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CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: May 2009	
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-5					R-1 ITEM NOMENCLATURE 0604800N, F-35 JOINT STRIKE FIGHTER (JSF) PROGRAM			
COST (\$ in Millions)	FY 2008	FY 2009	FY 2010					
Total PE Cost	1,848.883	1,744.570	1,741.296					
2261 JSF	1,515.688	1,498.878	1,709.350					
3194 Joint Reprogramming Center	5.378	29.678	31.946					
9999 Congressional Adds	327.817	216.014						
<p>This Program Element continues development efforts budgeted in program element 0603800N prior to FY 2002.</p> <p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>The 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.</p>								

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APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-5	R-1 ITEM NOMENCLATURE 0604800N, F-35 JOINT STRIKE FIGHTER (JSF) PROGRAM		
B. PROGRAM CHANGE SUMMARY:			
Funding:	FY08	FY09	FY10
FY09 President's Budget:	1,868.046	1,532.748	1,028.674
FY10 President's Budget:	1,848.883	1,744.570	1,741.296
Total Adjustments	-19.163	211.822	712.622
Summary of Adjustments			
Congressional Rescissions			
Congressional Adjustments		216.558	
SBIR/STTR/FTT Assessments	-18.663		
Program Adjustments	-0.500		712.733
Rate/Misc Adjustments		-4.736	-0.111
Subtotal	-19.163	211.822	712.622
Schedule:			
Changes to Program Master Schedule reflect Flight Test Extension.			
Technical:			
Not Applicable			

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5		PROGRAM ELEMENT NUMBER AND NAME 0604800N, F-35 JOINT STRIKE FIGHTER (JSF) PROGRAM			PROJECT NUMBER AND NAME 2261, JOINT STRIKE FIGHTER (JSF) PROGRAM																																											
COST (\$ in Millions)		FY 2008	FY 2009	FY 2010																																												
Project Cost		1,515.688	1,498.878	1,709.350																																												
RDT&E Articles Qty		1	9	8																																												
<p>This Program Element continues development efforts budgeted in program element 0603800N prior to FY 2002.</p> <p>Quantity of 13 RDT&E articles reflect flight test articles (including one asset in FY06) and 6 ground test articles are budgeted in SDD which includes total program quantities for Navy and Air Force.</p> <p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>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.</p> <p>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.</p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;"><u>PU</u></th> <th style="text-align: center;"><u>FY 2008</u></th> <th style="text-align: center;"><u>FY 2009</u></th> <th style="text-align: center;"><u>FY 2010</u></th> </tr> </thead> <tbody> <tr> <td>Navy</td> <td style="text-align: center;">2261</td> <td style="text-align: right;">1,515.688</td> <td style="text-align: right;">1,498.878</td> <td style="text-align: right;">1,709.350</td> </tr> <tr> <td>Navy Cong Add</td> <td style="text-align: center;">2261A</td> <td style="text-align: right;">231.416</td> <td style="text-align: right;">214.418</td> <td></td> </tr> <tr> <td>Navy Cong Add</td> <td style="text-align: center;">9C38A</td> <td style="text-align: right;">96.401</td> <td></td> <td></td> </tr> <tr> <td>Navy Cong Add</td> <td style="text-align: center;">9D99A</td> <td></td> <td style="text-align: right;">1.596</td> <td></td> </tr> <tr> <td>Air Force</td> <td style="text-align: center;">3831</td> <td style="text-align: right;">1,939.107</td> <td style="text-align: right;">1,734.299</td> <td style="text-align: right;">1,858.055</td> </tr> <tr> <td>International</td> <td></td> <td style="text-align: right;">552.720</td> <td style="text-align: right;">250.615</td> <td style="text-align: right;">114.080</td> </tr> <tr> <td>Total</td> <td></td> <td style="text-align: right; border-top: 1px solid black;">4,335.332</td> <td style="text-align: right; border-top: 1px solid black;">3,699.806</td> <td style="text-align: right; border-top: 1px solid black;">3,681.485</td> </tr> </tbody> </table>										<u>PU</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	Navy	2261	1,515.688	1,498.878	1,709.350	Navy Cong Add	2261A	231.416	214.418		Navy Cong Add	9C38A	96.401			Navy Cong Add	9D99A		1.596		Air Force	3831	1,939.107	1,734.299	1,858.055	International		552.720	250.615	114.080	Total		4,335.332	3,699.806	3,681.485
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EXHIBIT R-2a, RDT&E Project Justification			DATE: May 2009	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604800N, F-35 JOINT STRIKE FIGHTER (JSF) PROGRAM	PROJECT NUMBER AND NAME 2261, JOINT STRIKE FIGHTER (JSF) PROGRAM		
B. Accomplishments/Planned Program				
System Development & Demonstration	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	2,926.312	2,355.639	2,793.947	
RDT&E Articles Quantity	1	9	8	
Continue System Development and Demonstration SDD execution of the Air System, with Lockheed Martin including International Commonality Effort (ICE) which includes airframe, vehicle systems, mission systems, autonomic logistics, systems engineering and integrated test efforts.				
F135 Propulsion System	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	654.258	594.154	405.000	
RDT&E Articles Quantity				
Continue SDD execution of the F135 Propulsion System with Pratt & Whitney to include engine testing, autonomic logistics, integration and performing technology maturation efforts.				
F136 Propulsion System	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	463.609	417.000	0.000	
RDT&E Articles Quantity				
Continue the Fighter Engineering Team (General Electric/Rolls Royce) F136 development for a second, interchangeable, JSF engine for competition in production (previously begun in associated program elements 0603800N and 0603800F). Efforts include technology maturation, engine testing, autonomic logistics and integration.				

