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CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: February 2008	
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-5					R-1 ITEM NOMENCLATURE 0604800N, JOINT STRIKE FIGHTER (JSF) PROGRAM			
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost		2,109.426	1,868.046	1,532.748	1,028.674	1,053.934	736.711	657.544
2261 JSF		1,938.423	1,524.702	1,502.947	1,000.185	1,018.629	716.176	644.583
3194 Joint Reprogramming Center			5.505	29.801	28.489	35.305	20.535	12.961
9999 Congressional Adds		171.003	337.839					
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 Adds currently being included in the program planning and development.								

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B. PROGRAM CHANGE SUMMARY:

	FY 07	FY 08	FY 09
Funding:			
FY 2008 President's Budget:	2,163.931	1,707.372	1,548.903
FY 2009 President's Budget	2,109.426	1,868.046	1,532.748
Total Adjustments	-54.505	160.674	-16.155
Summary of Adjustments			
Congressional Reductions		-141.600	
Congressional Rescissions			
Congressional Increases		340.000	
Congressional Undistributed Reductions	-53.310	-37.726	
Economic Assumptions	0.005		-5.225
Miscellaneous Adjustments	-1.200	0.000	-10.930
Subtotal	-54.505	160.674	-16.155

Schedule:

Not Applicable

Technical:

Not Applicable

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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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost		1,938.423	1,524.702	1,502.947	1,000.185	1,018.629	716.176	644.583
RDT&E Articles Qty			6	12				

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

RDT&E articles include 13 flight test articles (including 1 in FY06) and 6 ground test articles. This is the total program test article 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 Navy and Air Force funding is combined on the following pages. The United Kingdom and 7 other International countries are participants in the JSF Program.

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APPROPRIATION/BUDGET ACTIVITY RDTE, N /BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604800N, JOINT STRIKE FIGHTER (JSF) PROGRAM	PROJECT NUMBER AND NAME 2261, JOINT STRIKE FIGHTER (JSF) PROGRAM SDD																	
B. Accomplishments/Planned Program																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">System Development and Demonstration</td> <td style="width: 10%;"></td> <td style="width: 15%;">FY 07</td> <td style="width: 15%;">FY 08</td> <td style="width: 15%;">FY 09</td> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td></td> <td style="text-align: right;">3,409.493</td> <td style="text-align: right;">2,677.102</td> <td style="text-align: right;">2,118.409</td> </tr> <tr> <td>RDT&E Articles Quantity</td> <td></td> <td style="text-align: center;">6</td> <td style="text-align: center;">12</td> <td></td> </tr> </table> 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.					System Development and Demonstration		FY 07	FY 08	FY 09	Accomplishments/Effort/Subtotal Cost		3,409.493	2,677.102	2,118.409	RDT&E Articles Quantity		6	12	
System Development and Demonstration		FY 07	FY 08	FY 09															
Accomplishments/Effort/Subtotal Cost		3,409.493	2,677.102	2,118.409															
RDT&E Articles Quantity		6	12																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">F135 Propulsion System</td> <td style="width: 10%;"></td> <td style="width: 15%;">FY 07</td> <td style="width: 15%;">FY 08</td> <td style="width: 15%;">FY 09</td> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td></td> <td style="text-align: right;">754.246</td> <td style="text-align: right;">715.000</td> <td style="text-align: right;">439.000</td> </tr> <tr> <td>RDT&E Articles Quantity</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> 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.					F135 Propulsion System		FY 07	FY 08	FY 09	Accomplishments/Effort/Subtotal Cost		754.246	715.000	439.000	RDT&E Articles Quantity				
F135 Propulsion System		FY 07	FY 08	FY 09															
Accomplishments/Effort/Subtotal Cost		754.246	715.000	439.000															
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">F136 Propulsion System</td> <td style="width: 10%;"></td> <td style="width: 15%;">FY 07</td> <td style="width: 15%;">FY 08</td> <td style="width: 15%;">FY 09</td> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td></td> <td style="text-align: right;">341.290</td> <td style="text-align: right;">480.000</td> <td style="text-align: right;">0.000</td> </tr> <tr> <td>RDT&E Articles Quantity</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> 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. Congressional actions added \$340M to F136 Propulsion System in FY07 and \$480M in FY08.					F136 Propulsion System		FY 07	FY 08	FY 09	Accomplishments/Effort/Subtotal Cost		341.290	480.000	0.000	RDT&E Articles Quantity				
F136 Propulsion System		FY 07	FY 08	FY 09															
Accomplishments/Effort/Subtotal Cost		341.290	480.000	0.000															
RDT&E Articles Quantity																			

