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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	39,677.369	632.042	743.926	534.187	-	534.187	605.174	526.579	369.078	196.299	Continuing	Continuing
2261: Joint Strike Fighter EMD	39,573.685	605.998	724.392	507.753	-	507.753	570.181	450.625	254.021	23.023	Continuing	Continuing
3194: Joint Reprogramming Center	103.684	26.044	19.534	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	149.262
3352: F-35C Sustainment/ Capability Enhancements	0.000	0.000	0.000	14.992	-	14.992	14.997	14.991	0.000	0.000	0.000	44.980
3353: F-35C Follow-on Development	0.000	0.000	0.000	11.442	-	11.442	19.996	60.963	115.057	173.276	Continuing	Continuing
MDAP/MAIS Code(s): 198												
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
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 United States Navy, Air Force, Marine Corps 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-18A/C/D 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 CV will provide the DoN 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 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 SDD Budget funds a total quantity of 20 RDT&E test articles to include 6 ground test articles and 14 flight test articles for Navy and Air Force use.												
FY07: 1 Conventional Take Off and Landing (CTOL) flight test article												
FY08: 1 Short Take Off and Vertical Landing (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 Carrier Variant (CV); 3 ground test articles: 1 STOVL, 2 CV												

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604800N: <i>JT Strike Fighter (JSF) - EMD</i>
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FY11: 4 flight test articles: 1 CTOL, 1 STOVL, 2 CV
FY13: 1 CV flight test article

BA5 - This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting Engineering and Manufacturing Development (EMD) tasks aimed at meeting validated requirements prior to full-rate production.

B. Program Change Summary (\$ in Millions)	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014 Base</u>	<u>FY 2014 OCO</u>	<u>FY 2014 Total</u>
Previous President's Budget	658.549	743.926	702.100	-	702.100
Current President's Budget	632.042	743.926	534.187	-	534.187
Total Adjustments	-26.507	0.000	-167.913	-	-167.913
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-10.000	0.000			
• SBIR/STTR Transfer	-16.507	0.000			
• Program Adjustments	0.000	0.000	-75.256	-	-75.256
• Rate/Misc Adjustments	0.000	0.000	-92.657	-	-92.657

Change Summary Explanation

The SDD funding profile has been rephased (FY14-17) to better align resources to requirements.

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD				PROJECT 2261: Joint Strike Fighter EMD			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
2261: Joint Strike Fighter EMD	39,573.685	605.998	724.392	507.753	-	507.753	570.181	450.625	254.021	23.023	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
Total cost including USN, USMC, International partner contributions and USAF funding are: FY12 \$2,735.504M, FY13 \$2,803.393M and FY14 \$1,777.322M. R-2 data reflects variant unique funding only.												
R2A costs shown above reflects service funding only.												
R-2A(section B)/R-3 displays total combined Service (i.e. not Service specific), including International partners, funding for JSF Engineering and Manufacturing Development(EMD) and JSF Deployability and Suitability Enhancements (D&S).												
JSF EMD Includes: USAF PE 0604800F BPAC 653831 USN PE 0604800N Project Unit 2261 USMC PE 0604800M Project Unit 2262 International Partners												
D&S Includes: USAF PE 0604800F BPAC 653832 USN PE 0604800N Project Unit 3352 USMC PE 0604800M Project Unit 3350												
JSF FoD Includes: UASF PE 0207142F BPAC 675346 USN FY13 PE 0604800N Project Unit 2261 USN FY14 PE 0604800N Project Unit 3353 USMC FY13 PE 0604800M Project Unit 2262 USMC FY14 PE 0604800M Project Unit 3351												

UNCLASSIFIED

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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 United States Navy, Air Force, Marine Corps 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-18A/C/D 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 CV will provide the DoN 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 JSF program. The program shown here reflects USN, USMC, 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. 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 Navy and Air Force use. FY07: 1 Conventional Take Off and Landing (CTOL) flight test article FY08: 1 Short Take Off and Vertical Landing (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 Carrier Variant (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 BA5 - This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting Engineering and Manufacturing Development (EMD) tasks aimed at meeting validated requirements prior to full-rate production.		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		
Title: System Development and Demonstration	FY 2012	FY 2013
Articles:	2,025.446 0	1,795.102 0
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 2012 Accomplishments:		

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)				
		FY 2012	FY 2013	FY 2014
Continue SDD execution of the Air System, with Lockheed Martin including International Commonality Effort which includes airframe, vehicle systems, mission systems, autonomic logistics, systems engineering, and integrated test efforts. FY 2013 Plans: Continue SDD execution of Air System (Lockheed Martin), including International Commonality Effort. Efforts include airframe, vehicle systems, mission systems, autonomic logistics, systems engineering, and integrated test efforts. FY 2014 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 with planned completion of SDD in 2018.				
Title: F135 Propulsion System Articles: Description: SDD execution of the F135 Propulsion System (Pratt & Whitney) including International Commonality Effort; includes testing, autonomic logistics, integration & performing technology maturation efforts. FY 2012 Accomplishments: Continue SDD execution of the F135 Propulsion System with Pratt & Whitney that includes engine testing, autonomic logistics, integration and performing technology maturation efforts. FY 2013 Plans: Continue SDD execution of F135 Propulsion System (Pratt & Whitney), including engine testing, autonomic logistics, integration and performing technology maturation efforts. FY 2014 Plans: Continue SDD execution of the F135 Propulsion System with Pratt & Whitney that includes engine testing, autonomic logistics, integration and performing technology maturation efforts. Funding increase from FY13 to FY14 due to increase of total SDD contract value resulting from the total program baseline review.		277.559 0	359.618 0	399.749 0
Title: F136 Propulsion System Articles: Description: SDD execution of the F136 Propulsion System (General Electric/Rolls Royce) FY 2012 Accomplishments:		5.000 0	0.000	0.000

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Continued F136 Propulsion System Development effort by the GE/Rolls Royce Fighter Engine Team.				
Title: Systems Engineering (SE) Articles: Description: SDD SE including systems operations requirements analysis, program integration, requirements integration, and interoperability support. FY 2012 Accomplishments: Continue SDD Systems Engineering including systems operations requirements analysis, program integration, requirements integration, and interoperability support. FY 2013 Plans: Continue SDD SE, including systems operations requirements analysis, program integration, requirements integration, and interoperability support. Decrease in funds is due to across the board reduction between both services. FY 2014 Plans: Continue SDD SE, including systems operations requirements analysis, program integration, requirements integration, and interoperability support.		44.121 0	20.063 0	32.188 0
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 2012 Accomplishments: Continue government DT&E/OT in support of test aircraft. Continue flight sciences testing of Conventional Take Off and Landing (CTOL), Short Take Off Vertical Landing (STOVL), and Carrier Variant (CV) variants to expand the air vehicle envelope to support mission systems testing to include initial Block 2B. Elements of DT&E include preparation for flight testing, weapons integration testing, and component capabilities testing. FY 2013 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 (include initial Block 2B). Elements of DT&E include preparation for flight testing, weapons integration testing, and component capabilities testing. FY 2014 Plans:		152.406 0	374.258 0	381.713 0

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013
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 (include initial Block 2B). Elements of DT&E include preparation for flight testing, weapons integration testing, and component capabilities testing.			FY 2014
Title: Development Support Description: SDD Support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities. FY 2012 Accomplishments: Continue SDD support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities. FY 2013 Plans: Continue SDD support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities. FY 2014 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.		137.364 0	140.477 0
Title: Program Management Support Description: Management support services, civilian pay, travel, engineering technical services, and studies analyses and evaluations in support of program objectives. FY 2012 Accomplishments: Continue management support services, travel, engineering technical services, and studies analyses and evaluations in support of program objectives. FY 2013 Plans: Continue management support services, travel, engineering technical services, and studies analyses and evaluations in support of program objectives. Program Management Support increase is due to increase in Air Systems Nautical Command personnel. FY 2014 Plans:		93.608 0	106.759 0