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B. Accomplishments/Planned Program (Cont.)				
Systems Engineering	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	23.642	33.642	38.963	
RDT&E Articles Quantity				
Continue SDD Systems Engineering (SE) including systems operations requirements analysis, program integration, requirements integration, and interoperability support.				
Development Test and Evaluation	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	79.369	124.093	248.612	
RDT&E Articles Quantity				
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 (PIDs).				
Development Support	FY 08	FY 09	FY 10	
Accomplishments/Effort/Subtotal Cost	135.229	127.673	136.831	
RDT&E Articles Quantity				
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 (Cont.)

	FY 08	FY 09	FY 10	
Program Management Support				
Accomplishments/Effort/Subtotal Cost	52.912	47.606	58.132	
RDT&E Articles Quantity				

Continue management support services, travel, engineering technical services, and studies analyses and evaluations in support of program objectives.

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C. OTHER PROGRAM FUNDING SUMMARY:

This is a joint program with no executive service. Service Acquisition Executive (SAE) authority alternates between the Department of the Navy and the Department of the Air Force and currently resides with the Navy. Program element 0604800N continues USN development efforts budgeted in 0603800N prior to FY2002. The United Kingdom, seven other international countries, and 3 Foreign Military Sales cases are participants in the SDD phase of JSF. International cooperation was further enhanced through the implementation of the Production, Sustainment, and Follow-on Development (PSFD) MOU, by the US and its eight SDD international partners, which extends the relationship through the life of the Program.

<u>RDT&E:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
0604800F Joint Strike Fighter	1,939.107	1,734.299	1,858.055
International Partner Funding	552.720	250.615	114.080

RELATED RDT&E: Funding prior to JSF SDD (FY94-FY01): USN PE 0603800N \$1,950.617; USAF PE 0603800F \$1,907.352; DARPA PE 0603800E \$118.006; and International Partner contributions of \$253.921 for a total of \$4,229.896. Total cost includes prior years funding FY02 through FY06.

RELATED PROCUREMENT:

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
0204146N APN-1 (P-1 No. 6 F-35 (JSF) - Joint Strike Fighter) (Quantity)	1,223.640 (6)	1,650.088 (7)	4,478.048 (20)
0207142F P-1 No. 1 F-35 (Quantity)	1,481.853 (6)	1,721.558 (7)	2,479.140 (10)