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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 SDD																	
B. Accomplishments/Planned Program (Cont.)																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Systems Engineering</td> <td style="width: 10%;"></td> <td style="width: 15%;">FY 07</td> <td style="width: 15%;">FY 08</td> <td style="width: 15%;">FY 09</td> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td></td> <td>56.676</td> <td>42.711</td> <td>34.551</td> </tr> <tr> <td>RDT&E Articles Quantity</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> Continue SDD Systems Engineering (SE) including systems operations requirements analysis, program integration, requirements integration, and interoperability support.					Systems Engineering		FY 07	FY 08	FY 09	Accomplishments/Effort/Subtotal Cost		56.676	42.711	34.551	RDT&E Articles Quantity				
Systems Engineering		FY 07	FY 08	FY 09															
Accomplishments/Effort/Subtotal Cost		56.676	42.711	34.551															
RDT&E Articles Quantity																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Development Test and Evaluation</td> <td style="width: 10%;"></td> <td style="width: 15%;">FY 07</td> <td style="width: 15%;">FY 08</td> <td style="width: 15%;">FY 09</td> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td></td> <td>95.407</td> <td>149.000</td> <td>232.756</td> </tr> <tr> <td>RDT&E Articles Quantity</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> 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 Test and Evaluation		FY 07	FY 08	FY 09	Accomplishments/Effort/Subtotal Cost		95.407	149.000	232.756	RDT&E Articles Quantity				
Development Test and Evaluation		FY 07	FY 08	FY 09															
Accomplishments/Effort/Subtotal Cost		95.407	149.000	232.756															
RDT&E Articles Quantity																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Development Support</td> <td style="width: 10%;"></td> <td style="width: 15%;">FY 07</td> <td style="width: 15%;">FY 08</td> <td style="width: 15%;">FY 09</td> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td></td> <td>181.459</td> <td>218.243</td> <td>367.558</td> </tr> <tr> <td>RDT&E Articles Quantity</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> Continue SDD Support efforts for airframe, air vehicle systems, mission systems, weapons integration, mission support, and autonomic logistics development activities.					Development Support		FY 07	FY 08	FY 09	Accomplishments/Effort/Subtotal Cost		181.459	218.243	367.558	RDT&E Articles Quantity				
Development Support		FY 07	FY 08	FY 09															
Accomplishments/Effort/Subtotal Cost		181.459	218.243	367.558															
RDT&E Articles Quantity																			

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B. Accomplishments/Planned Program (Cont.)				
Program Management Support		FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost		45.191	51.222	57.734
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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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA-5	0604800N, JOINT STRIKE FIGHTER (JSF) PRO	2261, JOINT STRIKE FIGHTER (JSF) SDD

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 FY 2002. The United Kingdom and other International countries are participants in the SDD phase of JSF.

<u>RDT&E:</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 Joint Strike Fighter	2,074.021	1,991.537	1,524.016	1,132.458	779.303	966.018	728.031	0.000	17,883.221
International Partner Funding	700.315	479.200	223.045	171.450	144.030	16.900	9.300	0.000	4,555.311

* Note: Total cost includes FY2006 and prior funding received for JSF SDD Program.

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.

<u>RELATED PROCUREMENT:</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>
0214146N P-1 No. 6 F-35 (JSF) Joint Strike Fighter (Quantity)	124.498	1,223.834 (6)	1,860.898 (8)	3,334.394 (18)	3,201.247 (19)	5,384.432 (40)	5,262.819 (42)	64,286.790	84,678.912
0207142F P-1 No. 1 F-35 (Quantity)	647.761 (2)	1,449.136 (6)	1,896.384 (8)	2,437.298 (12)	3,514.821 (24)	4,872.043 (42)	5,178.132 (48)	140,191.838	160,187.413

