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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604800M: (U)Joint Strike Fighter (JSF) - EMD							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	667.916	0.000	667.916	594.004	529.826	375.925	134.707	Continuing	Continuing
2262: Joint Strike Fighter EMD STOVL	0.000	0.000	667.916	0.000	667.916	594.004	529.826	375.925	134.707	Continuing	Continuing

Note
This Program Element continues development efforts budgeted in program element 0603800N prior to FY 2002. Effective with the PB11 budget submission, F-35B (USMC) and F-35C (USN) budgets are reported against separate budget line items and program elements. Starting in FY11, F-35B budget is reported against the newly created program element 0604800M. The F-35C USN budget continues to report under program element 0604800N.

A. Mission Description and Budget Item Justification
The F-35 Lightning II Joint Strike Fighter program will develop and field a family of aircraft that meets the needs of the USN, USAF, USMC, and allies, with maximum commonality among the variants, consistent with National Disclosure Policy, to minimize life cycle costs. This is a joint program with no executive service. Navy and Air Force each provide approximately equal shares of annual funding to the program. The United Kingdom, 7 other International countries, and 3 Foreign Military Sales cases are participants in the JSF Program. Within the Navy contribution is an equal contribuatuion of annual funding by the USN and USMC. This funding profile cite against this Program Element reflects USMC F-35B Short Take-Off and Vertical Landing (STOVL) budgetary information, only.

Funding under this USMC project unit supports core F-35 System Design and Demonstration (SDD) objectives and aircraft Follow-on Development efforts.

The SDD Budget funds a total quantity of 19 RDT&E test articles to include 6 ground test articles and 13 flight test articles for Navy and Air Force use. The following fiscal year phasing of the flight test aircraft reflects the scheduled first flight of each asset:
FY07: 1 flight test article
FY08: 1 flight test article
FY09: 1 flight test article
FY10: 10 flight test articles

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APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
1319: Research, Development, Test & Evaluation, Navy		PE 0604800M: (U)Joint Strike Fighter (JSF) - EMD			
BA 5: Development & Demonstration (SDD)					
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	667.916	0.000	667.916
Total Adjustments	0.000	0.000	667.916	0.000	667.916
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Program Adjustments	0.000	0.000	667.916	0.000	667.916
Change Summary Explanation					
Technical: Technical: F-35 Block IV Follow-on Development starts in FY11 to continue the evolutionary approach of SDD by providing capability enhancements through a combined incremental methodology. The Joint Capabilities Integration and Development System (JCIDS) and Defense Acquisition System (DAS) shall provide the framework and basis for defining, managing, and acquiring the envisioned F-35 enhancements.					
Schedule: Delay in manufacturing and delivery of test aircraft resulted in a 1-2 quarter delay to the F-35A Optimized Flight and F-35C First Flight. Note: Additional schedule revision is in process.					
FY11 from previous President's Budget is shown as zero because no FY11-15 data was presented in President's Budget 2010.					

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604800M: (U)Joint Strike Fighter (JSF) - EMD				PROJECT 2262: Joint Strike Fighter EMD STOVL			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
2262: Joint Strike Fighter EMD STOVL	0.000	0.000	667.916	0.000	667.916	594.004	529.826	375.925	134.707	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
Note This Program Element continues development efforts budgeted in program element 0603800N prior to FY 2002. The SDD Budget funds a total quantity of 19 RDT&E test articles to include 6 ground test articles and 13 flight test articles for Navy and Air Force use. The following fiscal year phasing of the flight test aircraft reflects the scheduled first flight of each asset: FY07: 1 flight test article FY08: 1 flight test article FY09: 1 flight test article FY10: 10 flight test articles											
A. Mission Description and Budget Item Justification The F-35 Lightning II (Joint Strike Fighter) program will develop and field a family of aircraft that meets the needs of the USN, USAF, USMC, and allies, with maximum commonality among the variants, consistent with National Disclosure Policy, to minimize life cycle costs. This is a joint program with no executive service. Navy and Air Force each provide approximately equal shares of annual funding to the program. The United Kingdom, 7 other International countries, and 3 Foreign Military Sales cases are participants in the JSF Program. The following pages combine Navy, Air Force, international, and Congressional Add funding. Funding under this USN project unit supports core F-35 System Design and Demonstration (SDD) objectives and aircraft Follow-on Development efforts. The following table presents the total dollars distributed in section B of this R-2A. This has been done to give a more accurate picture of the total dollars being spent on each task.											
Name	PU	FY 2009	FY 2010	FY 2011							
Navy	2261	1,459.762	1,704.308	667.915							
Air Force	3831	1,743.569	2,072.897	1,043.610							