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RDT&E, N / BA-5	0604800N, F-35 JOINT STRIKE FIGHTER (JSF) PROGRAM	2261, JOINT STRIKE FIGHTER (JSF) PROGRAM	
<u>RELATED SPARES AND REPAIR PARTS:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
0207142F, BPAC: 16F35A	69.756	60.930	129.710
BLI 060510	0.000	32.653	248.958
<u>RELATED OTHER PROCUREMENT NAVY:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
BLI 426500	0.855	2.972	6.036
<u>RELATED MILCON:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
0207124F	74.300	22.100	48.800
0203176N			1.552
0212176N			23.008
0212576N			3.007

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<p>D. ACQUISITION STRATEGY:</p> <p>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:</p> <ul style="list-style-type: none"> (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. <p>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.</p> <p>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.</p> <p>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.</p> <p>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 FY09 when program funding ends.</p> <p>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 FY06, followed by the USAF Regular Procurement award in FY07. 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.</p> <p>USAF and DoN Advance Procurement funding for LRIP III was awarded in May 08, LRIP III full funding was awarded April 09. LRIP IV advance procurement was awarded in Feb 09 and full funding contract award will occur in Feb 10.</p> <p>Budget reflects a one year flight test extension approved by the Executive Steering Committee.</p>		

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Exhibit R-3 Cost Analysis (page 1)							DATE: May 2009				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME					
RDT&E, N / BA-5			0604800N, JOINT STRIKE FIGHTER (JSF) PROGRAM			2261, JOINT STRIKE FIGHTER (JSF) PROGRAM					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date				
Primary H/W Dev - Air System	C/CPAF	Lockheed, Ft. Worth TX	20,633.361	2,355.247	10/08	2,793.947	10/09				
Primary H/W Dev - Air System	SS/BOA	Lockheed Martin	5.630								
Primary H/W Dev - Air System	SS/IDIQ	Lockheed Martin	17.613	0.391							
Primary H/W Dev - F135 Engine	SS/CPAF	Pratt&Whitney, Hartford CT	5,512.000	594.041	10/08	405.000	10/09				
Primary H/W Dev - F135 Engine	SS/BOA	Pratt & Whitney	36.016								
Primary H/W Dev - F135 Engine	SS/IDIQ	Pratt & Whitney	14.677	0.113	10/08						
Primary H/W Dev - F136 Engine	SS/CPAF	General Electric, Cinn. OH	382.753	417.000	10/08						
Primary H/W Dev - F136 Engine	SS/BOA	General Electric	6.348								
Primary H/W Dev - F136 Engine	SS/IDIQ	General Electric	109.849								
Primary H/W Dev - F136 Engine SDD	SS/CPAF	GE/RR Fighter Engine Team	1,247.827								
Systems Engineering	WX	Various	200.527	33.642	10/08	38.963	10/09				
Subtotal Product Development			28,166.601	3,400.434		3,237.909					
Remarks: Total cost includes Navy, Air Force and International Cooperative Partners contributions. Lockheed Martin Award Fee Estimate: FY09 \$218.398, FY10 \$167.202 Pratt & Whitney Award Fee Estimate: FY09 \$65.451, FY10 \$37.037 General Electric/Rolls Royce Fighter Engine Team Award Fee Estimate: FY09 \$40.599											

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Exhibit R-3 Cost Analysis (page 2)								DATE: May 2009			
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Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date				
Developmental Test & Evaluation	WX	NAWC Patuxent River	117.359	56.587	10/08	107.700	10/09				
Developmental Test & Evaluation	MIPR	Edwards AFB- AFFTC	121.850	32.231	10/08	96.600	10/09				
Developmental Test & Evaluation	WX	Various	36.646	2.070	10/08	1.212	10/09				
Developmental Test & Evaluation	WX	NAWC China Lake	31.303	10.210	10/08	12.260	10/09				
Developmental Test & Evaluation	MIPR	Eglin AFB	52.699	9.785	10/08	14.100	10/09				
Developmental Test & Evaluation	MIPR	JITC	0.505	1.140	10/08	0.640	10/09				
Operation Test & Evaluation	WX/MIPR	Various	13.518	12.070	10/08	16.100	10/09				
Subtotal T&E			373.880	124.093		248.612					
Remarks: Total cost includes Navy, Air Force and International Cooperative Partners contributions.											
Program Management Support	SS/CPFF	Stanley, Arlington, VA	88.651	18.827	11/08	17.700	11/09				
Program Management Support	SS/CPFF	Mantech, Arlington, VA	27.082	6.762	11/08	7.100	11/09				
Travel	WX/MIPR	Various	21.288	4.310	10/08	3.849	10/09				
Program Management Support	C/CPAF	Alion/Jacobs Sverdrup, Arl. VA	43.421	14.670	11/08	14.093	11/09				
Program Management Support	SS/CPFF	Wyle Labs (AI-ES), Arl. VA	44.732	3.036	11/08	15.389	11/09				
Subtotal Management			225.174	47.606		58.131					
Remarks: Total cost includes Navy, Air Force and International Cooperative Partners contributions. Prior Years reflect \$12,667.401 USN / \$12,700.965 USAF / \$4,073.089 International / Total \$29,441.455 FY 2009 reflects \$1,714.892 USN / \$1,734,299 USAF / \$250.615 International / Total \$3,699.806 FY 2010 reflects \$1,709.350 USN / \$1,858.055 USAF / \$114.080 International / Total \$3,681.485											
Total Cost			29,441.455	3,699.806		3,681.485					

