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CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: February 2007	
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-5					R-1 ITEM NOMENCLATURE 0604800N, JOINT STRIKE FIGHTER (JSF) PROGRAM			
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	2,187.090	2,163.931	1,707.372	1,548.903	1,045.284	1,065.949	745.555	663.734
2261 JSF	2,183.164	1,991.733	1,701.832	1,518.670	1,016.454	1,030.304	724.859	650.701
3194 Joint Reprogramming Center			5.540	30.233	28.830	35.645	20.696	13.033
9999 Congressional Addds	3.926	172.198						

This Program Element continues development efforts budgeted in program element 0603800N prior to FY 2002.

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

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 and 7 other International countries are participants in the JSF Program.

Congressional Addds currently being included in the program planning and development.

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APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY /BA-5	R-1 ITEM NOMENCLATURE 0604800N, JOINT STRIKE FIGHTER (JSF) PROGRAM
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B. PROGRAM CHANGE SUMMARY:

Funding:	FY 06	FY 07	FY 08	FY 09
Previous President's Budget:	2,269.197	2,030.979	1,710.781	1,323.284
Current President's Budget	2,187.090	2,163.931	1,707.372	1,548.903
Total Adjustments	-82.107	132.952	-3.409	225.619
Summary of Adjustments				
Congressional Reductions		-31.694		
Congressional Rescissions				
Congressional Increases	2.485	172.850		
Congressional Undistributed Reductions	-60.872	-8.204		
Economic Assumptions	0.000		10.505	12.249
Miscellaneous Adjustments	-23.720	0.000	-13.914	213.370
Subtotal	-82.107	132.952	-3.409	225.619

Schedule:

This submission reflects JSF Program Replan and is subject to further refinement as TEMP (Test and Evaluation Master Plan) and Test Plan documentation evolve.

Technical:

Additional design work and scope is required to achieve weight reduction in the Short Takeoff and Vertical Landing Aircraft (STOVL) variant, necessitating increase in cost and schedule. Other Adjustments include FY07 reprogramming of JSF Alternate Engine.

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5		PROGRAM ELEMENT NUMBER AND NAME 0604800N, JOINT STRIKE FIGHTER (JSF) PROGRAM			PROJECT NUMBER AND NAME 2261, JOINT STRIKE FIGHTER (JSF) PROGRAM			
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	2,183.164	1,991.733	1,701.832	1,518.670	1,016.454	1,030.304	724.859	650.701
RDT&E Articles Qty	1	4	10	7				

This Program Element continues development efforts budgeted in program element 0603800N prior to FY 2002.

Quantity of 15 RDT&E articles reflect flight test articles; 7 ground test articles are also budgeted in SDD which includes total program quantities for Navy and AF.

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

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 and 7 other International countries are participants in the JSF Program.

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B. Accomplishments/Planned Program

System Development and Demonstration	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	3,896.144	3,612.282	2,818.707	2,201.846
RDT&E Articles Quantity	1	4	10	7

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 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	741.955	718.995	623.395	386.545
RDT&E Articles Quantity				

Continue SDD execution of the F135 Propulsion System, with Pratt & Whitney using (ICE) which includes engine testing, autonomic logistics, integration and performing technology maturation efforts.

F136 Propulsion System	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	344.420	340.000		
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. Out-year funds beginning with FY07 were eliminated during the PB07 budget cycle; however, Congressional Add actions restored \$340M to Program in FY07.

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B. Accomplishments/Planned Program (Cont.)

Systems Engineering	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	56.329	64.522	47.417	36.685
RDT&E Articles Quantity				

Begin SDD Systems Engineering (SE) including systems operations requirements analysis, program integration, requirements integration, and interoperability support.

Development Test and Evaluation	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	80.400	128.675	149.200	255.970
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 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	115.253	104.937	293.362	370.093
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.)

Program Management Support	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	19.916	28.554	29.125	29.708
RDT&E Articles Quantity				

Continue SDD Systems Engineering (SE) including systems operations requirements analysis, program integration, requirements integration, and interoperability support.