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy					DATE: February 2010	
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1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)			PE 0604800M: (U)Joint Strike Fighter (JSF) - EMD		2262: Joint Strike Fighter EMD STOVL	
Marine Corps	2262		667.916			
International		244.584	109.511	91.386		
Total RDT&E Funding addressed in PU 2262 Exhibits: 3,447.915 3,886.716 2,470.827						
Name	PU	FY 2009	FY 2010	FY 2011		
Navy	3194	28.816	31.813	39.876		
Navy Cong Add	2261A	214.418	214.108			
Navy Cong Add	9D99A	1.596				
F-35 RDT&E Funding associated with PE 0604800M under separate PUs: 244.830 245.921 39.876						
Total F-35 funding associated with PEs 0604800N, 0604800F and 0604800M: 3,692.745 4,132.637 2,510.703						
B. Accomplishments/Planned Program (\$ in Millions)						
					FY 2009	FY 2010
					FY 2011 Base	FY 2011 OCO
					FY 2011 Total	
System Development & Demonstration					2,452.708	2,445.453
FY 2009 Accomplishments: Continued System Development and Demonstration (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.					1,465.181	0.000
						1,465.181

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B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: Continue System Development and Demonstration (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 2011 Base Plans: Continue System Development and Demonstration (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					
F135 Propulsion System FY 2009 Accomplishments: Continued SDD execution of the F135 Propulsion System with Pratt & Whitney to include engine testing, autonomic logistics, integration and performing technology maturation efforts. FY 2010 Plans: Continue SDD execution of the F135 Propulsion System with Pratt & Whitney to include engine testing, autonomic logistics, integration and performing technology maturation efforts. FY 2011 Base Plans: Continue SDD execution of the F135 Propulsion System with Pratt & Whitney to include engine testing, autonomic logistics, integration and performing technology maturation efforts.	507.209	636.978	211.828	0.000	211.828
F136 Propulsion System FY 2009 Accomplishments: Congressional Add funding for the F136 Propulsion System appears in the PU: 9999 section of the PB 2011 budget submission.	425.390	429.108	0.000	0.000	0.000

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: Congressional Add funding for continued F136 Propulsion System development appears in the PU: 9999 section of the PB 2011 budget submission.						
System Engineering FY 2009 Accomplishments: Continued SDD Systems Engineering including systems operations requirements analysis, program integration, requirements integration, and interoperability support. FY 2010 Plans: Continue SDD Systems Engineering including systems operations requirements analysis, program integration, requirements integration, and interoperability support. FY 2011 Base Plans: Continue SDD Systems Engineering including systems operations requirements analysis, program integration, requirements integration, and interoperability support.		39.531	42.537	49.752	0.000	49.752
Development Test and Evaluation FY 2009 Accomplishments: Continued Government Development Test and Evaluation (DT&E) continues in support of first flight of test aircraft. Elements of DT&E include preparation for flight testing, weapons integration testing, and Program Introduction Documents.		101.538	311.926	404.103	0.000	404.103

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: Continue Government Development Test and Evaluation (DT&E)/Operational Testing continues in support of first flight of test aircraft. Elements of DT&E include preparation for flight testing, weapons integration testing, and Program Introduction Documents.						
FY 2011 Base Plans: Continue Government Development Test and Evaluation (DT&E)/Operational Testing continues in support of first flight of test aircraft. Elements of DT&E include preparation for flight testing, weapons integration testing, and Program Introduction Documents.						
Development Support FY 2009 Accomplishments: Continued SDD Support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities.		100.211	164.758	207.393	0.000	207.393
FY 2010 Plans: Continue SDD Support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities.						
FY 2011 Base Plans: Continue SDD Support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities.						