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
Continue management support services, travel, engineering technical services, and studies analyses and evaluations in support of program objectives. Program Management Support decrease is due to across the board reduction between both services. Continue use of RDT&E for civilian pay (Air Force Only).												
Accomplishments/Planned Programs Subtotals										2,735.504	2,803.393	1,777.322
RDT&E,AF 0604800F										1,366.147	1,192.506	782.335
International Partner (SDD)										145.664	149.346	4.411
RDT&E,N (USMC) 0604800M/2262										617.695	737.149	482.823
Navy Subtotals										605.998	724.392	507.753
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
• RDT&E/0604800F: Joint Strike Fighter SDD	1,366.147	1,192.506	782.335		782.335	621.432	486.094	175.591	77.992	0.000	22,151.183	
• International: International Partner (SDD/FOD)	145.664	149.346	4.411		4.411	0.000	0.000	0.000	0.000	0.000	4,947.074	
• APAF/0207142F: F-35 Joint Strike Strike Fighter	3,289.615	3,124.302	3,060.770		3,060.770	3,921.250	5,188.155	5,250.891	5,850.477	150,878.750	189,907.778	
• RDT&E/0604800M/2262: JT Strike Fighter (JSF) - EMD	617.695	737.149	482.823		482.823	557.360	439.945	244.047	96.185	0.000	3,777.346	
• APN/0605B: F-35 Joint Strike Fighter STOVL Spares	23.430	99.006	41.707		41.707	131.216	94.193	66.423	127.264	0.000	583.239	
• APN/0147C: F-35 Joint Strike Fighter CV AP	109.066	65.180	94.766		94.766	132.063	185.904	246.779	190.141	3,364.677	5,219.579	
• APN/0605C: F-35 Joint Strike Fighter CV Spares	29.902	41.466	42.060		42.060	17.310	32.270	121.283	63.995	0.000	348.286	
• OPN/4265: Other Aviation Support Equipment	5.665	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	5.665	
• International 2: International Procurement	1,808.640	3,453.903	5,738.517		5,738.517	7,563.725	8,328.889	8,153.307	7,347.293	0.000	43,848.672	
• MC/0207142F: USAF MILCON	24.250	13.530	41.900		41.900	72.100	65.000	66.170	11.000	1,554.200	2,358.300	

UNCLASSIFIED

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APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT			
1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)				PE 0604800N: JT Strike Fighter (JSF) - EMD				2261: Joint Strike Fighter EMD			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• APAF/0204142F: USAF Modification Funding	0.000	147.995	157.777		157.777	245.462	223.683	252.141	256.680	0.000	1,288.348
• FOD/0207142F 675346: USAF Follow-on Development	0.000	8.117	23.000		23.000	104.866	132.174	229.912	300.050	0.000	798.119
• 0207142F/USAF: USAF Spares	149.556	181.833	103.582		103.582	235.183	271.211	235.251	342.508	0.000	1,971.440
• OPN/4267: Logistics Information System (ALIS)	0.000	3.826	4.827		4.827	4.554	4.604	5.729	5.830	43.558	72.928
• USAF/OPAF PE 27142F: OPAF	0.000	0.600	2.200		2.200	2.943	2.471	2.345	2.387	0.000	12.946
• APN/0592: F-35 STOVL Series	0.000	0.000	147.130		147.130	291.910	284.360	176.610	181.234	0.000	1,081.244
• APN/0593: F-35 CV Series	0.000	0.000	31.100		31.100	52.900	62.130	98.980	102.456	0.000	347.566
• RDT&E/0604800M/3350: F-35B Sustainment/Capability Enhancements	0.000	0.000	14.904		14.904	14.976	14.960	0.000	0.000	0.000	44.840
• RDT&E/0604800M/3351: F-35B Follow-on Development	0.000	0.000	14.904		14.904	19.968	60.837	114.965	172.906	0.000	383.580
• USAF SDD BP 653832: Deployability and Suitability Enhancements	0.000	17.800	34.000		34.000	33.000	30.000	0.000	0.000	0.000	114.800
• PAF/0207142F: JSF CTOL Advance Procurement	228.977	293.400	363.783		363.783	482.795	509.828	578.000	588.404	18,585.140	22,633.855
• DCA/0207142F 676011: Dual Capable Aircraft (DCA)	9.682	0.000	10.000		10.000	0.000	0.000	0.000	0.000	0.000	19.682
• APN/0147: F-35 Joint Strike Fighter CV	1,447.097	1,007.632	1,135.444		1,135.444	1,082.046	1,468.775	2,054.690	2,532.068	26,737.969	45,618.677
• APN/0152C: F-35 Joint Strike Fighter STOVL AP	117.229	106.199	103.195		103.195	143.887	203.057	226.014	136.732	4,095.291	5,755.765
• APN/0152: F-35 Joint Strike Fighter STOVL	1,141.906	1,404.737	1,267.260		1,267.260	1,209.937	1,461.056	2,125.324	2,814.618	29,224.711	41,203.070
• USN MILCON: USN JSF MILCON	144.400	117.600	209.000		209.000	320.500	151.700	48.100	0.000	830.600	2,259.300
• RDT&E/0604800N/3194: USN USRL	26.044	19.534	0.000		0.000	0.000	0.000	0.000	0.000	0.000	149.262

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C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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 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, multiple-year, fixed-price-type Performance Based Logistics contracts for sustainment will be executed 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 dated 31 December 2011: Performance Metrics reflect Key Program Performance data. 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											

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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 Mission Reliability Conventional Take Off and Landing (CTOL) Meets/Exceeds Tripwire Requirement CV Exceeds ORD Objective Short Take Off Vertical Landing (STOVL) USMC Meets/Exceeds Tripwire Requirement STOVL UK Meets/Exceeds Tripwire Requirement Sortie Generation Rate Conventional Take Off and Landing (CTOL) Meets/Exceeds Tripwire Requirement Carrier Variant (CV) Meets/Exceeds Tripwire Requirement STOVL USMC Meets/Exceeds Tripwire Requirement STOVL UK Meets/Exceeds Tripwire Requirement Logistics Footprints CTOL Meets/Exceeds Tripwire Requirement STOVL USMC Meets/Exceeds Tripwire Requirement Logistics Footprint- Volume CV Exceeds ORD Objective		