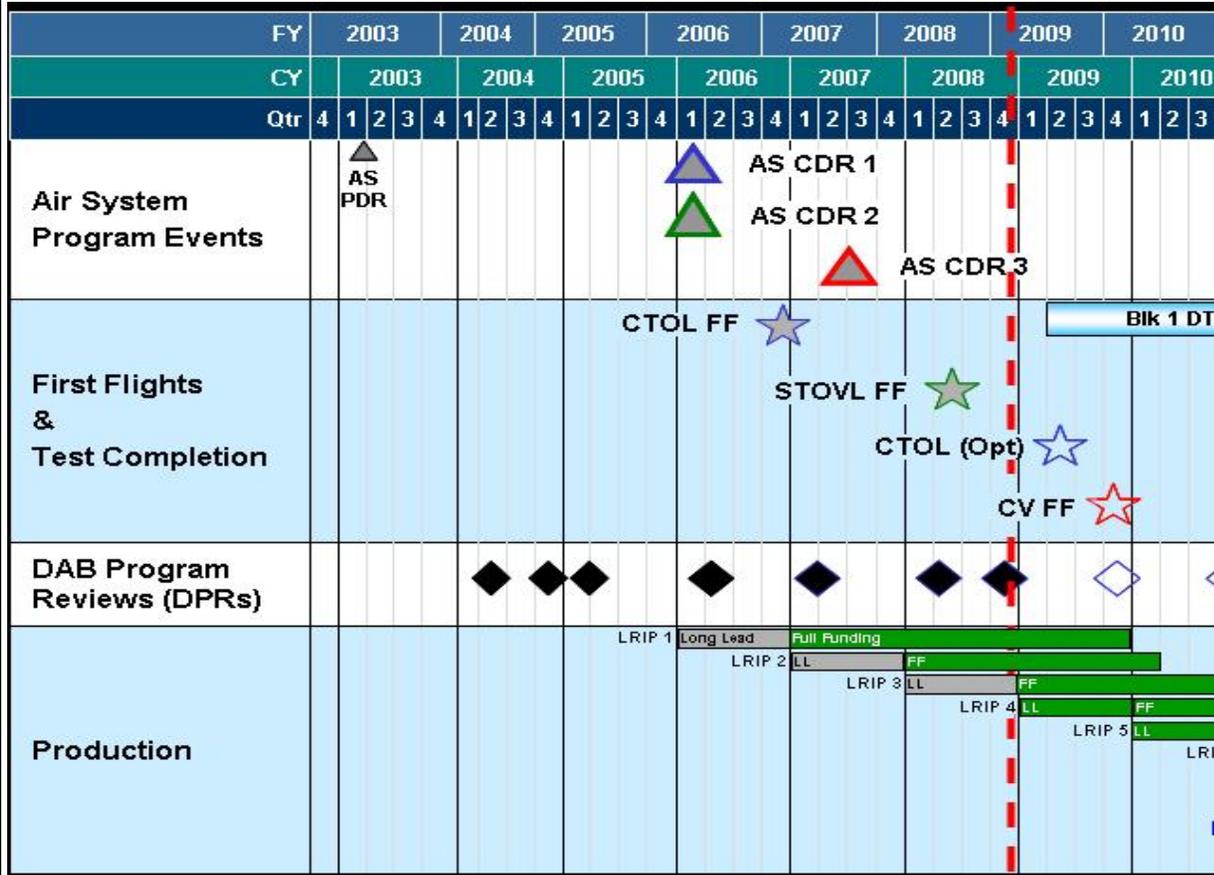
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EXHIBIT R4, Schedule Profile			DATE: May 2009		
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JSF Top-Level SDD Program Schedule