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B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
Program Management FY 2009 Accomplishments: Continued management support services, travel, engineering technical services, and studies analyses and evaluations in support of program objectives. FY 2010 Plans: Continue management support services, travel, engineering technical services, and studies analyses and evaluations in support of program objectives. FY 2011 Base Plans: Continue management support services, travel, engineering technical services, and studies analyses and evaluations in support of program objectives.						37.342	70.064	74.518	0.000	74.518	
Follow-On Development FY 2011 Base Plans: Initiate follow-on development BLOCK IV capabilities to include logistics, weapons, security, sensors, survivability, and upgrades required to support F-35 variants. Efforts will support aircraft and engine delivery to services and partner nations commencing in 2014 and will integrate urgent operationally relevant requirements post-IOC.						0.000	0.000	58.052	0.000	58.052	
Accomplishments/Planned Programs Subtotals						3,663.929	4,100.824	2,470.827	0.000	2,470.827	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• RDT&E/0604800F: Joint Strike Fighter	1,743.569	2,072.897	1,043.610	0.000	1,043.610	1,298.495	1,005.511	666.295	223.367	0.000	20,770.580
	244.584	109.511	91.386	0.000	91.386	19.400	11.620	0.000	0.000	0.000	4,549.590

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C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• International: International Partner											
• APN/0207142F: F-35 Joint Strike Strike Fighter	1,721.724	2,484.641	4,279.515	204.900	4,484.415	4,489.992	4,906.158	6,558.564	7,418.502	147,237.170	181,547.639
• RDT&E/0604800N: JT Strike Fighter (JSF) - EMD	1,704.592	1,950.229	707.791	0.000	707.791	621.032	549.618	375.897	134.679	0.000	18,711.239
• APN/0152: F-35 Joint Strike Fighter STOVL	0.000	0.000	2,576.142	0.000	2,576.142	2,863.025	4,016.672	3,447.547	3,451.525	22,070.323	38,425.234
• APN/0605B: F-35 Joint Strike Fighter STOVL Spares	0.000	0.000	164.135	0.000	164.135	136.957	311.553	325.794	324.437	1,718.297	2,981.173
• APN/0147: F-35 Joint Strike Fighter CV	1,692.965	4,464.251	1,886.988	0.000	1,886.988	2,012.008	2,636.771	2,467.155	2,764.547	27,946.270	47,218.923
• APN/0605C: F-35 Joint Strike Fighter CV Spares	182.508	248.191	107.030	0.000	107.030	92.216	178.496	194.183	192.599	2,049.006	3,244.229
• OPN/4265: Other Aviation Support Equipment	2.972	3.017	5.410	0.000	5.410	5.410	4.901	4.981	5.713	0.000	33.259
• MCN/0212576N: Edwards Ramp Extension	0.000	3.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.007
• APN International : International Procurement	874.014	629.965	1,936.600	0.000	1,936.600	4,690.200	5,737.700	7,893.900	7,898.740	0.000	29,661.119
• AF MILCON 0207142: AF MILCON	21.973	73.360	139.640	0.000	139.640	73.783	82.313	0.000	27.619	0.000	418.688
• APN : USAF MOD	0.000	0.000	123.936	0.000	123.936	8.319	5.047	3.461	31.472	0.000	172.235
D. Acquisition Strategy											
This Program Element continues development efforts budgeted in program element 0603800N prior to FY 2002. Effective with the PB11 budget submission, F-35B (USMC) and F-35C (USN) budgets are reported against separate budget line items and program elements. Starting in FY11, F-35B budget is reported against the newly created program element 0604800M. The F-35C USN budget continues to report under program element 0604800N. The aquisition strategy for the F-35B and the F-35C follows.											

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604800M: <i>(U)Joint Strike Fighter (JSF) - EMD</i>	PROJECT 2262: <i>Joint Strike Fighter EMD STOVL</i>
Activities in the prior phase of JSF centered around three distinct objectives to provide a sound foundation for the start of SDD in Fall 2001: (1) facilitated the Services' development of fully validated, affordable operational requirements. (2) lowered risk by investing in and demonstrating key leveraging technologies that lowered the cost of development, production and ownership. (3) demonstrated operational concepts. Early warfighter and technologist interaction was an essential aspect of the requirements definition process, and achieved JSF affordability goals. To an unprecedented degree the JSF Program used cost-performance trades early, as an integral part of the weapon system development process. The Services defined requirements through an iterative process, balancing weapon system capability against life cycle cost at every stage. Each iteration of requirements was provided to industry. They evolved their designs and provided cost data back to the warfighters. The warfighters evaluated trades and made decisions for the next iteration. This iterative process produced iterations of the Services' Joint Interim Requirements Documents in 1995, 1997, 1998 and culminated in the approved joint Operational Requirements Document (ORD) in FY 2000. A sizable technology maturation effort was conducted to reduce risk and life cycle cost (LCC) through technology maturation and demonstrations. The primary emphasis was on technologies identified as high payoff contributors to affordability, supportability, survivability, and lethality. Numerous demonstrations were accomplished to validate performance and life cycle cost impact to component, subsystem, and the total system. In November 1996, contracts were awarded to Boeing and Lockheed Martin for Concept Demonstration Programs. These competing contractors built and flew concept demonstrator aircraft, conducted concept unique ground demonstrations, and refined their respective weapon system concepts. Specifically, Boeing and Lockheed Martin demonstrated commonality and modularity, STOVL hover and transition, and low speed handling qualities of their respective weapon system concepts. Pratt and Whitney provided propulsion hardware and engineering support. General Electric continued development of a second, interchangeable, engine for competition in production. Following evaluation of proposals and a favorable Milestone B decision, the JSF Program entered SDD on 26 October 2001 with SDD contract awards to Lockheed Martin and Pratt & Whitney. The SDD plan reflects a block approach, based on open systems architecture, for accomplishing aircraft and weapons integration. General Electric continues propulsion development efforts through FY 2009 when program funding ends. Follow-on Development will continue the evolutionary approach of SDD by providing capability enhancements through an incremental methodology. The Joint Capabilities Integration and Development System (JCIDS) and Defense Acquisition System (DAS) shall provide the framework and basis for defining, managing and acquiring the envisioned F-35 enhancements. The plan for each follow-on increment will include all the development, integration and verification testing of those capabilities. Additionally, the non-recurring efforts for cut-in of retrofit, production and sustainment will be included. Retrofit planning will be based on upgrading all		