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<p>C. OTHER PROGRAM FUNDING SUMMARY: This is a joint program with no executive service. Program Element 0604800F continues USAF development efforts budgeted in 0603800F prior to FY 2002. The United Kingdom and multiple other countries are participants in the SDD phase of JSF</p> <table border="0"> <thead> <tr> <th><u>RDTE:</u></th> <th><u>FY 2006</u></th> <th><u>FY 2007</u></th> <th><u>FY 2008</u></th> <th><u>FY 2009</u></th> <th><u>FY 2010</u></th> <th><u>FY 2011</u></th> <th><u>FY 2012</u></th> <th><u>FY 2013</u></th> <th><u>To Complete</u></th> <th><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>0604800F</td> <td>2,264.836</td> <td>2,132.924</td> <td>1,780.874</td> <td>1,541.202</td> <td>1,145.968</td> <td>789.053</td> <td>975.178</td> <td>734.894</td> <td>0.000</td> <td>17,787.930</td> </tr> <tr> <td>International Partner Funding</td> <td>802.492</td> <td>701.110</td> <td>478.500</td> <td>220.975</td> <td>166.230</td> <td>136.530</td> <td>6.500</td> <td>0.000</td> <td>0.000</td> <td>4,520.916</td> </tr> </tbody> </table> <p>RELATED RDTE: 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 FY05</p> <table border="0"> <thead> <tr> <th><u>RELATED PROCUREMENT:</u></th> <th><u>FY 2006</u></th> <th><u>FY 2007</u></th> <th><u>FY 2008</u></th> <th><u>FY 2009</u></th> <th><u>FY 2010</u></th> <th><u>FY 2011</u></th> <th><u>FY 2012</u></th> <th><u>FY 2013</u></th> </tr> </thead> <tbody> <tr> <td>0214146N (Quantity)</td> <td></td> <td>124.498</td> <td>1,232.162 (6)</td> <td>1,768.529 (8)</td> <td>3,375.113 (18)</td> <td>3,237.579 (19)</td> <td>5,422.725 (40)</td> <td>5,288.927 (42)</td> </tr> <tr> <td>0207142F (Quantity)</td> <td>117.447</td> <td>648.491 (2)</td> <td>1,461.713 (6)</td> <td>1,906.291 (8)</td> <td>2,457.303 (12)</td> <td>3,544.111 (24)</td> <td>4,914.085 (42)</td> <td>5,222.638 (48)</td> </tr> </tbody> </table>											<u>RDTE:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>	0604800F	2,264.836	2,132.924	1,780.874	1,541.202	1,145.968	789.053	975.178	734.894	0.000	17,787.930	International Partner Funding	802.492	701.110	478.500	220.975	166.230	136.530	6.500	0.000	0.000	4,520.916	<u>RELATED PROCUREMENT:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	0214146N (Quantity)		124.498	1,232.162 (6)	1,768.529 (8)	3,375.113 (18)	3,237.579 (19)	5,422.725 (40)	5,288.927 (42)	0207142F (Quantity)	117.447	648.491 (2)	1,461.713 (6)	1,906.291 (8)	2,457.303 (12)	3,544.111 (24)	4,914.085 (42)	5,222.638 (48)
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<u>RELATED SPARES AND REPAIR PARTS:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>
BLI 060510			84.981	40.499	232.852	185.114	252.942	358.306	TBD	TBD
<u>RELATED OTHER PROCURMENT NAVY:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>
BLI 426500			0.906	5.741	3.524	3.520	9.033	5.810	TBD	TBD
<u>RELATED MILCON:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>
0207142F	9.715		74.300	64.458	98.400	128.902	33.998	77.930	TBD	TBD
091211F	0.900									

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D. ACQUISITION STRATEGY:		
<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.</p>		
<p>The JSF Acquisition Strategy and updated program schedule were approved following the May 05 DAB.</p>		
<p>DoN Advance Procurement funding is scheduled for contract obligation during FY07 in support the DoN's FY08 aircraft procurement. USAF procurement of JSF aircraft will occur in FY07; USAF Advance Procurement funding was awarded during FY06.</p>		