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
1319: Research, Development, Test & Evaluation, Navy	PE 0604800N: JT Strike Fighter (JSF) -	2261: Joint Strike Fighter EMD
BA 5: System Development & Demonstration (SDD)	EMD	
STOVL USMC Exceeds ORD Objective		
STOVL UK Meets/Exceeds Tripwire Requirement		
Logistics Footprint-Weight		
CV Exceeds ORD Objective		
STOVL USMC Exceeds ORD Objective		
STOVL UK Meets/Exceeds Tripwire Requirement		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy													DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE				PROJECT					
1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)						PE 0604800N: JT Strike Fighter (JSF) - EMD				2261: Joint Strike Fighter EMD					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Lockheed Martin - SDD	C/CPAF	Lockheed Martin:Ft. Worth, TX	27,393.270	2,025.446	Nov 2011	1,795.102	Dec 2012	761.153	Dec 2013	-		761.153	2,093.817	34,068.788	27,535.632
Lockheed Martin - IDIQ D0022	SS/IDIQ	Lockheed Martin:Ft. Worth, TX	11.572	0.000	Oct 2011	0.000		0.000		-		0.000	0.000	11.572	
Lockheed Martin - IDIQ D0009	SS/IDIQ	Lockheed Martin:Ft. Worth, TX	16.759	0.000		0.000		0.000		-		0.000	0.000	16.759	
Lockheed Martin - BOA	SS/BOA	Lockheed Martin:Ft. Worth, TX	3.511	0.000		0.000		0.000		-		0.000	0.000	3.511	
Pratt and Whitney - SDD	C/CPAF	Pratt and Whitney:Hartford, CT	6,906.621	277.559	Oct 2011	359.618	Oct 2012	399.749	Dec 2013	-		399.749	274.288	8,217.835	6,810.646
Pratt and Whitney - Close Out Contract C0132	C/CPFF	Pratt and Whitney:Hartford, CT	1.364	0.000		0.000		0.000		-		0.000	0.000	1.364	
Pratt and Whitney - Close Out Contract C0050	SS/CPFF	Pratt and Whitney:Hartford, CT	2.211	0.000		0.000		0.000		-		0.000	0.000	2.211	
Pratt and Whitney - BOA	SS/BOA	Pratt and Whitney:Hartford, CT	35.983	0.000		0.000		0.000		-		0.000	0.000	35.983	
Pratt and Whitney - IDIQ	SS/IDIQ	Pratt and Whitney:Hartford, CT	10.925	0.000		0.000		0.000		-		0.000	0.000	10.925	
General Electric - SDD	SS/CPAF	FET:Cincinnati, OH	2,155.573	5.000	Sep 2012	0.000		0.000		-		0.000	0.000	2,160.573	2,415.492
General Electric - IDIQ D0009	SS/IDIQ	FET:Cincinnati, OH	0.264	0.000		0.000		0.000		-		0.000	0.000	0.264	
General Electric - IDIQ D0074	SS/IDIQ	FET:Cincinnati, OH	4.175	0.000		0.000		0.000		-		0.000	0.000	4.175	
General Electric - F136 Transition	SS/CPFF	FET:Cincinnati, OH	100.400	0.000		0.000		0.000		-		0.000	0.000	100.400	
General Electric - BOA	SS/BOA	FET:Cincinnati, OH	5.548	0.000		0.000		0.000		-		0.000	0.000	5.548	
General Electric - Phase IIlb	SS/CPAF	FET:Cincinnati, OH	382.753	0.000		0.000		0.000		-		0.000	0.000	382.753	
Systems Engineering	Various	Various:Various	289.956	44.121	Oct 2012	20.063	Nov 2012	32.188	Nov 2013	-		32.188	99.915	486.243	
Subtotal			37,320.885	2,352.126		2,174.783		1,193.090		0.000		1,193.090	2,468.020	45,508.904	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>						R-1 ITEM NOMENCLATURE PE 0604800N: <i>JT Strike Fighter (JSF) - EMD</i>						PROJECT 2261: <i>Joint Strike Fighter EMD</i>			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
AFFTC/Eglin	Various	Eglin AFB:Eglin, FL	102.435	14.298	Oct 2011	15.340	Oct 2012	5.416	Nov 2013	-		5.416	8.672	146.161	
ASC/AFRL	Various	ASC/AFRL:Wright Patterson AFB, OH	55.685	8.762	Oct 2011	8.255	Oct 2012	2.525	Nov 2013	-		2.525	5.475	80.702	
Bolling AFB	Various	Bolling AFB:Washington, DC	6.775	0.000		0.000		0.000		-		0.000	0.000	6.775	
DMEA	Various	DMEA:Wright Patterson AFB, OH	5.630	0.000	Oct 2011	1.400	Nov 2012	0.000	Nov 2013	-		0.000	0.000	7.030	
ESC	Various	ESC:Hanscom AFB, MA	7.103	0.000	Oct 2011	0.511	Nov 2012	0.000	Nov 2013	-		0.000	0.000	7.614	
AEDC/Fuel	Various	Various:Various	143.754	0.000	Oct 2011	23.266	Nov 2012	0.000	Nov 2013	-		0.000	0.000	167.020	
NADEP Jacksonville	Various	NADEP:Jacksonville, FL	7.880	0.000	Oct 2011	1.757	Oct 2012	0.000	Nov 2013	-		0.000	0.000	9.637	
Miscellaneous	Various	Various:Various	226.696	51.771	Oct 2011	21.332	Nov 2012	37.488	Nov 2013	-		37.488	80.491	417.778	
NAWC China Lake	Various	NAWC WD:China Lake, CA	96.177	21.418	Oct 2011	24.833	Nov 2012	20.710	Nov 2013	-		20.710	51.927	215.065	
NAWC Patuxent River	Various	NAWC AD:Patuxent River, MD	299.158	41.115	Oct 2011	42.672	Nov 2012	29.621	Nov 2013	-		29.621	100.346	512.912	
NAWC TSD	Various	NAWC TSD:Orlando, FL	9.680	0.000	Oct 2011	0.771	Nov 2012	0.000	Nov 2013	-		0.000	0.000	10.451	
NSWC	Various	Various:Various	3.813	0.000	Oct 2011	0.308	Nov 2012	0.000	Nov 2013	-		0.000	0.000	4.121	
SPAWAR	Various	Various:Various	8.434	0.000	Oct 2011	0.032	Nov 2012	0.000	Nov 2013	-		0.000	0.000	8.466	
DFAS	Various	Various:Various	0.000	0.000	Oct 2011	0.000		0.000		-		0.000	0.000	0.000	
SBIR Technology Insertion Congressional Add	Various	Various:Various	24.187	0.000		0.000	Nov 2012	0.000		-		0.000	0.000	24.187	
Subtotal			997.407	137.364		140.477		95.760		0.000		95.760	246.911	1,617.919	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD				PROJECT 2261: Joint Strike Fighter EMD					
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
NAWC China Lake	Various	NAWC WD:China Lake, CA	26.630	7.581	Oct 2011	5.829	Nov 2012	3.820	Nov 2013	-		3.820	9.249	53.109	
NAWC Patuxent River	Various	NAWC AD:Patuxent River, MD	301.964	74.780	Oct 2011	115.186	Nov 2012	153.350	Nov 2013	-		153.350	318.568	963.848	
Edwards AFB	Various	Edwards AFB:Edwards AFB, CA	340.541	23.905	Oct 2011	82.500	Nov 2012	130.000	Nov 2013	-		130.000	263.000	839.946	
Other (including Classified PIDs)	Various	Various:Various	26.080	30.757	Oct 2011	56.449	Nov 2012	61.803	Nov 2013	-		61.803	137.987	313.076	
WEPS/Eglin	Various	WEPS/Eglin:Various	27.829	0.000	Oct 2011	0.000		0.000		-		0.000	0.000	27.829	
JTIC	Various	Various:Various	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	
OT-AFOTEC/AFFC	Various	OT-AFOTEC/ AFFTC:Kirkland AFB, NM/Eglin AFB, FL	93.604	15.383	Oct 2011	108.518	Nov 2012	32.740	Nov 2013	-		32.740	344.578	594.823	
OT-JITC/OPTEV	Various	OT-JITC/ OPTEC:Various	6.211	0.000	Oct 2011	5.776	Oct 2012	0.000	Nov 2013	-		0.000	0.100	12.087	
Subtotal			822.859	152.406		374.258		381.713		0.000		381.713	1,073.482	2,804.718	
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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	5.700	2.903	Oct 2011	3.049	Dec 2012	3.248	Dec 2013	-		3.248	1.681	16.581	18.731
Security Mantech	C/FP	Mantech:Arlington, VA	50.978	10.500	Oct 2011	11.046	Dec 2012	11.600	Dec 2013	-		11.600	12.484	96.608	94.474
Business Integ - Acq PA Cons	Various	Various:Various	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	
Autolog - SEIT DRC	C/CPFF	DRC:Arlington, VA	5.916	0.000		0.000		0.000		-		0.000	0.000	5.916	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE				PROJECT					
1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)						PE 0604800N: JT Strike Fighter (JSF) - EMD				2261: Joint Strike Fighter EMD					
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Chief Engineer - First Principles	C/CPFF	First Principles:Arlington, VA	3.016	1.988	Oct 2011	1.836	Nov 2012	1.928	Dec 2013	-		1.928	3.190	11.958	11.852
ASC Civilian Pay	Various	ASC CIVPAY:Wright Patterson, AFB, OH	0.000	14.564	Oct 2011	35.724	Oct 2012	18.586	Oct 2013	-		18.586	76.779	145.653	
Operations Wyle	C/CPFF	Wyle:Arlington, VA	90.871	20.774	Oct 2011	23.305	Dec 2012	24.884	Dec 2013	-		24.884	27.429	187.263	193.907
Operations SAFTAS	C/CPAF	Saftas:Arlington, VA	101.734	20.529	Oct 2011	12.867	Dec 2012	17.350	Dec 2013	-		17.350	33.778	186.258	192.329
Operations Stanley	C/CPAF	Stanley:Arlington, VA	159.020	22.350	Oct 2011	22.051	Oct 2012	24.604	Dec 2013	-		24.604	35.090	263.115	268.705
GE F136 Congressional Studies	Various	Various:Various	0.800	0.000		0.000		0.000		-		0.000	0.000	0.800	
Travel and Misc	Various	Various:Various	14.499	0.000	Oct 2011	3.997	Oct 2012	4.559	Nov 2013	-		4.559	17.652	40.707	
Subtotal			432.534	93.608		113.875		106.759		0.000		106.759	208.083	954.859	
Remarks															
Cumulative Award Fee earned in prior years for Stanley is 99%.															
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Subtotals			39,573.685	2,735.504		2,803.393		1,777.322		0.000		1,777.322	3,996.496	50,886.400	
RDT&E,AF 0604800F			-	1,366.147		1,192.506		782.335		-		782.335	-	-	-
International Partner (SDD)			-	145.664		149.346		4.411		-		4.411	-	-	-
RDT&E,N (USMC) 0604800M/2262			-	617.695		737.149		482.823		-		482.823	-	-	-
Project Cost Totals			39,573.685	605.998		724.392		507.753		0.000		507.753	3,996.496	50,886.400	
Remarks															
NOTE 1: Prior Years reflect \$17,449.086M USAF/\$16,874.804M USN/\$602.142 USMC /\$4,647.653M International/Total \$39,573.685M															
FY 2012 reflects \$1,366.147 USAF/\$605.998M USN/\$617.695M USMC/\$145.664M International/Total \$2,735.504M															
FY 2013 reflects \$1,192.506M USAF/\$724.392M USN/\$737.149M USMC/\$149.346M International/Total \$2,803.393M															
FY 2014 reflects \$782.335M USAF/\$507.753M USN/\$482.823M USMC/\$4.411M International/Total \$1,777.322M															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy							DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD			PROJECT 2261: Joint Strike Fighter EMD			
	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract	
NOTE 2:R-2A/R-3 displays total combined service(i.e. not Service-specific, including International partners, funding for JSF Engineering and Manufacturing Development (EMD) and JSF Deployability and Suitability Enhancements(D&S).										
JSF EMD Includes: USAF PE 0604800F BPAC 653831 USN PE 0604800N Project Unit 2261 USMC PE 0604800M Project Unit 2262 International Partners										
D&S Includes: USAF PE 0604800F BPAC 653832 USN PE 0604800N Project Unit 3352 USMC PE 0604800M Project Unit 3350										
JSF FoD Includes: UASF PE 0207142F BPAC 675346 USN FY13 PE 0604800N Project Unit 2261 USN FY14 PE 0604800N Project Unit 3353 USMC FY13 PE 0604800M Project Unit 2262 USMC FY14 PE 0604800M Project Unit 3351										