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previously fielded aircraft to the latest increment in order to limit the number of configurations, thus reducing life cycle cost. Retrofit execution will be in accordance with the stakeholder's direction. These follow-on development efforts will be procured via cost type contracts. It is anticipated that fee provisions will be used to target and motivate contractor performance. The new configurations will be incorporated into production and, if required by the U.S. Services or SDD International Partners, retrofitted to fielded aircraft under F-35 production and sustainment contracts. Similar to SDD, BOA's and ID/IQ contracts may be used for trade studies and analyses to supplement Follow-On requirements development. The updated JSF Acquisition Strategy and program schedule were approved following the May 05 DAB. APR 06 DAB authorized full funding for LRIP I procurement. USAF LRIP I Advanced Procurement funding was awarded during FY 2006, followed by the USAF Regular Procurement award in FY 2007. USAF and DoN Advanced Procurement funding for LRIP II was awarded during FY07. USAF LRIP II full-funding contract award occurred in April 08. DoN LRIP II full funding contract was awarded July 08, upon successful first flight of the DoN STOVL aircraft. USAF and DoN Advance Procurement funding for LRIP III was awarded in May 08, LRIP III full funding was awarded Jun 09. LRIP IV advance procurement was awarded in Mar 09 and full funding contract award will occur in Feb 10. Budget reflects a one year flight test extension approved by the Executive Steering Committee. <u>E. Performance Metrics</u> COMBAT RADIUS CTOL MEETS/EXCEEDS TRIPWIRE REQUIREMENT CV MEETS/EXCEEDS TRIPWIRE REQUIREMENT STOVL MEETS/EXCEEDS TRIPWIRE REQUIREMENT CV RECOVERY VPA MIN MEETS/EXCEEDS REQUIREMENT IN TRIPWIRE BAND STOVL PERFORMANCE FLAT DECK (HHH FUEL) MEETS/EXCEEDS REQUIREMENT IN TRIPWIRE BAND SKI JUMP (HMMH FUEL) MEETS/EXCEEDS REQUIREMENT IN TRIPWIRE BAND VLBB MEETS/EXCEEDS REQUIREMENT IN TRIPWIRE BAND INTEROPERABILITY Net Ready Criteria- MEETS/EXCEEDS REQUIREMENT IN TRIPWIRE BAND		