** Note: Procurement and Spares Cost to Complete is based on SAR-06 cost model.

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<u>RELATED SPARES AND REPAIR PARTS:</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, BPAC: 16F35A		76.067	37.039	85.693	121.548	226.788	355.420	372.760	11,239.842	12,515.157
BLI 060510			0.000	35.128	230.912	174.837	255.853	350.513	4,050.389	5,097.632
<u>RELATED OTHER PROCUREMENT NAVY:</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			0.855	2.981	6.142	6.225	6.127	5.732	12.238	40.300
<u>RELATED MILCON:</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			74.300	22.100	95.743	164.795	33.267	75.952	TBD	TBD
 * Note: Procurement and Spares Cost to Complete is based on SAR-06 cost model										

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D. ACQUISITION STRATEGY: 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 continued propulsion development efforts through FY08. The updated JSF Acquisition Strategy and program schedule were approved following the May 05 DAB. APR 06 DAB authorized LRIP I full funding procurement. DoN Advance Procurement funding was obligated in FY 07 in support of the DoN's FY08 aircraft procurement. USAF regular procurement funding for LRIP 1 JSF aircraft was awarded during FY07 USAF Advance Procurement funding was awarded during FY06. USAF Advanced Procurement funding for LRIP II was awarded during FY07.		

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Exhibit R-3 Cost Analysis (page 1)							DATE: February 2008					
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RDT&E, BA-5			0604800N, JOINT STRIKE FIGHTER (JSF) P			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	14,212.404	3,407.144	10/06	2,677.102	10/07	2,118.409	10/08	4,809.758	27,224.817	25,904.288
Award Fees (Non-Add-Budgeted)			(983.399)	(251.690)		(239.112)		(212.368)		(687.655)	(2,374.224)	
Award Fees (% Funded to Date)			100%								1.000	
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	15.824	2.349		0.000		0.000			18.173	18.173
Primary Hdw Develop - F135 Engine	SS/CPAF	Pratt&Whit, Hartford, CT	4,100.154	754.221	10/06	715.000	10/07	439.000	10/08	385.000	6,393.376	5,901.589
Award Fees (Non-Add-Budgeted)			(403.402)	(88.541)		(93.892)		(68.192)		(99.995)	(754.022)	
Award Fees (% Funded to Date)			100%								1.000	
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	0.025		0.000		0.000		0.000	14.677	14.703
Primary Hdw Develop - F136 Engine	SS/CPAF	General Elect, Cinn, OH	382.753	0.000		0.000		0.000		0.000	382.753	382.753
Award Fees (Non-Add-Budgeted)			(52.509)	(34.194)		(49.039)		0.000		0.000	(135.742)	
Award Fees (% Funded to Date)			100%								1.000	
Primary Hdw Develop - F136 Eng	SS/BOA	General Electric	5.548	0.800		0.000		0.000		0.000	6.348	6.348
Primary Hdw Develop - F136 Eng	SS/IDIQ	General Electric	109.849	0.000		0.000		0.000		0.000	109.849	109.849
Primary Hdw Develop - F136 Eng SDD	SS/CPAF	GE/RR Fighter Engin	443.729	340.489	10/06	480.000		0.000		0.000	1,264.219	2,489.889
Systems Engineering	WX	Various	121.126	56.676	10/06	42.711	10/07	34.551	10/08	150.247	405.311	0.000
Subtotal Product Development			19,447.686	4,561.705		3,914.813		2,591.960		5,345.005	35,861.169	TBD
Remarks: Total cost includes Navy, Air Force and International Cooperative Partners contributions. Target Value of Contract reflects the projected contract value at the completion of SDD program.												

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Exhibit R-3, RDTEN Project Cost Analysis