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

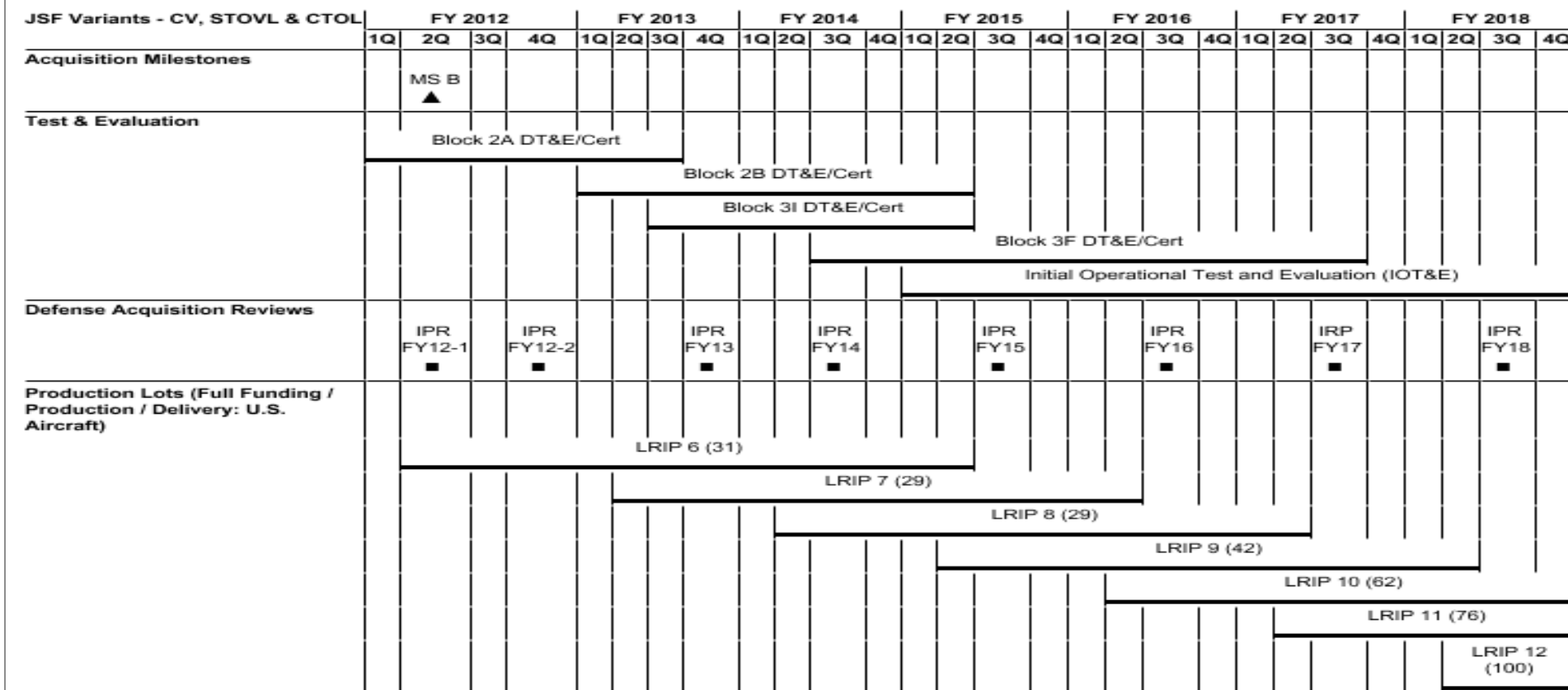
1319: Research, Development, Test & Evaluation, Navy
BA 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604800N: JT Strike Fighter (JSF) - EMD

PROJECT

2261: Joint Strike Fighter EMD



2014PB - 0604800N - 2261

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: *Research, Development, Test & Evaluation, Navy*
BA 5: *System Development & Demonstration (SDD)*

R-1 ITEM NOMENCLATURE

PE 0604800N: *JT Strike Fighter (JSF) - EMD*

PROJECT

2261: *Joint Strike Fighter EMD*

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>JSF Variants - CV, STOVL & CTOL</i>				
Acquisition Milestones: Milestone B	2	2012	2	2012
Test & Evaluation: Test and Evaluation: Block 2A DT&E/Cert	1	2012	3	2013
Test & Evaluation: Test and Evaluation: Block 2B DT&E/Cert	1	2013	2	2015
Test & Evaluation: Test and Evaluation: Block 3I DT&E/Cert	3	2013	2	2015
Test & Evaluation: Test and Evaluation: Block 3F DT&E/Cert	3	2014	3	2017
Test & Evaluation: Test and Evaluation: Initial Operational Test and Evaluation (IOT&E)	1	2015	4	2018
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-12-1	2	2012	2	2012
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-12-2	4	2012	4	2012
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-13	4	2013	4	2013
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-14	3	2014	3	2014
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-15	3	2015	3	2015
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-16	3	2016	3	2016
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-17	3	2017	3	2017
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-18	3	2018	3	2018

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD		PROJECT 2261: Joint Strike Fighter EMD
		Start		End
Events by Sub Project		Quarter	Year	Quarter Year
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 6 Full Funding / Production / Delivery		2	2012	2 2015
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 7 Full Funding / Production / Delivery		2	2013	2 2016
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 8 Full Funding / Production / Delivery		2	2014	2 2017
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 9 Full Funding / Production / Delivery		2	2015	2 2018
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 10 Full Funding / Production / Delivery		2	2016	4 2018
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 11 Full Funding / Production / Delivery		2	2017	4 2018
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LRIP 12 Full Funding / Production / Delivery		2	2018	4 2018