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RF SIGNATURE-MEETS/EXCEEDS TRIPWIRE REQUIREMENT MISSION RELIABILITY CTOL MEETS/EXCEEDS TRIPWIRE REQUIREMENT CV EXCEEDS ORD OBJECTIVE STOVL USMC MEETS/EXCEEDS TRIPWIRE REQUIREMENT STOVL UK MEETS/EXCEEDS TRIPWIRE REQUIREMENT SORTIE GENERATION RATE CTOL MEETS/EXCEEDS TRIPWIRE REQUIREMENT CV MEETS/EXCEEDS TRIPWIRE REQUIREMENT STOVL USMC MEETS/EXCEEDS TRIPWIRE REQUIREMENT STOVL UK MEETS/EXCEEDS TRIPWIRE REQUIREMENT LOGISTICS FOOTPRINTS C-17 CTOL MEETS/EXCEEDS TRIPWIRE REQUIREMENT STOVL USMC MEETS/EXCEEDS TRIPWIRE REQUIREMENT LOGISTICS FOOTPRINT- VOLUME CV EXCEEDS ORD OBJECTIVE STOVL USMC MEETS/EXCEEDS TRIPWIRE REQUIREMENT 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 2011 Navy											DATE: February 2010			
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Product Development (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Primary H/W Development- SDD	C/CPAF	Lockheed Martin Ft. Worth, TX	23,060.300	2,431.167	Oct 2009	1,462.504	Oct 2010	0.000		1,462.504	2,907.330	29,861.301	27,481.288	
Primary H/W Development-IDIQ1	SS/Various	Lockheed Martin Ft. Worth, TX	5.015	7.286	Oct 2009	2.677	Oct 2010	0.000		2.677	2.350	17.328	17.328	
Primary H/W Development-IDIQ2	SS/Various	Lockheed Martin Ft. Worth, TX	19.733	7.000	Oct 2009	0.000		0.000		0.000	0.000	26.733	26.733	
Primary H/W Development-BOA	SS/Various	Lockheed Martin Ft. Worth, TX	3.511	0.000		0.000		0.000		0.000	0.000	3.511	3.511	
Primary H/W Development-SDD	C/CPAF	Pratt & Whitney Hartford, CT	6,065.570	636.978	Oct 2009	211.828	Oct 2010	0.000		211.828	373.286	7,287.662	6,660.675	
Primary H/W Development-Closeout	SS/CPFF	Pratt & Whitney Hartford, CT	1.364	0.000		0.000		0.000		0.000	0.000	1.364	1.364	
Primary H/W Development-CDO Closeout	SS/CPFF	Pratt & Whitney Hartford, CT	2.211	0.000		0.000		0.000		0.000	0.000	2.211	2.211	
Primary H/W Development-BOA	SS/Various	Pratt & Whitney Hartford, CT	35.983	0.000		0.000		0.000		0.000	0.000	35.983	35.983	
Primary H/W Development-IDIQ3	SS/Various	Pratt & Whitney Hartford, CT	10.862	0.000		0.000		0.000		0.000	0.000	10.862	10.862	
Primary H/W Development-SDD	SS/CPAF	GE Cinn.OH	1,670.360	429.108	Oct 2009	0.000		0.000		0.000	0.000	2,099.468	1,716.386	
Primary H/W Development-IDIQ D0009	SS/Various	GE Cinn.OH	0.264	0.000		0.000		0.000		0.000	0.000	0.264	0.264	
	SS/Various	GE Cinn.OH	4.175	0.000		0.000		0.000		0.000	0.000	4.175	4.175	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy										DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604800M: (U)Joint Strike Fighter (JSF) - EMD				PROJECT 2262: Joint Strike Fighter EMD STOVL				
Product Development (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary H/W Development-IDIQ D0074													
Primary H/W Development-F136	SS/Various	GE Cinn.OH	100.400	0.000		0.000		0.000		0.000	0.000	100.400	100.400
Primary H/W Development-BOA	SS/Various	GE Cinn.OH	5.548	0.000		0.000		0.000		0.000	0.000	5.548	5.548
Primary H/W Development-Phase III	SS/Various	GE Cinn.OH	382.753	0.000		0.000		0.000		0.000	0.000	382.753	382.753
Primary H/W Development-Systems Engineering	SS/Various	various various	240.041	42.537	Oct 2009	0.000		0.000		0.000	0.000	282.578	282.578
Follow on Develoment	C/CPAF	Lockheed Martin Ft Worth, TX	0.000	0.000		52.073	Jan 2011	0.000		52.073	292.333	344.406	344.406
Follow on Development	SS/CPAF	Pratt & Whitney Hartford, CT	0.000	0.000		4.250	Jan 2011	0.000		4.250	9.000	13.250	13.250
Follow on Development PDSE	Various/ Various	various various	0.000	0.000		0.067	Oct 2010	0.000		0.067	1.866	1.933	Continuing
Product Development Sys Eng	Various/ Various	various various	0.000	0.000		49.752	Oct 2010	0.000		49.752	237.634	287.386	Continuing
Subtotal			31,608.090	3,554.076		1,783.151		0.000		1,783.151	3,823.799	40,769.116	37,089.715
Remarks													
Note: Total Values of prime contracts differs from Total Cost because (a) Lockheed Martin and Pratt & Whitney Contracts have not been modified to reflect planned funding allocations and (b) no funds are budgetd for F136 (FET GE/RR) beyond FY10.													