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Exhibit R-3 Cost Analysis (page 1)							DATE: February 2007					
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 SDD						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hdw Develop - Air System	C/CPAF	Lockheed, Ft Worth TX	14,191.578	3,612.282	10/06	2,818.707	10/07	2,201.846	10/08	3,791.925	26,616.338	26,616.338
Award Fees (Non-Add-Budgeted)			(983.399)	(241.414)		(215.064)		(184.231)		(827.960)	(2,452.068)	
Award Fees (% Funded to Date)												
Primary Hdw Develop - Air System	SS/BOA	Lockheed Martin	5.630	0.000		0.000		0.000			5.630	5.630
Primary Hdw Develop - Air System	SS/IDIQ	Lockheed Martin	11.055	0.000		0.000		0.000			11.055	11.055
Primary Hdw Develop - F135 Engine	SS/CPAF	Pratt & Whitney, Hartford, CT	4,102.668	718.995	10/06	623.395	10/07	386.545	10/08	470.000	6,301.603	6,301.603
Award Fees (Non-Add-Budgeted)			(407.676)	(93.314)		(241.414)		(215.064)		(215.636)	(1,173.104)	
Award Fees (% Funded to Date)												
Prim Hdw Dev - F135 Engine	SS/BOA	Pratt & Whitney	36.016	0.000		0.000		0.000		0.000	36.016	36.016
Prim Hdw Dev - F135 Engine	SS/IDIQ	Pratt & Whitney	14.653	0.000		0.000		0.000		0.000	14.653	14.653
Primary Hdw Develop - F136 Engine	SS/CPAF	General Electric, Cinn, OH	488.339	0.000		0.000		0.000		0.000	488.339	2,466.259
Award Fees (Non-Add-Budgeted)			(53.440)	0.000		0.000		0.000		0.000	(53.440)	
Award Fees (% Funded to Date)												
Primary Hdw Develop - F136 Eng	SS/BOA	General Electric	5.548	0.000		0.000		0.000		0.000	5.548	5.548
Primary Hdw Develop - F136 Eng	SS/IDIQ	General Electric	4.262	0.000		0.000		0.000		0.000	4.262	4.262
Primary Hdw Develop - F136 Eng S	SS/CPAF	GE/RR Fighter Engineering	443.728	340.000	10/06	0.000		0.000		0.000	783.728	783.728
Award Fees (Non-Add)			(18.445)	(47.190)								
Systems Engineering	WX	Various	154.423	64.522	10/06	47.417	10/07	36.685	10/08	157.304	460.351	
Subtotal Product Development			19,457.900	4,735.799		3,489.519		2,625.076		4,419.229	34,727.523	

Remarks: Total cost includes both Navy, Air Force and International Cooperative Partners.