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD				PROJECT 3194: Joint Reprogramming Center			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
3194: Joint Reprogramming Center	103.684	26.044	19.534	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	149.262
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
The United States Reprogramming Laboratory (USRL)/Capability Concept project, previously referred to as Joint Strike Fighter Joint Reprogramming Center/Capability Concept is required to adequately develop and maintain Operational Sensor Engineering F-35(V) Mission Data to support United States Navy, United States Marine Corps, and United States Air Force multi-mission objectives. USRL will allow rapid operational response to threat changes. Funding is provided for:												
- Aircraft sensor function and combat identification												
- Conducting Offensive Identification/Jamming of potential threats												
- Providing self defense against surface threats, air, and missile threats												
- Detecting and identifying targets, to include moving land, air, and missile targets												
- Providing mission planning to ensure aircraft survivability												
- Conducting offensive operations against surface threats												
- Conducting sensor management and information processing												
- Software development for this requirement is funded through the F-35 Joint Strike Fighter System Development and Demonstration (SDD) baseline												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: USRL Build Up									13.544	6.734	0.000	
									Articles: 0	0		
FY 2012 Accomplishments:												
Provide funds to Lockheed Martin Aero in support of reprogramming techniques, development and verification capacity required to adjust to emergent threats, and validate system effectiveness to increase survivability of the weapon system. Perform USRL stand-up testing and acceptance tasks.												
FY 2013 Plans:												

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604800N: <i>JT Strike Fighter (JSF) - EMD</i>	PROJECT 3194: <i>Joint Reprogramming Center</i>
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013
Provide funds to Lockheed Martin Aero in support of reprogramming techniques, development and verification capacity required to adjust to emergent threats, and validate system effectiveness to increase survivability of the weapon system. Perform USRL stand-up testing and acceptance tasks.			
Title: Development Support		12.500	12.800
Articles:		0	0
FY 2012 Accomplishments: Continue SDD Systems Engineering (SE) including systems operations requirements analysis, program integration, requirements integration, and interoperability support of the United States Reprogramming Laboratory (USRL).			
FY 2013 Plans: Continue SDD SE including systems operations requirements analysis, program integration, requirements integration, and interoperability support of the USRL.			
Accomplishments/Planned Programs Subtotals		26.044	19.534
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
The Joint Reprogramming Capability (JRC) is a subset of JSF Program and falls within JSF acquisition strategy. JRC is needed to support scheduled Initial Operational Capability dates (and supporting test activity) for three JSF variants. To that end, a concept of operations is being developed for JRC to address Mission Data development, verification/validation/testing, and to merge service unique requirements into Joint processes/procedures. Previously envisioned as a single facility, JRC is now comprised of two distinct facilities under JRC concept. The USRL will support U.S. Joint Service reprogramming requirements; the Partner Reprogramming Laboratory will focus on International Partner areas of interest. Inter-Service collaboration will eliminate duplication of effort, maximize technology to improve configuration control, employ advance networks, and ensure implementation of an enterprise (single shared database) solution. By capitalizing on legacy platform synergy, operational mission data intellect, proven processes, and existing reprogramming center resources, this approach will improve efficiencies. A Joint Command reprogramming authority will determine/manage reprogramming priorities and implementation authority. The USRL Mission data development strategy is based upon an assessment of legacy systems, F-22 data, corporate expertise at Eglin Air Force Base/Naval Air Warfare Center Weapons Division, personnel, adjusted cost and schedule projections keyed to complexity of multi-variant and multi-mission aircraft; JSF-specific			

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604800N: <i>JT Strike Fighter (JSF) - EMD</i>	PROJECT 3194: <i>Joint Reprogramming Center</i>
utilization of multiple sources of non-sustained disparate, raw, intelligence data, development of threat assessment - metrics; and build-up of real-world scenarios for systems verification and validation. These efforts support Joint Strike Fighter (JSF) operational requirements, interoperability, and fratricide mitigation. Although the JSF Program has contracted with Lockheed Martin and Pratt & Whitney for SDD of JSF, contractors do not have laboratory space available or expertise to perform operational evaluation of lab and flight test data and support field recommendations to level needed. The complexity and magnitude of JSF mission data loads drives decision to utilize government and contractor resources to design and develop a Joint-Service reprogramming facility at Eglin Air Force Base. <u>E. Performance Metrics</u> United States Reprogramming Laboratory Stand-up - 3rd Quarter FY 12		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD				PROJECT 3194: Joint Reprogramming Center					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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 H/W Development	C/CPAF	Lockheed Martin:Ft. Worth, Texas	76.602	7.537	Oct 2011	0.000		0.000		-		0.000	0.000	84.139	84.139
Primary H/W Development Award Fee	C/CPAF	Lockheed Martin:Ft. Worth, Texas	1.252	2.507	Oct 2011	0.000		0.000		-		0.000	0.000	3.759	3.759
Lockheed Martin Various	Various	Lockheed Martin:Ft. Worth, Texas	11.828	3.500	Oct 2011	6.734	Oct 2012	0.000		-		0.000	0.000	22.062	22.062
Subtotal			89.682	13.544		6.734		0.000		0.000		0.000	0.000	109.960	109.960
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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	NAWCWD:China Lake California	14.002	12.500	Oct 2011	12.800	Oct 2012	0.000		-		0.000	0.000	39.302	
Subtotal			14.002	12.500		12.800		0.000		0.000		0.000	0.000	39.302	
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			103.684	26.044		19.534		0.000		0.000		0.000	0.000	149.262	
Remarks															
Subtotals and totals may not add due to rounding.															
Name PU 2012 2013 2014															
Navy 3194 \$26.044 \$19.534 \$0.000															

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy														DATE: April 2013															
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)										R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD										PROJECT 3194: Joint Reprogramming Center									
JSF United States Research Laboratory (USRL)	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				
	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	
USRL Implementation																													
USRL Standup			USRL STANDUP ▼																										
Verification and Validation Facility (VVF)																													
	Development																												
	Integration					ATP																							
						USRL IOC ▼																							
Electronic Warfare Verification Station (EWVS) and Reprogramming Facility (RF)																													
	Development																												
	Integration																												
		ATP																											
2014PB - 0604800N - 3194																													

2014PB - 0604800N - 3194

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD	PROJECT 3194: Joint Reprogramming Center	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
JSF United States Research Laboratoty (USRL)				
USRL Implementation: USRL Standup: USRL Standup	3	2012	3	2012
Verification and Validation Facility (VVF): Development	1	2012	1	2013
Verification and Validation Facility (VVF): Integration	1	2012	1	2013
Verification and Validation Facility (VVF): Acceptance Test Program (ATP)	2	2013	2	2013
Verification and Validation Facility (VVF): Initial Operational Capability	2	2013	2	2013
Electronic Warfare Verification Station (EWVS) and Reprogramming Facility (RF): Development	1	2012	3	2012
Electronic Warfare Verification Station (EWVS) and Reprogramming Facility (RF): Integration	1	2012	3	2012
Electronic Warfare Verification Station (EWVS) and Reprogramming Facility (RF): Acceptance Test Program (ATP)	2	2012	4	2012

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD				PROJECT 3352: F-35C Sustainment/Capability Enhancements			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
3352: F-35C Sustainment/ Capability Enhancements	0.000	0.000	0.000	14.992	-	14.992	14.997	14.991	0.000	0.000	0.000	44.980
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
NOTE: * This Navy Project Unit (3352) is a New Start in Fiscal Year 2014.												
R-2A cost shown above reflect service funding only.												
R-2A (section B)/R-3 displays total combined service (i.e. not Service-specific, including International partners, funding for JSF Engineering and Manufacturing Development (EMD) and JSF Deployability and Suitability Enhancements (D&S).												
JSF EMD Includes: USAF PE 0604800F BPAC 653831 USN PE 0604800N Project Unit 2261 USMC PE 0604800M Project Unit 2262 International Partners												
D&S Includes: USAF PE 64800F BPAC 653832 USN PE 0604800N Project Unit 3352 USMC PE 0604800M Project Unit 3350												
JSF FoD Includes: UASF PE 0207142F BPAC 675346 USN FY13 PE 0604800N Project Unit 2261 USN FY14 PE 0604800N Project Unit 3353 USMC FY13 PE 0604800M Project Unit 2262 USMC FY14 PE 0604800M Project Unit 3351												