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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
Development Support	WX	AFFTC/Eglin	32.693	13.622	10/06	9.620	10/07	18.056	10/08	28.692	102.683	
Development Support	WX	ASC/AFRL	21.970	6.733	10/06	4.802	10/07	8.180	10/08	15.540	57.225	
Development Support	WX	Bolling AFB	0.375	4.190	10/06	4.141	10/07	1.107	10/08	2.074	11.887	
Development Support	MIPR	DMEA	0.673	5.049	10/06	12.226	10/07	-	10/08	0.000	17.948	
Development Support	MIPR	ESC	5.455	0.510	10/06	2.746	10/07	1.725	10/08	0.696	11.132	
Development Support	MIPR	AEDC/Fuel	12.431	53.220	10/06	76.034	10/07	123.954	10/08	106.944	372.583	
Development Support	WX/MIPR	Jacksonville	0.916	1.681	10/06	1.736	10/07	3.062	10/08	5.820	13.215	
Development Support	MIPR	Various	163.477	18.359	10/06	29.915	10/07	54.513	10/08	90.290	356.554	
Development Support	MIPR	NAWC China Lake	40.944	16.875	10/06	17.592	10/07	37.578	10/08	71.047	184.036	
Development Support	WX	NAWC TSD	1.373	2.311	10/06	-	10/07	5.034	10/08	9.646	18.364	
Development Support	WX	NAWC Patuxent River	138.389	54.602	10/06	54.278	10/07	106.860	10/08	192.834	546.963	
Development Support	MIPR	NSWC	0.845	1.402	10/06	0.970	10/07	2.156	10/08	4.080	9.453	
Development Support	WX	SPAWAR	2.059	2.905	10/06	4.183	10/07	5.333	10/08	10.123	24.603	
											0.000	
											0.000	
											0.000	
											0.000	
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											0.000	
											0.000	
											0.000	
											0.000	
Subtotal Support			421.600	181.459		218.243		367.558		537.786	1,726.646	
Remarks: Total cost includes Navy, Air Force and International Cooperative Partners contributions.												

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Exhibit R-3 Cost Analysis (page 2)							DATE: February 2008					
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
Government T&E											0.000	
Development Test & Evaluation	WX	NAWC Patuxent River	70.102	24.022	10/06	57.000	10/07	97.000	10/08	384.217	632.341	
Development Test & Evaluation	MIPR	Edwards AFB - AFFTC	74.682	31.752	10/06	49.550	10/07	88.100	10/08	403.250	647.335	
Development Test & Evaluation	WX	Various	26.733	9.541	10/06	4.965	10/07	29.165	10/08	139.260	209.665	
Development Test & Evaluation	WX	NAWC China Lake	23.941	4.499	10/06	8.730	10/07	8.779	10/08	32.815	78.764	
Development Test & Evaluation	MIPR	Eglin AFB	15.928	17.049	10/06	20.055	10/07	0.415	10/08	7.300	60.747	
Development Test & Evaluation	MIPR	JITC	0.150	0.240	10/06	0.300	10/07	1.497	10/08	13.383	15.570	
Operation Test & Evaluation	WX/MIPR	Various	4.195	8.304	10/06	8.400	10/07	7.800	10/08	242.000	270.699	
Subtotal T&E			215.731	95.407		149.000		232.756		1,222.225	1,915.121	
Remarks: Total cost includes Navy, Air Force and International Cooperative Partners contributions.												
Program Management Support	SS/CPFF	Stanley, Arlington, VA	57.897	13.731	10/06	16.382	10/07	16.228	10/08	53.715	157.953	
Program Management Support	SS/CPFF	Mantech, Arlington, VA	14.800	5.700	12/06	6.942	12/07	7.000	12/08	32.000	66.442	
Travel	WX/MIPR	Various	13.465	4.543	10/06	4.340	10/07	10.648	10/08	44.833	77.829	
Program Management Support	C/CPAF	Sverdrup/Anteon, Ari, VA	20.006	10.889	12/06	12.070	12/07	13.550	12/08	44.851	101.366	
Program Management Support	SS/CPFF	Wyle Labs (AI-ES), Ari, Va	22.193	10.328	12/06	11.488	12/07	10.308	12/08	46.648	100.965	
Subtotal Management			128.361	45.191		51.222		57.734		222.047	504.555	
Remarks: Total cost includes Navy, Air Force and International Cooperative Partners contributions. Prior Years reflect \$8,714,470 USN / \$8,687.837 USAF / \$2,811.071 International / Total \$20,213,378 FY 2007 reflects \$2,109,426 USN / \$2,074.021 USAF / \$700.315 International / Total \$4,883.762 FY 2008 reflects \$1,862.541 USN / \$1,991.537USAF / \$479.200 International / Total \$4,333.278 FY 2009 reflects \$1,502.947 USN / \$1,524.016 USAF / \$223.045 International / Total \$3,250.008												
Total Cost			20,213.378	4,883.762		4,333.278		3,250.008		7,327.063	40,007.490	