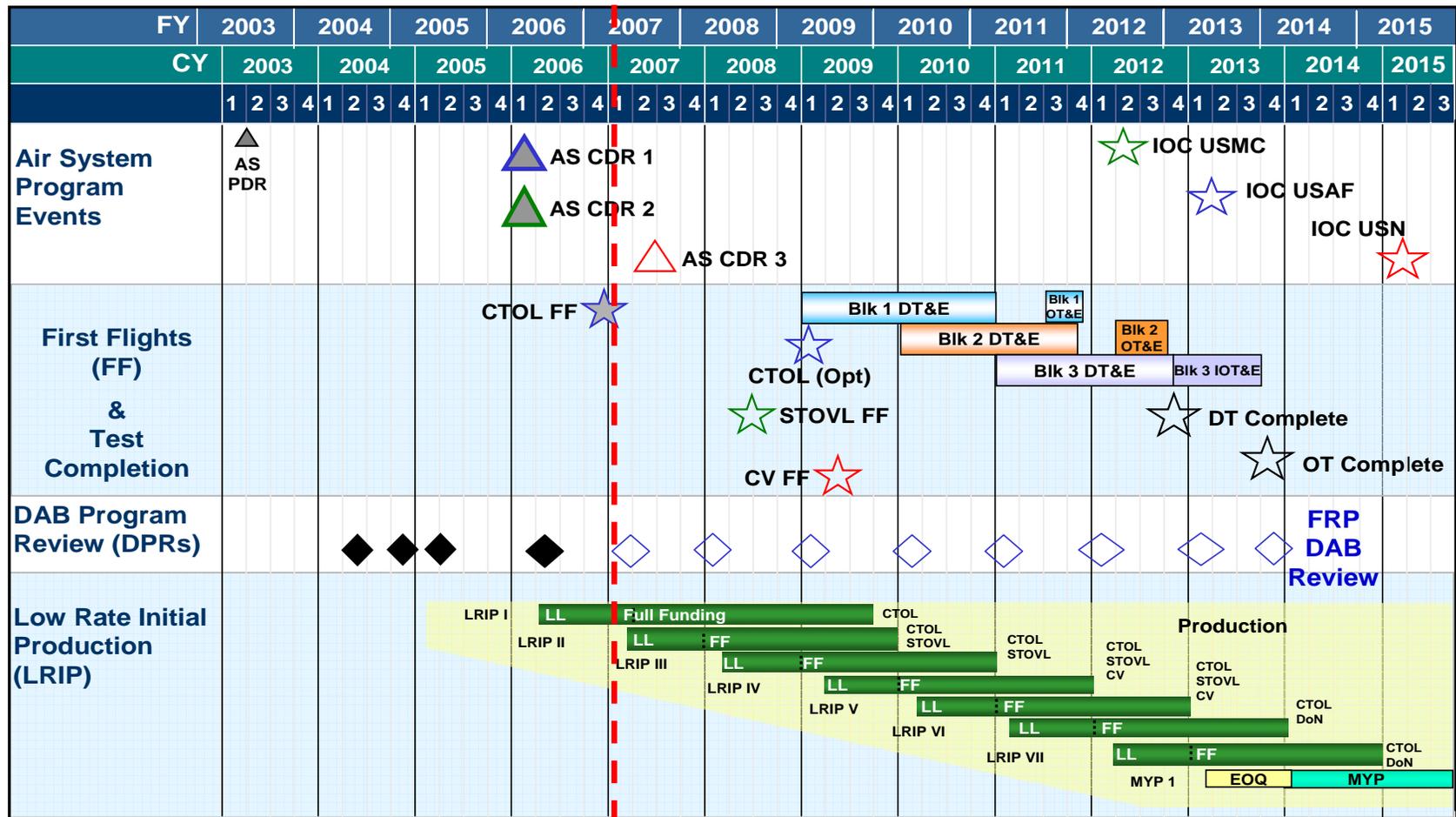
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Exhibit R-3 Cost Analysis (page 2)								DATE: February 2007				
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Government T&E											0.000	
Development Test & Evaluation	WX	NAWC Patuxent River	69.780	46.302	10/06	50.972	10/07	96.690	10/08	403.736	667.480	
Development Test & Evaluation	MIPR	Edwards AFB - AFFTC	67.482	38.317	10/06	35.752	10/07	48.620	10/08	186.359	376.530	
Development Test & Evaluation	WX	Various	26.419	19.322	10/06	6.409	10/07	30.470	10/08	189.990	272.610	
Development Test & Evaluation	WX	NAWC China Lake	20.149	14.391	10/06	4.406	10/07	5.060	10/08	40.623	84.629	
Development Test & Evaluation	MIPR	Eglin AFB	29.858	2.043	10/06	43.261	10/07	66.550	10/08	263.010	404.722	
Operation Test & Evaluation	WX/MIPR	COMOPTEVFOR Norfolk	4.400	8.300	10/06	8.400	10/07	8.580	10/08	266.200	295.880	
Subtotal T&E			218.088	128.675		149.200		255.970		1,349.918	2,101.851	
Remarks: Total cost includes both Navy , Air Force, and International Cooperative Partners.												
Program Management Support	SS/CPFF	Stanley, Arlington, VA	54.324	10.163	10/06	10.366	10/07	10.574	10/08	44.451	129.878	129.878
Program Management Support	SS/CPFF	Mantech, Arlington, VA	13.863	6.429	12/06	6.558	12/07	6.689	12/08	28.119	61.658	61.658
Travel	WX/MIPR	Various	8.097	11.962	10/06	12.201	10/07	12.445	10/08	52.321	97.026	
											0.000	
											0.000	
											0.000	
Subtotal Management			76.284	28.554		29.125		29.708		124.891	288.562	
Remarks: Total cost includes both Navy, Air Force and International Cooperative Partners. Prior Years reflect \$8,714,470 USN / \$8,687.837 USAF / \$2,811.071 International / Total \$20,213,378 FY 2007 reflects \$2,163.931 USN / \$2,132.924 USAF / \$701.110 International / Total \$4,997.964 FY 2008 reflects \$1,701.832 USN / \$1,780.874 USAF / \$478.500 International / Total \$3,961.206 FY 2009 reflects \$1,518.670 USN / \$1,541.202 USAF / \$220.975 International / Total \$3,280.847												
Total Cost			20,213.378	4,997.964		3,961.206		3,280.847		7,376.671	39,830.066	

EXHIBIT R4, Schedule Profile											DATE: February 2007			
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JSF Top-Level SDD Program Schedule



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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2007	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5		PROGRAM ELEMENT NUMBER AND NAME 0604800N, JOINT STRIKE FIGHTER (JSF) PROGRAM			PROJECT NUMBER AND NAME 3194, JOINT REPROGRAMMING CENTER			
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost			5.540	30.233	28.830	35.645	20.696	13.033
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Joint Strike Fighter (JSF) 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 and 7 other International countries are participants in the JSF Program.