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy											DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0604800M: (U)Joint Strike Fighter (JSF) - EMD				PROJECT 2262: Joint Strike Fighter EMD STOVL				
Support (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Development Support	Various/ Various	EGLIN Florida	71.142	18.081	Oct 2009	20.999	Oct 2010	0.000		20.999	72.006	182.228	Continuing	
Development Support	Various/ Various	ASC/AFRL Dayton, OH	35.388	9.463	Oct 2009	6.096	Oct 2010	0.000		6.096	31.376	82.323	Continuing	
Development Support	Various/ Various	Bolling AFB Washington DC	6.400	1.170	Oct 2009	1.142	Oct 2010	0.000		1.142	2.198	10.910	Continuing	
Development Support	Various/ Various	DMEA Dayton, OH	4.112	0.000		0.000		0.000		0.000	0.000	4.112	Continuing	
Development Support	MIPR	ESC Hanscomb, MA	6.383	0.836	Oct 2009	0.455	Oct 2010	0.000		0.455	1.376	9.050	Continuing	
Development Support	Various/ Various	AEDC/Fuel Arnold, TN	107.092	62.447	Oct 2009	72.364	Oct 2010	0.000		72.364	179.013	420.916	Continuing	
Development Support	WR	NAS Jacksonville Jacksonville, FL	4.832	2.009	Oct 2009	2.143	Oct 2010	0.000		2.143	9.559	18.543	Continuing	
Development Support	Various/ Various	Various Various	191.088	10.572	Oct 2009	16.068	Oct 2010	0.000		16.068	41.721	259.449	Continuing	
Development Support	Various/ Various	NAWC China Lake	71.847	14.297	Oct 2009	11.751	Oct 2010	0.000		11.751	41.895	139.790	Continuing	
Development Support	Various/ Various	NAWC TSD Florida	6.096	1.854	Oct 2009	2.038	Oct 2010	0.000		2.038	7.990	17.978	Continuing	
Development Support	Various/ Various	NAWC PAX	233.248	42.612	Oct 2009	73.381	Oct 2010	0.000		73.381	188.114	537.355	Continuing	
Development Support	WR	NSWC Maryland	2.880	1.318	Oct 2009	0.909	Oct 2010	0.000		0.909	2.265	7.372	Continuing	
Development Support		SPAWAR	6.484	0.099	Oct 2009	0.045	Oct 2010	0.000		0.045	0.249	6.877	Continuing	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy										DATE: February 2010	
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Support (\$ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
	Various/ Various	California											
SBIR Congressional Development	Various/ Various	Various various	24.187	0.000		0.000		0.000		0.000	0.000	24.187	Continuing
Follow on Development	Various/ Various	Various various	0.000	0.000		1.662	Oct 2010	0.000		1.662	40.215	41.877	Continuing
Subtotal			771.179	164.758		209.053		0.000		209.053	617.977	1,762.967	

Remarks

Note: Total Values of prime contracts differs from Total Cost because (a) Lockheed Martin and Pratt & Whitney Contracts have not been modified to reflect planned funding allocations and (b) no funds are budgetd for F136 (FET GE/RR) beyond FY10.

Test and Evaluation (\$ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	Various/ Various	NAWC Pax Maryland	158.437	136.921	Oct 2009	174.158	Oct 2010	0.000		174.158	851.343	1,320.859	Continuing
Developmental Test & Evaluation	Various/ Various	NAWC China Lake California	39.441	13.218	Oct 2009	15.266	Oct 2010	0.000		15.266	39.148	107.073	Continuing
Developmental Test & Evaluation	PO	EDWARDS AFB California	147.538	97.290	Oct 2009	129.550	Oct 2010	0.000		129.550	291.103	665.481	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy										DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604800M: (U)Joint Strike Fighter (JSF) - EMD				PROJECT 2262: Joint Strike Fighter EMD STOVL			

Test and Evaluation (\$ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	Various/ Various	Various Various	49.391	28.151	Oct 2009	29.127	Oct 2010	0.000		29.127	69.577	176.246	Continuing
Developmental Test & Evaluation	MIPR	WEP/Elgin Florida	60.274	16.119	Oct 2009	21.103	Oct 2010	0.000		21.103	9.614	107.110	Continuing
Developmental Test & Evaluation	MIPR	JITC Various	0.503	0.000		0.000		0.000		0.000	0.000	0.503	Continuing
Developmental Test & Evaluation	Various/ Various	OT-UK UK	3.270	6.910	Oct 2009	11.185	Oct 2010	0.000		11.185	34.931	56.296	Continuing
Developmental Test & Evaluation	MIPR	OT-AFOTEC/ AFFTC Various	18.124	10.956	Oct 2009	20.179	Oct 2010	0.000		20.179	405.214	454.473	Continuing
Developmental Test & Evaluation	Various/ Various	OT-JITC/OPTEV Various	3.485	2.361	Oct 2009	3.535	Oct 2010	0.000		3.535	33.396	42.777	Continuing
Subtotal			480.463	311.926		404.103		0.000		404.103	1,734.326	2,930.818	