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD	PROJECT 3352: F-35C Sustainment/Capability Enhancements		
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, 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 Fight Program (OFP) 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 USN and USMC is approximately equal.				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Title: Sustainment and Capability Enhancements		0.000	17.800	56.867
Articles:			0	0
Description: Develop and acquire enhancements to the suitability and maintainability of the air system such as LO maintenance enhancements, security architecture updates, and integrated training simulators.				
FY 2013 Plans:				
Initiate disciplined systems engineering, requirements decomposition, technical maturation and development of suitability and deployability enhancements.				
FY 2014 Plans:				
Conduct systems engineering, technical maturation, integration and test planning for suitability and deployability enhancements.				
Title: Development Test and Evaluation		0.000	0.000	0.639
Articles:				0
Description: Verification and testing for deployability and suitability enhancements				
FY 2014 Plans:				
Initiate government test and evaluation of capability enhancements for Deployable Autonomic Logistics Information System, and LO maintenance enhancements.				
Title: Development Support		0.000	0.000	6.390
Articles:				0
Description: Initiate SDD support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities.				
FY 2014 Plans:				

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD				PROJECT 3352: F-35C Sustainment/Capability Enhancements				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
Initiate development enhancement support for Deployable Autonomic Logistics Information System, decentralized maintenance capabilities, Low Observable maintance enhancements, security architecture updates, and integrated training simulators.												
Accomplishments/Planned Programs Subtotals										0.000	17.800	63.896
RDT&E,N (USMC) 0604800M/3350										0.000	0.000	14.904
RDT&E,AF 0604800F/653832										0.000	17.800	34.000
Navy Subtotals										0.000	0.000	14.992
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
• RDT&E/0604800F: Joint Strike Fighter	1,366.147	1,192.506	782.335		782.335	621.432	486.094	175.591	77.992	0.000	22,151.183	
• International: International Partner (SDD/FOD)	145.664	149.346	4.411		4.411	0.000	0.000	0.000	0.000	0.000	4,947.074	
• APAF/0207142F: F-35 Joint Strike Strike Fighter	3,289.615	3,124.302	3,060.770		3,060.770	3,921.250	5,188.155	5,250.891	5,850.477	150,878.750	189,907.778	
• RDT&E/0604800N/2262: JT Strike Fighter (JSF) - EMD	617.695	737.149	482.823		482.823	557.360	439.945	244.047	96.185	0.000	3,777.346	
• APN/0605B: F-35 Joint Strike Fighter STOVL Spares	23.430	99.006	41.707		41.707	131.216	94.193	66.423	127.264	0.000	583.239	
• APN/0147C: F-35 Joint Strike Fighter CV	109.066	65.180	94.766		94.766	132.063	185.904	246.779	190.141	3,364.677	5,219.579	
• APN/0605C: F-35 Joint Strike Fighter CV Spares	29.902	41.466	42.060		42.060	17.310	32.270	121.283	63.995	0.000	348.286	
• OPN/4265: Other Aviation Support Equipment	5.665	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	5.665	
• International 2: International Procurement	1,808.640	3,453.903	5,738.517		5,738.517	7,563.725	8,328.889	8,153.307	7,347.293	0.000	43,848.672	
• MC/0207142F: USAF MILCON	24.250	13.530	41.900		41.900	72.100	65.000	66.170	11.000	1,554.200	2,358.300	
• APAF/0204142F: USAF Modification Funding	0.000	147.995	157.777		157.777	245.462	223.683	252.141	256.680	0.000	1,288.348	

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy									DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD				PROJECT 3352: F-35C Sustainment/Capability Enhancements			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• FOD/0207142F: USAF Follow-on Development	0.000	8.117	23.000		23.000	104.866	132.174	229.912	300.050	0.000	798.119
• 0207142F/USAF: USAF Spares	149.556	181.833	103.582		103.582	235.183	271.211	235.251	342.508	0.000	1,971.440
• OPN/4267: Autonomic Logistics Information System (ALIS)	0.000	3.826	4.827		4.827	4.554	4.604	5.729	5.830	43.558	72.928
• USAF/OPAF PE 27142F: OPAF	0.000	0.600	2.200		2.200	2.943	2.471	2.345	2.387	0.000	12.946
• APN/0592: F-35 STOVL Series	0.000	0.000	147.130		147.130	291.910	284.360	176.610	181.234	0.000	1,081.244
• APN/0593: F-35 CV Series	0.000	0.000	31.100		31.100	52.900	62.130	98.980	102.456	0.000	347.566
• RDT&E/0604800M/3350: F-35C Sustainment/Capability Enhancements	0.000	0.000	14.904		14.904	14.976	14.960	0.000	0.000	0.000	44.840
• RDT&E/0604800M/3351: F-35C Follow-on Development	0.000	0.000	14.904		14.904	19.968	60.837	114.965	172.906	0.000	383.580
• USAF SDD BP 653832: Deployability and Suitability Enhancements	0.000	17.800	34.000		34.000	33.000	30.000	0.000	0.000	0.000	114.800
• PAF/0207142F: CTOL Advance Procurement	228.977	293.400	363.783		363.783	482.795	509.828	578.000	588.404	18,585.140	22,633.855
• DCA/0207142F: Dual Capable Aircraft (DCA)	9.682	0.000	10.000		10.000	0.000	0.000	0.000	0.000	0.000	19.682
• APN/0147: F-35 Joint Strike Fighter CV	1,447.097	1,007.632	1,135.444		1,135.444	1,082.046	1,468.775	2,054.690	2,532.068	26,737.969	45,618.677
• APN PE BP0152C: Advance Procurement (STOVL) BP0152C	117.229	106.199	103.195		103.195	143.887	203.057	226.014	136.732	4,095.291	5,755.765
• APN PE BP0152: Advance Procurement (STOVL) BP0152	1,141.906	1,404.737	1,267.260		1,267.260	1,209.937	1,461.056	2,125.324	2,814.618	29,224.711	41,203.070
• USN MILCON: USN JSF MILCON	144.400	117.600	209.000		209.000	320.500	151.700	48.100	0.000	830.600	2,259.300
• USN RDT&E USRL: USN USRL	26.044	19.534	0.000		0.000	0.000	0.000	0.000	0.000	0.000	149.262
Remarks											

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604800N: <i>JT Strike Fighter (JSF) - EMD</i>	PROJECT 3352: <i>F-35C Sustainment/Capability Enhancements</i>
<u>D. Acquisition Strategy</u> Implement JSF Joint Executive Steering Board/Configuration Steering Board approved enhancements through existing contracts using the engineering change proposal process. When appropriate, new cost type contracts may be established. <u>E. Performance Metrics</u> The following are the key performance parameters from the F-35 Selected Acquisition Report dated 31 December 2011: Performance Metrics reflect Key Program Performance data. 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 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 Mission Reliability Conventional Take Off and Landing (CTOL) Meets/Exceeds Tripwire Requirement CV Exceeds ORD Objective Short Take Off Vertical Landing (STOVL) USMC Meets/Exceeds Tripwire Requirement STOVL UK Meets/Exceeds Tripwire Requirement		

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604800N: <i>JT Strike Fighter (JSF) - EMD</i>	PROJECT 3352: <i>F-35C Sustainment/Capability Enhancements</i>
Sortie Generation Rate Conventional Take Off and Landing (CTOL) Meets/Exceeds Tripwire Requirement Carrier Variant (CV) Meets/Exceeds Tripwire Requirement STOVL USMC Meets/Exceeds Tripwire Requirement STOVL UK Meets/Exceeds Tripwire Requirement Logistics Footprints CTOL Meets/Exceeds Tripwire Requirement STOVL USMC Meets/Exceeds Tripwire Requirement Logistics Footprint- Volume CV Exceeds ORD Objective STOVL USMC Exceeds ORD Objective STOVL UK Meets/Exceeds Tripwire Requirement Logistics Footprint-Weight CV Exceeds ORD Objective STOVL USMC Exceeds ORD Objective STOVL UK Meets/Exceeds Tripwire Requirement		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD						PROJECT 3352: F-35C Sustainment/Capability Enhancements			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Prime LM Deployability Suitability	SS/CPAF	Lockheed Martin:Ft. Worth, TX	0.000	0.000		17.800	Jul 2013	56.867	Dec 2013	-		56.867	109.461	184.128	184.234
Subtotal			0.000	0.000		17.800		56.867		0.000		56.867	109.461	184.128	184.234
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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	TBD	Various:Various	0.000	0.000		0.000		6.390	Dec 2013	-		6.390	12.299	18.689	18.700
Subtotal			0.000	0.000		0.000		6.390		0.000		6.390	12.299	18.689	18.700
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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	0.000		0.000		0.639	Dec 2013	-		0.639	1.230	1.869	
Subtotal			0.000	0.000		0.000		0.639		0.000		0.639	1.230	1.869	
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Subtotals			0.000	0.000		17.800		63.896		0.000		63.896	122.990	204.686	
RDT&E,N (USMC) 0604800M/3350			-	0.000		0.000		14.904		-		14.904	-	-	-
RDT&E,AF 0604800F/653832			-	0.000		17.800		34.000		-		34.000	-	-	-
Project Cost Totals			0.000	0.000		0.000		14.992		0.000		14.992	122.990	204.686	
Remarks NOTE: R-2A cost shown above reflect service funding only.															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy							DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD			PROJECT 3352: F-35C Sustainment/Capability Enhancements		
	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
R-2A (section B)/R-3 displays total combined service(i.e. not Service-specific, including International partners, funding for JSF Engineering and Manufacturing Development (EMD) and JSF Deployability and Suitability Enhancements(D&S). JSF EMD Includes: USAF PE 0604800F BPAC 653831 USN PE 0604800N Project Unit 2261 USMC PE 0604800M Project Unit 2262 International Partners D&S Includes: USAF PE 0604800F BPAC 653832 USN PE 0604800N Project Unit 3352 USMC PE 0604800M Project Unit 3350 JSF FoD Includes: USAF PE 0207142F BPAC 675346 USN PE 0608400N Project Unit 3353 USMC PE 0608400M Project Unit 3351									