The JSF Joint Reprogramming Center/Capability Concept is required to adequately develop and maintain Operation Sensor Engineering F-35(V) Mission Data to multi-service, multi-country, and multi-mission objectives. JRC will allow rapid operational response to threat changes. Funding for this project unit (3194) is provided specifically 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 Joint Strike Fighter SDD baseline.

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604800N, JOINT STRIKE FIGHTER (JSF) PROGRAM	PROJECT NUMBER AND NAME 3194, JOINT REPROGRAMMING CENTER

B. Accomplishments/Planned Program

System Development and Demonstration	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost			5.040	20.242
RDT&E Articles Quantity				

FY08 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 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost			0.500	9.991
RDT&E Articles Quantity				

Begin in FY08 SDD Systems Engineering (SE) including systems operations requirements analysis, program integration, requirements integration, and interoperability support of Joint Reprogramming Center.

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2007																							
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604800N, JOINT STRIKE FIGHTER (JSF) PROGRAM	PROJECT NUMBER AND NAME 3194, JOINT REPROGRAMMING CENTER																								
<p>C. OTHER PROGRAM FUNDING SUMMARY: This is a joint program with no executive service. Program Element 0604800F continues USAF development efforts budgeted in 0603800F.</p> <table border="1"> <thead> <tr> <th><u>RDT&E:</u></th> <th><u>FY 2006</u></th> <th><u>FY 2007</u></th> <th><u>FY 2008</u></th> <th><u>FY 2009</u></th> <th><u>FY 2010</u></th> <th><u>FY 2011</u></th> <th><u>FY 2012</u></th> <th><u>FY 2013</u></th> <th><u>To Complete</u></th> <th><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>0604800F</td> <td></td> <td></td> <td>43.000</td> <td>57.500</td> <td>15.000</td> <td>15.000</td> <td>12.500</td> <td>12.000</td> <td>TBD</td> <td>TBD</td> </tr> </tbody> </table> <p>Remarks: USAF is funding this requirement jointly with the USN beginning in FY08 under PE 0604800F</p> <p>D. ACQUISITION STRATEGY:</p> <p>The Joint Reprogramming Center (JRC) 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. Inter-Service collaboration is ongoing to formalize the JRC requirements planning process and will eliminate duplication of effort, maximize technology to improve configuration control, utilize advance networks, and ensure the implementation of an enterprise (single shared database) solution. This will capitalize on legacy platform synergy, operational mission data intellect, proven processes, and existing reprogramming center resources. This approach also will improve efficiencies, eliminate duplication, and influence JRC design. International partner collaboration on the JRC is being explored through the Joint Requirements Advisory Group. A Joint Command reprogramming authority will determine/manage reprogramming priorities and implementation authority.</p> <p>The JRC Mission data development strategy is based upon an assessment of legacy systems (including 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 intelligence data, and build-up of real-world scenarios for systems verification and validation. These efforts support JSF operational requirements, interoperability, and fratricide mitigation.</p> <p>Although the 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 JSF Reprogramming facility at Eglin AFB, a Satellite Reprogramming Facility at Pt. Mugu, NAS, and a Partner Reprogramming Facility (TBD).</p>					<u>RDT&E:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>	0604800F			43.000	57.500	15.000	15.000	12.500	12.000	TBD	TBD
<u>RDT&E:</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>																
0604800F			43.000	57.500	15.000	15.000	12.500	12.000	TBD	TBD																

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Exhibit R-3 Cost Analysis (page 1)										DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME					
RD&E, N / BA-5			0604800N, JOINT STRIKE FIGHTER (JSF) PROGRAM				3194, JOINT REPROGRAMMING CENTER					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hdw Develop - Air System	C/CPAF	Lockheed, Ft Worth TX	0.000			5.040	10/07	20.242	10/08		25.282	25.282
Award Fees (Non-Add-Budgeted)			0.000			(0.422)		(1.401)			(1.823)	
Award Fees (% Funded to Date)												
Subtotal Product Development			0.000	0.000		5.040		20.242			25.282	
Remarks:												