Note: JSF SDD Master Program Schedule update to reflect one-year extension of Flight Test Program. No impact to IOC.

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COST (\$ in Millions)		FY 2008	FY 2009	FY 2010				
Project Cost USRL BUILD UP		5.378	29.678	31.946				
RDT&E Articles Qty								
<p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The United States Research Laboratory (USRL)/Capability Concept project, previously referred to as the JSF Joint Reprogramming Center (JRC)/Capability Concept is required to adequately develop and maintain Operation Sensor Engineering F-35(V) Mission Data to support USN, USMC, and USAF multi-mission objectives. USRL will allow rapid operational response to threat changes. Funding for this project unit (3194) is provided specifically for:</p> <ul style="list-style-type: none"> - 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 SDD baseline. 								

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B. Accomplishments/Planned Program

USRL BUILD UP	FY 08	FY 09	FY10	
Accomplishments/Effort/Subtotal Cost	4.789	26.678	25.046	
RDT&E Articles Quantity				

Funds provided 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.

Development Support	FY 08	FY 09	FY10	
Accomplishments/Effort/Subtotal Cost	0.589	3.000	6.900	
RDT&E Articles Quantity				

SDD Systems Engineering (SE) including systems operations requirements analysis, program integration, requirements integration, and interoperability support of Joint Reprogramming Center.

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C. OTHER PROGRAM FUNDING SUMMARY:

This is a joint program with no executive service. Program Element 0604800F continues USAF development efforts budgeted in 0603800F.

<u>RDT&E:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
0604800F Joint Strike Fighter	38.364	40.095	32.385

Remarks: USAF is funding this requirement jointly with the USN beginning in FY08 as a subset of PE 0604800F.

D. ACQUISITION STRATEGY:

The Joint Reprogramming Capability is a subset of the JSF Program and falls within the JSF acquisition strategy. JRC is needed to support scheduled Initial Operational Capability dates (and supporting test activity) for the three JSF variants. To that end, a concept of operations (CONOPS) is being developed for JRC to address Mission Data (MD) development and verification/validation/testing and to merge service unique requirements into Joint processes/procedures. Previously envisaged as a single facility, JRC now is comprised of two distinct facilities under the JRC concept. The United States Reprogramming Laboratory (USRL) will support U.S. Joint Service reprogramming requirements; the Partner Reprogramming Laboratory will focus on International Partner areas of interest.

Inter-Service collaboration is ongoing to formalize the USRL requirements planning process and will eliminate duplication of effort, will maximize technology to improve configuration control, will employ advance networks, and will ensure the 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 also will improve efficiencies. A Joint Command reprogramming authority will determine/manage reprogramming priorities and implementation authority.

USRL Mission data development strategy is based upon an assessment of legacy systems, F-22 data, corporate expertise of Eglin/Pt Mugu personnel, adjusted cost and schedule projections keyed to complexity of multi-variant and multi-mission aircraft, JSF-specific 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 JSF operational requirements, interoperability, and fratricide mitigation.

Although the F-35 JSF SDD Program has contracted with Lockheed Martin and Pratt & Whitney for the SDD of the JSF, LM does not have the laboratory space availability or expertise to perform operational evaluation of lab and flight test data and support field recommendations to the level needed. The complexity and magnitude of JSF mission data loads drives the decision to utilize government and contractor resources to design and develop a joint-Service reprogramming facility at Eglin AFB.