Remarks

Note: Total Values of prime contracts differs from Total Cost because (a) Lockheed Martin and Pratt & Whitney Contracts have not been modified to reflect planned funding allocations and (b) no funds are budgetd for F136 (FET GE/RR) beyond FY10.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy										DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0604800M: (U)Joint Strike Fighter (JSF) - EMD					PROJECT 2262: Joint Strike Fighter EMD STOVL			
Management Services (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management	SS/CPFF	ACT I Virginia	0.000	2.750	Oct 2009	2.832	Oct 2010	0.000		2.832	12.206	17.788	17.789
Program Management	C/FP	Mantech Virginia	31.399	6.681	Oct 2009	7.015	Oct 2010	0.000		7.015	31.749	76.844	76.844
Program Management	SS/CPFF	PA Consultants Virginia	0.000	2.021	Oct 2009	2.082	Oct 2010	0.000		2.082	8.970	13.073	13.073
Program Management	C/CPFF	DRC Virginia	0.000	2.333	Oct 2009	3.000	Oct 2010	0.000		3.000	3.000	8.333	8.333
Program Management	C/CPFF	First Principles Virginia	0.000	0.881	Oct 2009	0.909	Oct 2010	0.000		0.909	3.951	5.741	5.741
Program Management	C/CPFF	Wyle Virginia	49.032	18.066	Oct 2009	18.970	Oct 2010	0.000		18.970	85.602	171.670	171.670
Program Management	C/Various	Saftas Virginia	46.562	15.504	Oct 2009	16.174	Oct 2010	0.000		16.174	67.581	145.821	145.821
Program Management	C/CPAF	Stanley Virginia	110.805	17.810	Oct 2009	19.500	Oct 2010	0.000		19.500	88.060	236.175	236.175
Travel and Miscellaneous	Various/ Various	Various various	22.917	4.017	Oct 2009	4.037	Oct 2010	0.000		4.037	16.331	47.302	Continuing
Program Management	Various/ Various	various various	0.800	0.000		0.000		0.000		0.000	0.000	0.800	Continuing
Subtotal			261.515	70.063		74.519		0.000		74.519	317.450	723.547	675.446
Remarks													
Note: Total Values of prime contracts differs from Total Cost because (a) Lockheed Martin and Pratt & Whitney Contracts have not been modified to reflect planned funding allocations and (b) no funds are budgetd for F136 (FET GE/RR) beyond FY10.													

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	Total Prior Years Cost	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	33,121.247	4,100.823	2,470.826	0.000	2,470.826	6,493.552	46,186.448	37,765.161

Remarks

Totals may not add due to rounding.

Note: Total Values of prime contracts differs from Total Cost because (a) Lockheed Martin and Pratt & Whitney Contracts have not been modified to reflect planned funding allocations and (b) no funds are budgetd for F136 (FET GE/RR) beyond FY10.