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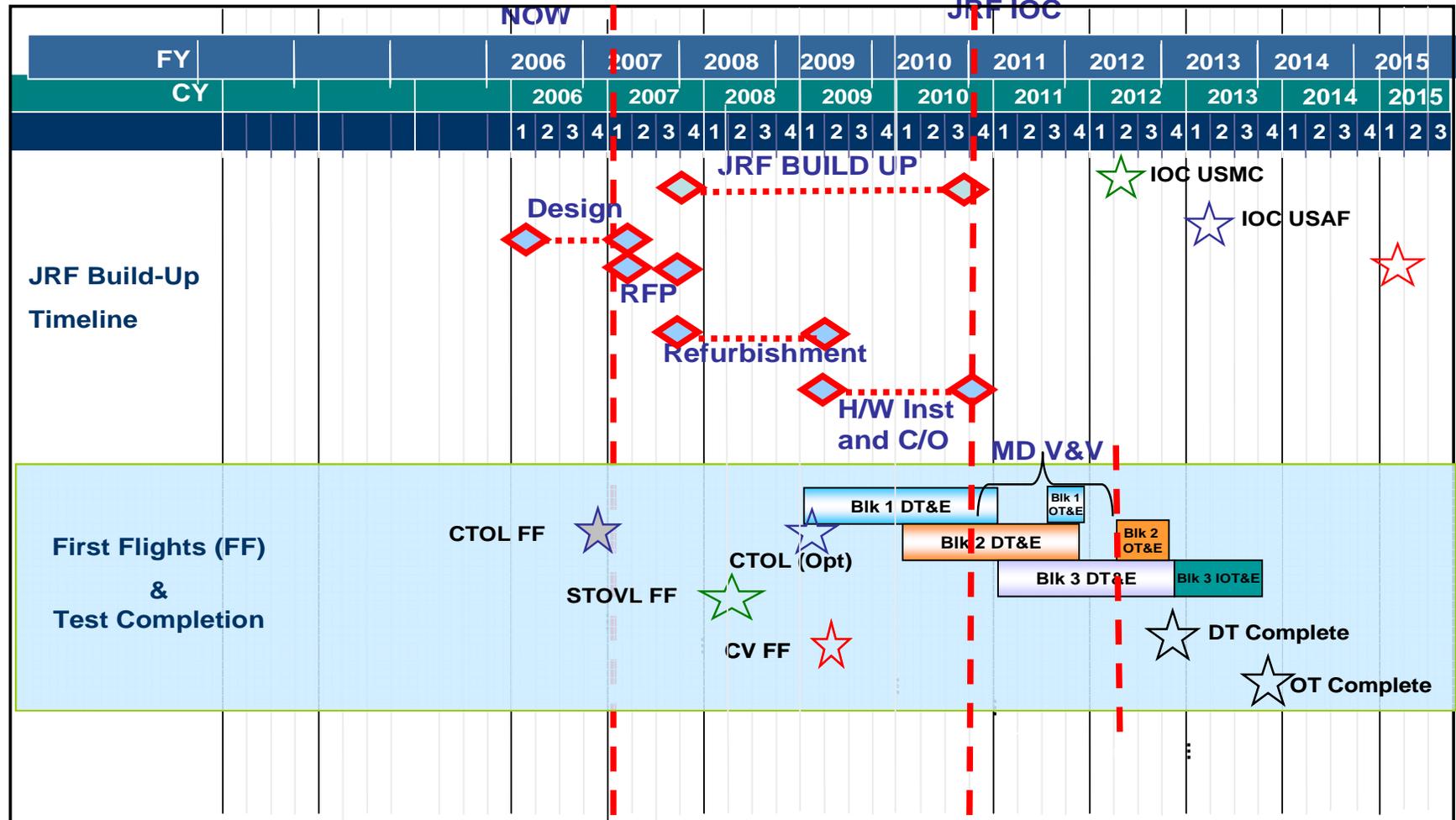
Exhibit R-3 Cost Analysis (page 1)										DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-5			0604800N, JOINT STRIKE FIGHTER (JSF) PROGRAM			3194, JOINT REPROGRAMMING CENTER						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Development Support	WX/MIPR	NAWC Patuxent River				0.250	10/07	5.241	10/08	Continuing	Continuing	
Development Support	WX/MIPR	NAWC China Lake				0.125	10/07	2.710	10/08	Continuing	Continuing	
Development Support	MIPR	Electronic Systems Comm				0.125	10/07	2.040	10/08	Continuing	Continuing	
Subtotal Support			0.000	0.000		0.500		9.991			0.000	
Subtotal T&E			0.000	0.000		0.000		0.000			0.000	
Subtotal Management			0.000	0.000		0.000		0.000			0.000	
Total Cost			0.000	0.000	0.000	5.540		30.233		Continuing	Continuing	
Remarks:												