R-1 SHOPPING LIST - Item No. 127

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CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)							DATE: May 2009					
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-05			PROGRAM ELEMENT 0604800N, F-35 JOINT STRIKE FIGHTER (JSF) PROG			PROJECT NUMBER AND NAME 3194, JOINT REPROGRAMMING CENTER						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date					
Primary H/W and S/W Dev	C/CPAF	Lockheed, Ft. Worth TX	4.789	26.678	10/08	25.046	10/09					
Subtotal Product Development			4.789	26.678		25.046						
Remarks: Award Fee Plan: FY09 \$1.401												
Development Support	WX	NAWC China Lake/Pt/Mugu	0.589	3.000	10/08	6.900	10/09					
Subtotal Support			0.589	3.000		6.900						

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CLASSIFICATION:

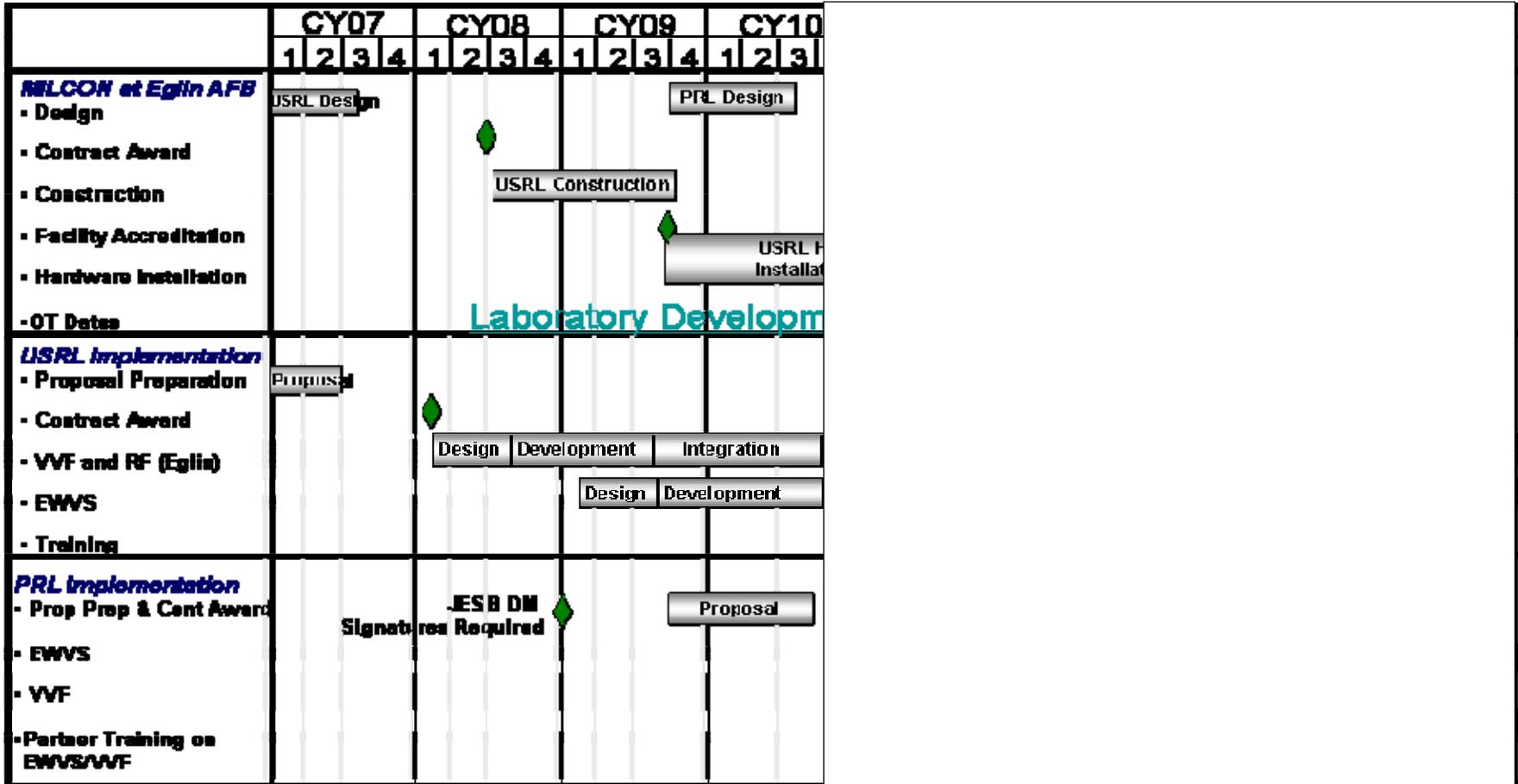
Exhibit R-3 Cost Analysis (page 2)								DATE: May 2009					
APPROPRIATION/BUDGET ACTIVITY RD&E, N / BA-05			PROGRAM ELEMENT 0604800N, F-35 JOINT STRIKE FIGHTER (JSF) PROG			PROJECT NUMBER AND NAME 3194, JOINT REPROGRAMMING CENTER							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date						
Developmental Test & Evaluation													
Operational Test & Evaluation													
Live Fire Test & Evaluation													
Test Assets													
Tooling													
GFE													
Award Fees													
Subtotal T&E			0.000	0.000		0.000							
Remarks:													
Contractor Engineering Support													
Government Engineering Support													
Program Management Support													
Travel													
Transportation													
SBIR Assessment													
Subtotal Management			0.000	0.000		0.000							
Remarks:													
Total Cost			5.378	29.678		31.946							
Remarks:													

