A			FY 2015 Plans: N/A			Congressional Adds Subtotals	3.000	-
	FY 2014	FY 2015																																		
Congressional Add: JSF Block 4 - USN Cong	1.500	-																																		
FY 2014 Accomplishments: N/A																																				
FY 2015 Plans: N/A																																				
Congressional Add: JSF Block 4 - USMC Cong	1.500	-																																		
FY 2014 Accomplishments: N/A																																				
FY 2015 Plans: N/A																																				
Congressional Adds Subtotals	3.000	-																																		
C. Other Program Funding Summary (\$ in Millions) N/A Remarks D. Acquisition Strategy Not required for Congressional Add. E. Performance Metrics Not required for Congressional Add.																																				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy												Date: February 2015			
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604800M / (U)Joint Strike Fighter (JSF) - EMD				Project (Number/Name) 9999 / Congressional Adds					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Mission and Threat Analysis for Capability Development Document	C/CPFF	Lockheed Martin : Fort Worth, TX	0.000	1.184	Aug 2014	-		-		-		-	-	1.184	-
Radar Capability Requirements Analysis	Various	DARPA : Various	0.000	0.126	Jul 2014	-		-		-		-	-	0.126	-
Subtotal			0.000	1.310		-		-		-		-	-	1.310	-
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Technical and Analytic Support to CDD Development and Staffing	SS/T&M	Various : Various	0.000	1.406	Mar 2014	-		-		-		-	-	1.406	-
Subtotal			0.000	1.406		-		-		-		-	-	1.406	-
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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 and CDD Preparations	Various	Various : Various	0.000	0.284	Mar 2014	-		-		-		-	-	0.284	-
Subtotal			0.000	0.284		-		-		-		-	-	0.284	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Subtotals			0.000	3.000		-		-		-		-	-	3.000	-
Joint Strike Fighter 0804800N			-	1.500		-		-		-		-			-
Project Cost Totals			0.000	1.500		-		-		-		-	-	3.000	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy							Date: February 2015			
Appropriation/Budget Activity 1319 / 5			R-1 Program Element (Number/Name) PE 0604800M I (U)Joint Strike Fighter (JSF) - EMD			Project (Number/Name) 9999 I Congressional Adds				
	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks										
NOTE:										
FY 2014 reflects \$0.000M USAF/\$1.500 USN/\$1.500M USMC/\$0.000M International/Total \$3.000M										
R-2A (section B)/R-3 displays total combined program (i.e. not Service-specific), including International partners.										
JSF BLOCK 4 Includes: USN PE 0604800N Project Unit C261 USMC PE 0604800M Project Unit C260										
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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PE 0604800M: (U)Joint Strike Fighter (JSF) - EMD
Navy

R-1 Line #135

Project (Number/Name)	Start Date	End Date	Project Manager	Status	Comments
9999 / Congressional Adds					

2016 OSD - 0604800M - 9999

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy			Date: February 2015
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604800M / (U)Joint Strike Fighter (JSF) - EMD	Project (Number/Name) 9999 / Congressional Adds	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 9999				
Block 4 CDD Development: CDD Development	2	2014	4	2014
Block 4: Block 4: CDD Validation	1	2015	1	2015
Block 4: Block 4: Requirements Development and Analysis	2	2015	2	2017
Block 4: Block 4A: Design, Build and Test	2	2017	4	2020
Block 4: Block 4B: Design, Build and Test	2	2019	4	2020