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EXHIBIT R4, Schedule Profile		DATE: February 2007	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-05	PROGRAM ELEMENT NUMBER AND NAME 0604800N / JOINT STRIKE FIGHTER (JSF) PROGRAM	PROJECT NUMBER AND NAME 3194, JOINT REPROGRAMMING CENTER	

JRC Joint Development Schedule



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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2007	
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-5					R-1 ITEM NOMENCLATURE 0604800N, JOINT STRIKE FIGHTER (JSF) PROGRAM			
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	3.926	172.198						
RDT&E Articles Qty								
<p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: Congressional Adds to the Joint Strike Fighter Program include:</p> <p>FY 2006</p> <ol style="list-style-type: none"> 1) Innovative Technologies for JSF Core Processor to ensure the latest technological advances are incorporated into the JSF aircraft to include the avionics suite. 2) Lift Fan Thrust Growth Studies; the program will execute a detailed design of the enhanced capability gearbox identified in Phase I and execution of a successful Critical Design Review (CDR) of the PDR design. 3) Engine Weight Reduction is incorporated in order to reduce schedule risk and achieve JSF program weight milestones, P&W is being funded to help achieve an overall System level solution to reduce F-35 STOVL weight. This project will benefit the JSF Program through lowering System weight at the lowest System level cost while minimizing schedule risk to the program. <p>FY 2007</p> <ol style="list-style-type: none"> 1) Innovative Technologies for JSF Core Processor to ensure the latest technological advances are incorporated into the JSF aircraft to include the avionics suite. 2) JSF Head Exchanger Development Weight Reduction and Performance 3) Maintain Development of 2nd Source for Engine GE/FET (General Electric/Fighter Engine Team). 								

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604800N, JOINT STRIKE FIGHTER (JSF) PROGRAM	PROJECT NUMBER AND NAME 9999 Congressional Adds

B. Accomplishments/Planned Program (Breakout reflects USN only funding)

2261N	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	1.314	1.200		
RDT&E Articles Quantity				

Innovative Technologies for JSF Core Processor - Contractor will provide design and development of emergent technologies to ensure the F-35 has the leading-edge technology required to support the platform in current environments.

2261N	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	1.653			
RDT&E Articles Quantity				

Thrust Growth Studies - Previous orders established a three phase program to define a F-35 STOVL Lift System growth strategy, and execute a technology development and component design activity for two key drive system components, the clutch and gearbox. This follow-on program will continue the design and development of an enhanced capability gearbox to support future Lift Fan thrust growth.

2261C	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.959			
RDT&E Articles Quantity				

Engine Weight Reduction - The objective of this effort is to conduct selected tasks that achieve STOVL Weight Reduction for the F135 Propulsion System to mitigate the weight increases driven by F135 Replan Contract. These weight reduction configuration changes shall be qualified and incorporated into the F135 Propulsion System.

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B. Accomplishments/Planned Program (Breakout reflects USN only funding)

2261C	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost		0.998		
RDT&E Articles Quantity				

To provide funds for JSF Heat Exchanger Development and Weight Reduction & Performance requirements of the Joint Strike Fighter aircraft. This effort will provide tests for optimum weight and heat ratios evaluation.

2261C	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost		170.000		
RDT&E Articles Quantity				

Maintain Development of 2nd source for F-35, Lightning II engine GE/FET (General Electric/Fighter Engine Team). 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 0603800N and 0603800F). Efforts include technology maturation, engine testing, autonomic logistics and integration. Out-year funds beginning with FY07 were reduced during the 2007 Budget Cycle; Congressional Add actions restored \$170M DoN and \$170M USAF funding to the JSF Program.

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