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PE 0604800N: *JT Strike Fighter (JSF) - EMD*
Navy

R-1 Line #128

R-1 ITEM NOMENCLATURE

PE 0604800N: *JT Strike Fighter (JSF) - EMD*

3352: *F-35C Sustainment/Capability Enhancements*

PE 0604800N: *JT Strike Fighter (JSF) - EMD*
Navy

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604800N: <i>JT Strike Fighter (JSF) - EMD</i>	PROJECT 3352: <i>F-35C Sustainment/Capability Enhancements</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 3352</i>				
D&S: D&S Contract Award	3	2013	3	2013
D&S: D&S Deployment and Suitability Enhancements	3	2013	4	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD				PROJECT 3353: F-35C Follow-on Development			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
3353: F-35C Follow-on Development	0.000	0.000	0.000	11.442	-	11.442	19.996	60.963	115.057	173.276	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
NOTE: * This Navy Project Unit (3353) is a New Start in Fiscal Year 2014.												
R-2A cost shown above reflects service funding only.												
R-2A (sction B)/R-3 displays combined service funding for JSF Follow-on Development.												
JSF FoD Includes: USAF PE 0207142F BPAC 675346 FY13: USN PE 0604800N Project Unit 2261 FY14: USN PE 0604800N Project Unit 3353 FY13: USMC PE 0604800M Project Unit 2262 FY14: USMC PE 0604800M Project Unit 3351												
JSF FoD Includes: USAF PE 0207142F BPAC 675346 USN PE 0608400N Project Unit 3353 USMC PE 0608400M Project Unit 3351												
JSF Dual Capability Aircraft (DCA) Includes: USAF PE 0207142F BPAC 676011												
A. Mission Description and Budget Item Justification												
F-35 Follow-on Development (FoD) provides continuing incremental upgrades of the three F-35 variants and associated ground equipment. The FoD acquisition strategy is based upon incremental development of capabilities with each increment consisting of two development cycles. FoD capability planning includes an efficient transition from F-35 SDD to Follow-on Development. As SDD development activities ramp down through FY17, the FoD program will assume responsibility for new												

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD	PROJECT 3353: F-35C Follow-on Development		
development and the maintenance of associated developmental infrastructure. FoD capability planning currently includes Milestone B in late FY15 to enable Block 4 Engineering and Manufacturing Development efforts from FY16 through FY18, followed by DT and OT testing in 2020 with delivery of capabilities in early 2021. A Materiel Development Decision (MDD) formally approving FoD Material Solution Analysis and Technology Development/Risk Reduction phases for technology acquisition is planned in late FY13.				
This program is in Budget Activity 5, Operational System Development, because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Title: Air Vehicle Follow-on Development (Capability Planning) Articles: Description: FY2014 capability planning effort will focus on mission requirements analysis, early engineering, risk reduction and preparations leading to formal acquisition approval of Block 4. Program planning will consist of engineering and development support for defining, managing and acquisition of capability enhancements required to address threats indicated in the Electronic Warfare ICD, the Fifth Generation Fighter Modernization ICD and as further defined in the F-35 Follow-on Development Increment 1 (Block 4) Capability Development Document (CDD) (Note: CDD approval planned in FY-14). FY 2012 Accomplishments: JSF Dual Capability Aircraft efforts. FY 2013 Plans: Early capability planning, requirements and alternatives analysis, and US and partner investment planning in accordance with the Production, Sustainment and Follow On Development Memorandum of Agreement. FY 2014 Plans: Requirements analysis and technical requirements development, systems engineering, and technical planning. A formal Systems Requirements Review is planned in FY14.		9.682 0	16.834 0	34.034 0
Title: Developmental Test and Evaluation Articles: Description: Initiate Laboratory and Test Aircraft Upgrade and other test planning activities required for Block 4 and later development , integration, test and evaluation. Changes are needed to support development and evaluation of improvements driven by changes in threat and as identified in the Electronic Warfare ICD and the Fith Generation Fighter Modernization ICD. FY 2014 Plans:		0.000	0.000	17.100 0

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD	PROJECT 3353: F-35C Follow-on Development		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Near term funding will support infrastructure upgrades required for development of enhanced capabilities. This includes replacement of engines and other life limited components on DT aircraft that will be at end of life upon completion of SDD, as well as laboratory upgrades to support development and verification of capabilities to address advanced threats.				
Title: Development Support Articles: Description: Technical and Analytical Support FY 2014 Plans: Initiate development support for defining, managing and acquiring the envisioned F-35C capability enhancements identified in approved requirements documents.		0.000	0.000	4.5820
Title: Management Services Articles: Description: Includes management support, travel, engineering technical services, acquisition planning, studies and analysis in support of FoD Program objectives. FY 2014 Plans: Acquisition and program planning, documentation development to include all regulatory and statutory requirements required in preparation for Milestone B approval in late FY2015 or early FY16 to begin FoD Increment 1 - Block 4 E&MD		0.000	0.000	3.6300
Accomplishments/Planned Programs Subtotals		9.682	16.834	59.346
RDT&E,AF 0207142F (FOD)		0.000	8.117	23.000
RDT&E,N (USMC) 0604800M/3351		0.000	0.000	14.904
RDT&E,AF 0207142F (DCA)		9.682	0.000	10.000
RDT&E,N (USMC) 0604800M/2262		-	4.358	-
RDT&E,N (USN) 0604800N/2261		-	4.359	-
Navy Subtotals		0.000	-0.000	11.442