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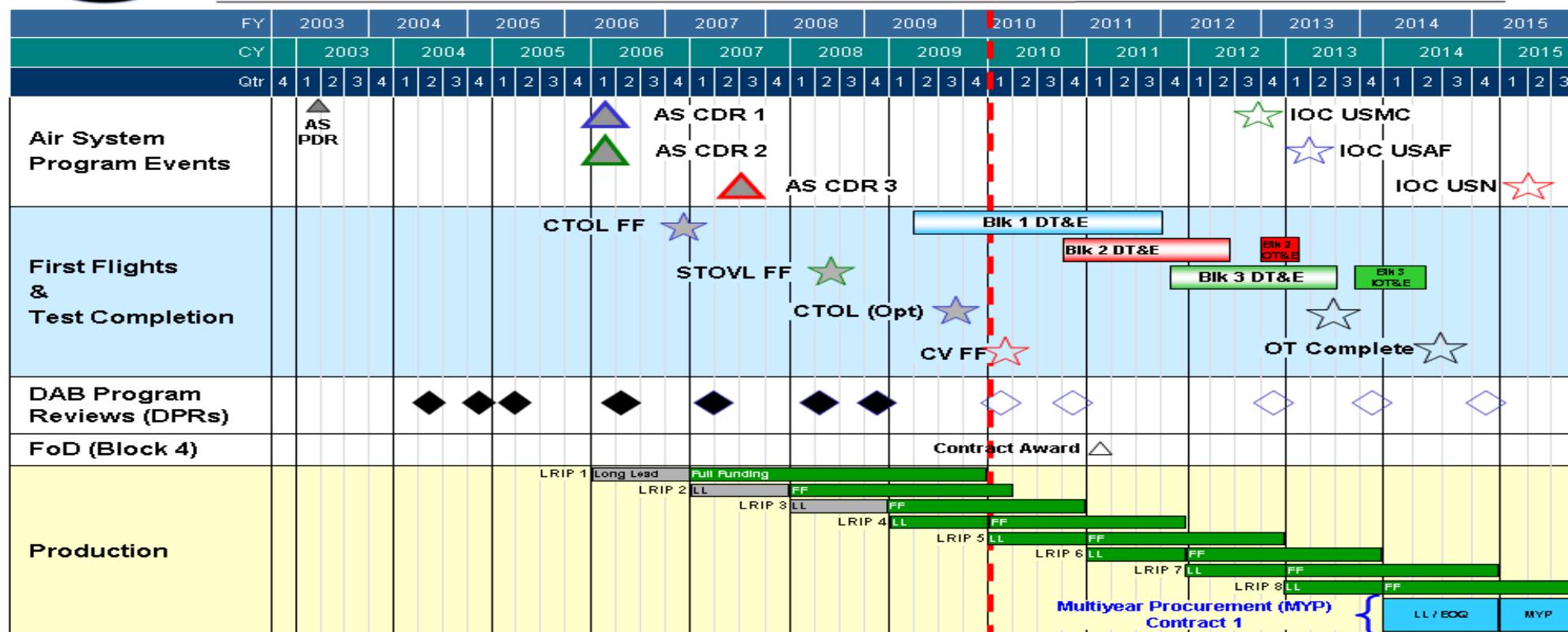
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R-1 ITEM NOMENCLATURE
PE 0604800M: (U)Joint Strike Fighter (JSF) -
EMD

PROJECT
2262: *Joint Strike Fighter EMD STOVL*



JSF Top-Level Development Program Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604800M: <i>(U)Joint Strike Fighter (JSF) - EMD</i>	PROJECT 2262: <i>Joint Strike Fighter EMD STOVL</i>	

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
DAB Program Review (DPR) - FY10	2	2010	2	2010
DAB Program Review (DPR) - FY11	1	2011	1	2011
DAB Program Review (DPR) - FY13	1	2013	1	2013
DAB Program Review (DPR) - FY14	1	2014	1	2014
DAB Program Review (DPR) - FY15	1	2015	1	2015
CTOL Optimized Flight	4	2009	4	2009
CV First Flight	2	2010	2	2010
Block 1 DT&E	3	2009	4	2011
Block 2, DT&E	1	2011	3	2012
Block 3, DT&E	1	2012	3	2013
Block 2, OT&E	1	2013	2	2013
LRIP VI (CTOL, STOVL, CV. UK)	2	2011	1	2014
Block 3, OT&E	1	2014	3	2014
DT Complete	3	2013	3	2013
OT Complete	3	2014	3	2014
Follow-on Development Contract Award	2	2011	2	2011
LRIP I (CTOL)	1	2009	1	2010
LRIP II (CTOL, STOVL)	1	2009	2	2010

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy			DATE: February 2010
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Event	Start		End	
	Quarter	Year	Quarter	Year
LRIP III (CTOL, STOVL, CV, UK)	1	2009	1	2011
LRIP IV (CTOL, STOVL, CV, UK)	2	2009	1	2012
LRIP V (CTOL, STOVL, CV, UK)	2	2010	1	2013
LRIP VII (CTOL, STOVL, CV, UK)	2	2012	1	2015
LRIP VIII (CTOL, STOVL, CV, UK)	2	2013	4	2015
Initial Operational Capability (IOC Threshold) USMC	4	2012	4	2012
Initial Operational Capability (IOC) USAF	2	2012	2	2013
Initial Operational Capability (IOC) USN	2	2015	2	2015
DAB Program Review (DPR) - FY09	1	2009	1	2009
LL/EOQ	2	2014	1	2015
MYP	1	2015	4	2015

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