R-1 SHOPPING LIST - Item No. 2

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CLASSIFICATION:

EXHIBIT R4, Schedule Profile		DATE: May 2009
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604800N, F-35 JOINT STRIKE FIGHTER (JSF) PROGRAM	PROJECT NUMBER AND NAME 3194, JOINT REPROGRAMMING CENTER



R-1 SHOPPING LIST - Item No. 127

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CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: May 2009	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5		PROGRAM ELEMENT NUMBER AND NAME 0604800N, F-35 JOINT STRIKE FIGHTER (JSF) PROGRAM			PROJECT NUMBER AND NAME 9999, CONGRESSIONAL ADDS			
COST (\$ in Millions)		FY 2008	FY 2009	FY 2010				
Project Cost		327.817	216.014					
RDT&E Articles Qty								
<p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: Congressional Adds to the Joint Strike Fighter Program Include:</p> <p>FY08:</p> <ol style="list-style-type: none"> 1) F136 Fighter Engine Team (FET) Alternate Engine incremental funding. 2) Production Affordability Initiatives <p>FY09:</p> <ol style="list-style-type: none"> 1) F135B Lift Fan Component Manufacturing 2) Maintain Development of 2nd source for engine 								

R-1 SHOPPING LIST - Item No. 127

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification	DATE: May 2009
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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604800N, F-35 JOINT STRIKE FIGHTER (JSF) PROGRAM	PROJECT NUMBER AND NAME 9999, CONGRESSIONAL ADDs
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B. Accomplishments/Planned Program

2261A MAINTAIN DEV OF 2ND SOURCE ENGINE	FY 08	FY 09	FY10	
Accomplishments/Effort/Subtotal Cost	231.416	214.418		
RDT&E Articles Quantity				

Maintain Development of 2nd source for F-35 Lightning II engine General Electric/Fighter Engine Team (GE/FET). Funding continues the Fighter Engineering Team (General Electric Rolls Royce) F136 development for a second, interchangeable, JSF engine for competition in production (previously begun in associated Program Elements 0603800F). Efforts include technical technology maturation, engine testing, autonomic logistics and integration.

9C38A PRODUCTION AFFORDABILITY	FY 08	FY 09	FY10	
Accomplishments/Effort/Subtotal Cost	96.401			
RDT&E Articles Quantity				

To provide funds for Production Affordability initiatives to protect JSF production schedule profile.

9D99A F-35B LIFT FAN COMPONENT	FY 08	FY 09	FY10	
Accomplishments/Effort/Subtotal Cost		1.596		
RDT&E Articles Quantity				

To provide funds to JSF for affordability changes to the Lift Fan Driveshaft Coupling design. Changes will improve production efficiency, reduce the cost of driveshaft manufacturing, and help support engine and overall program cost. This change not only lowers product costs but has a weight decrease and added stretch/compression capabilities which aid in aircraft installation and operational requirements.

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