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy									DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD				PROJECT 3353: F-35C Follow-on Development			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• RDT&E/0604800F: Joint Strike Fighter	1,366.147	1,192.506	782.335		782.335	621.432	486.094	175.591	77.992	0.000	22,151.183
• International: International Partner (SDD/FOD)	145.664	149.346	4.411		4.411	0.000	0.000	0.000	0.000	0.000	4,947.074
• APAF/0207142F: F-35 Joint Strike Strike Fighter	3,289.615	3,124.302	3,060.770		3,060.770	3,921.250	5,188.155	5,250.891	5,850.477	150,878.750	189,907.778
• RDT&E/0604800N/2262: JT Strike Fighter (JSF) - EMD	617.695	737.149	482.823		482.823	557.360	439.945	244.047	96.185	0.000	3,777.346
• APN/0605B: F-35 Joint Strike Fighter STOVL Spares	23.430	99.006	41.707		41.707	131.216	94.193	66.423	127.264	0.000	583.239
• APN/0147C: F-35 Joint Strike Fighter CV	109.066	65.180	94.766		94.766	132.063	185.904	246.779	190.141	3,364.677	5,219.579
• APN/0605C: F-35 Joint Strike Fighter CV Spares	29.902	41.466	42.060		42.060	17.310	32.270	121.283	63.995	0.000	348.286
• OPN/4265: Aviation Support Equipment	5.665	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	5.665
• International 2: International Procurement	1,808.640	3,453.903	5,738.517		5,738.517	7,563.725	8,328.889	8,153.307	7,347.293	0.000	43,848.672
• MC/0207142F: USAF MILCON	24.250	13.530	41.900		41.900	72.100	65.000	66.170	11.000	1,554.200	2,358.300
• APAF/0204142F: USAF Modification Funding	0.000	147.995	157.777		157.777	245.462	223.683	252.141	256.680	0.000	1,288.348
• FOD/0207142F: USAF Follow-on Development	0.000	8.117	23.000		23.000	104.866	132.174	229.912	300.050	0.000	798.119
• 0207142F/USAF: USAF Spares	149.556	181.833	103.582		103.582	235.183	271.211	235.251	342.508	0.000	1,971.440
• OPN/4267: Autonomic Logistics Information System (ALIS)	0.000	3.826	4.827		4.827	4.554	4.604	5.729	5.830	43.558	72.928
• USAF/OPAF PE 27142F: OPAF	0.000	0.600	2.200		2.200	2.943	2.471	2.345	2.387	0.000	12.946
• APN/0592: F-35 STOVL Series	0.000	0.000	147.130		147.130	291.910	284.360	176.610	181.234	0.000	1,081.244
• APN/0593: F-35 CV Series	0.000	0.000	31.100		31.100	52.900	62.130	98.980	102.456	0.000	347.566
• RDT&E/0604800M/3350: F-35C Sustainment/Capability Enhancements	0.000	0.000	14.904		14.904	14.976	14.960	0.000	0.000	0.000	44.840

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy									DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD				PROJECT 3353: F-35C Follow-on Development			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• RDT&E/0604800M/3351: F-35C Follow-on Development	0.000	0.000	14.904		14.904	19.968	60.837	114.965	172.906	0.000	383.580
• USAF SDD BP 653832: Deployability and Suitability Enhancements	0.000	17.800	34.000		34.000	33.000	30.000	0.000	0.000	0.000	114.800
• PAF/0207142F: JSF CTOL Advance Procurement	228.977	293.400	363.783		363.783	482.795	509.828	578.000	588.404	18,585.140	22,633.855
• DCA/0207142F : Dual Capable Aircraft (DCA)	9.682	0.000	10.000		10.000	0.000	0.000	0.000	0.000	0.000	19.682
• APN/0147: F-35 Joint Strike Fighter CV	1,447.097	1,007.632	1,135.444		1,135.444	1,082.046	1,468.775	2,054.690	2,532.068	26,737.969	45,618.677
• APN PE BP0152C: Advance Procurement (STOVL) BP0152C	117.229	106.199	103.195		103.195	143.887	203.057	226.014	136.732	4,095.291	5,755.765
• APN PE BP0152: Advance Procurement (STOVL) BP0152	1,141.906	1,404.737	1,267.260		1,267.260	1,209.937	1,461.056	2,125.324	2,814.618	29,224.711	41,203.070
• USN MILCON: USN JSF MILCON	144.400	117.600	209.000		209.000	320.500	151.700	48.100	0.000	830.600	2,259.300
• USN RDT&E USRL: USN USRL	26.044	19.534	0.000		0.000	0.000	0.000	0.000	0.000	0.000	149.262
Remarks											
D. Acquisition Strategy											
To enable the ability to adjust to potential discrepancies discovered during SDD Block 3 Test and Evaluation, the engineering and development planning support for Follow-on Development will be procured under a cost type contract. A fee provision will be used to target and motivate contractor performance. A separate Basic Ordering Agreement or Indefinite Quantity/Indefinite Delivery contract is planned to provide a long term approach to upgrading and maintaining laboratories and test aircraft. Both Development Support and Management Services will primarily use CPFF Delivery Orders.											
E. Performance Metrics											
Overall Follow-on Development Performance Metrics will reflect Key Program Performance data established in the F-35 Follow-on Development Increment 1 Capability Development Document (CDD) (Planned for completion and approval in 2014.)											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>						R-1 ITEM NOMENCLATURE PE 0604800N: <i>JT Strike Fighter (JSF) - EMD</i>						PROJECT 3353: <i>F-35C Follow-on Development</i>			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Requirements Analysis, Systems Engineering and Risk Reduction	SS/CPFF	Lockheed Martin:Ft. Worth, TX	0.000	0.000		16.834	Aug 2013	24.034	Mar 2014	-		24.034	0.000	40.868	
Lockheed Martin - DCA Integration	SS/CPFF	Lockheed Martin:Ft. Worth, TX	0.000	9.682	Mar 2013	0.000		10.000	Mar 2014	-		10.000	0.000	19.682	
Subtotal			0.000	9.682		16.834		34.034		0.000		34.034	0.000	60.550	
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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	SS/T&M	Lockheed Martin:Ft. Worth, TX	0.000	0.000		0.000		4.582	Mar 2014	-		4.582	0.000	4.582	
Subtotal			0.000	0.000		0.000		4.582		0.000		4.582	0.000	4.582	
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Laboratory and Test Aircraft Infrastructure	TBD	Lockheed Martin:Ft. Worth, TX	0.000	0.000		0.000		17.100	Jan 2014	-		17.100	0.000	17.100	
Subtotal			0.000	0.000		0.000		17.100		0.000		17.100	0.000	17.100	
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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 Milestone Preparations	Various	Various:Various	0.000	0.000		0.000		3.630	Nov 2013	-		3.630	0.000	3.630	
Subtotal			0.000	0.000		0.000		3.630		0.000		3.630	0.000	3.630	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy											DATE: April 2013				
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD				PROJECT 3353: F-35C Follow-on Development					
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Remarks Cost to Complete, Total Cost, and Target Value are Continuing. When program baseline is established and development contract awarded, values will be established.															
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Subtotals			0.000	9.682		16.834		59.346		0.000		59.346	0.000	85.862	
RDT&E,AF 0207142F (FOD)			-	0.000		8.117		23.000		-		23.000	-	-	-
RDT&E,N (USMC) 0604800M/3351			-	0.000		0.000		14.904		-		14.904	-	-	-
RDT&E,AF 0207142F (DCA)			-	9.682		0.000		10.000		-		10.000	-	-	-
RDT&E,N (USMC) 0604800M/2262			-	-		4.358		-		-		-	-	-	-
RDT&E,N (USN) 0604800N/2261			-	-		4.359		-		-		-	-	-	-
Project Cost Totals			0.000	0.000		-0.000		11.442		0.000		11.442	0.000	85.862	
Remarks NOTE: R-2A cost shown above reflect service funding only. R-2A (section B)/R-3 displays total combined service(i.e. not Service-specific, including International partners, funding for JSF Engineering and Manufacturing Development (EMD) and JSF Deployability and Suitability Enhancements(D&S)). JSF EMD Includes: USAF PE 0604800F BPAC 653831 USN PE 0604800N Project Unit 2261 USMC PE 0604800M Project Unit 2262 International Partners D&S Includes: USAF PE 0604800F BPAC 653832 USN PE 0604800N Project Unit 3352 USMC PE 0604800M Project Unit 3350 JSF FoD Includes: USAF PE 0207142F BPAC 675346															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy							DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604800N: JT Strike Fighter (JSF) - EMD			PROJECT 3353: F-35C Follow-on Development			
	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract	
USN PE 0608400N Project Unit 3353 USMC PE 0608400M Project Unit 3351 JSF Dual Capability Aircraft (DCA) Includes: USAF PE 0207142F BPAC 676011										

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy
BA 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604800N: JT Strike Fighter (JSF) - EMD

PROJECT

3353: F-35C Follow-on Development

Proj 3353	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
	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
Block 4																												
									Block 4A RR																			

Block 4A RR

Block 4A EMD

Block 4A
DT/OT

Block 4B RR

Block 4B EMD

2014PB - 0604800N - 3353

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>System Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604800N: <i>JT Strike Fighter (JSF) - EMD</i>	PROJECT 3353: <i>F-35C Follow-on Development</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 3353</i>				
Block 4: Block 4A Risk Reduction	1	2014	3	2015
Block 4: Block 4A Engineering and Manufacturing Development	3	2015	1	2018
Block 4: Block 4A DT/OT	3	2018	4	2018
Block 4: Block 4B Risk Reduction	2	2014	4	2017
Block 4: Block 4B Risk Engineering and Manufacturing Development	4	2017	4	2018