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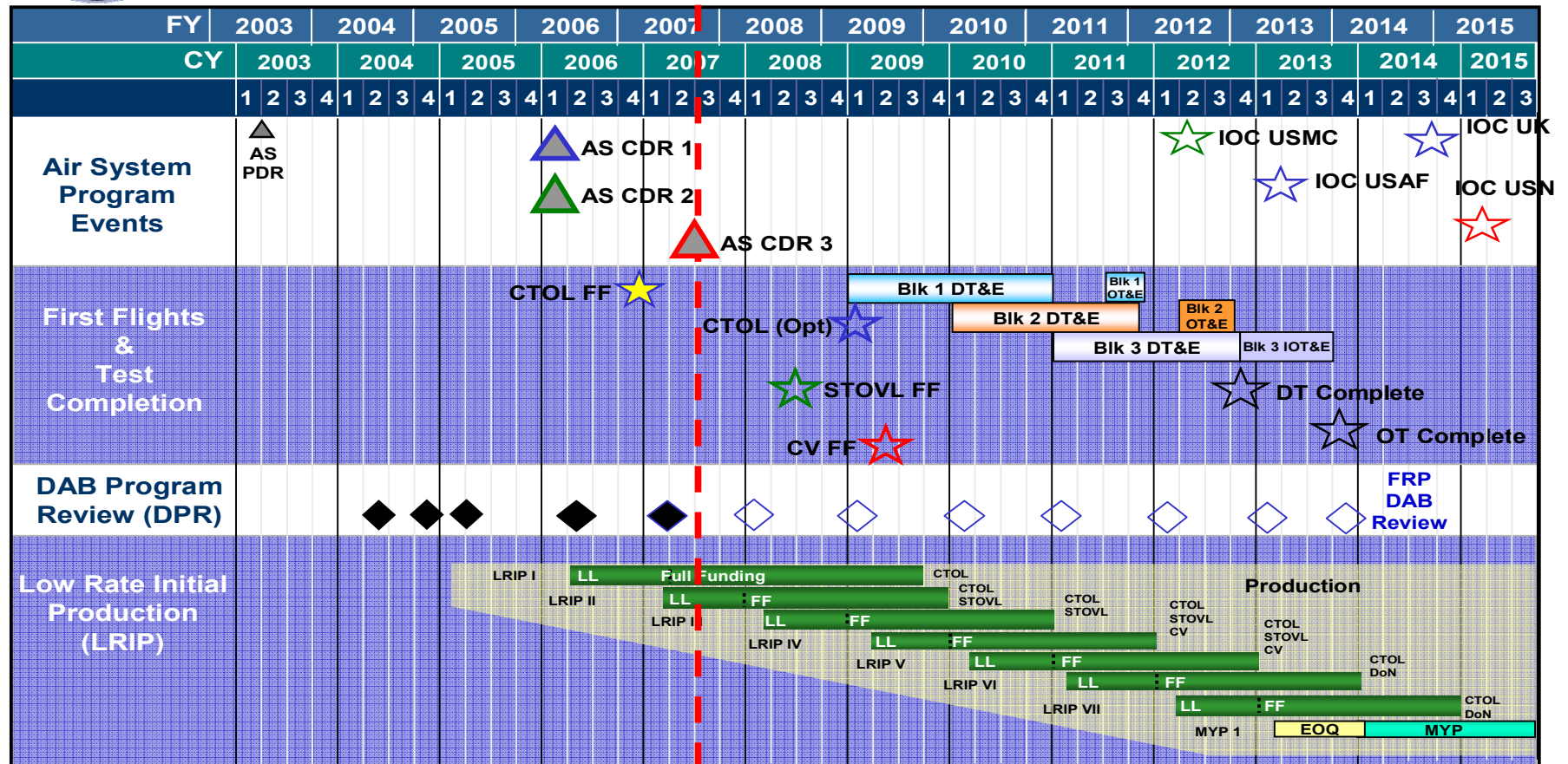
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CLASSIFICATION:

EXHIBIT R4, Schedule Profile			DATE: February 2008		
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME		PROJECT NUMBER AND NAME	
RDT&E, N / BA-05		0604800N / JOINT STRIKE FIGHTER (JSF) PROGRAM		2261 / JOINT STRIKE FIGHTER SDD	



JSF Top-Level SDD Program Schedule



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Exhibit R-4a, RDTEN Schedule Detail

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2008	
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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost			5.505	29.801	28.489	35.305	20.535	12.961
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 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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Exhibit R-2a, RDTEN Project Justification

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2008																
APPROPRIATION/BUDGET ACTIVITY RDTE, 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																			
<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 30%;">System Development and Demonstration</td><td style="width: 10%;"></td><td style="width: 10%; text-align: center;">FY 07</td><td style="width: 10%; text-align: center;">FY 08</td><td style="width: 10%; text-align: center;">FY 09</td></tr><tr><td>Accomplishments/Effort/Subtotal Cost</td><td></td><td></td><td style="text-align: center;">5.005</td><td style="text-align: center;">20.009</td></tr><tr><td>RDTE Articles Quantity</td><td></td><td></td><td></td><td></td></tr></table>					System Development and Demonstration		FY 07	FY 08	FY 09	Accomplishments/Effort/Subtotal Cost			5.005	20.009	RDTE Articles Quantity				
System Development and Demonstration		FY 07	FY 08	FY 09															
Accomplishments/Effort/Subtotal Cost			5.005	20.009															
RDTE Articles Quantity																			
<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 30%;">Development Support</td><td style="width: 10%;"></td><td style="width: 10%; text-align: center;">FY 07</td><td style="width: 10%; text-align: center;">FY 08</td><td style="width: 10%; text-align: center;">FY 09</td></tr><tr><td>Accomplishments/Effort/Subtotal Cost</td><td></td><td></td><td style="text-align: center;">0.500</td><td style="text-align: center;">8.892</td></tr><tr><td>RDTE Articles Quantity</td><td></td><td></td><td></td><td></td></tr></table>					Development Support		FY 07	FY 08	FY 09	Accomplishments/Effort/Subtotal Cost			0.500	8.892	RDTE Articles Quantity				
Development Support		FY 07	FY 08	FY 09															
Accomplishments/Effort/Subtotal Cost			0.500	8.892															
RDTE Articles Quantity																			

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2008																	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604800N, JOINT STRIKE FIGHTER (JSF) PROGR	PROJECT NUMBER AND NAME 3194, JOINT REPROGRAMMING CENTER																		
C. OTHER PROGRAM FUNDING SUMMARY: This is a joint program with no executive service. Program Element 0604800F continues USAF development efforts budgeted in 0603800F. <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 30%;"><u>RDT&E:</u></th> <th style="text-align: center; width: 10%;"><u>FY 2007</u></th> <th style="text-align: center; width: 10%;"><u>FY 2008</u></th> <th style="text-align: center; width: 10%;"><u>FY 2009</u></th> <th style="text-align: center; width: 10%;"><u>FY 2010</u></th> <th style="text-align: center; width: 10%;"><u>FY 2011</u></th> <th style="text-align: center; width: 10%;"><u>FY 2012</u></th> <th style="text-align: center; width: 10%;"><u>FY 2013</u></th> </tr> </thead> <tbody> <tr> <td>0604800F</td> <td></td> <td style="text-align: center;">43.000</td> <td style="text-align: center;">57.500</td> <td style="text-align: center;">15.000</td> <td style="text-align: center;">15.000</td> <td style="text-align: center;">12.500</td> <td style="text-align: center;">12.000</td> </tr> </tbody> </table> Remarks: USAF is funding this requirement jointly with the USN beginning in FY08 under PE 0604800F. D. ACQUISITION STRATEGY: 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 Reprogramming Action Group. A Joint Command reprogramming authority will determine/manage reprogramming priorities and implementation authority. The JRC 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 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.					<u>RDT&E:</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>	0604800F		43.000	57.500	15.000	15.000	12.500	12.000
<u>RDT&E:</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>													
0604800F		43.000	57.500	15.000	15.000	12.500	12.000													

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Exhibit R-2a, RDTEN Project Justification

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Exhibit R-3 Cost Analysis (page 1)								DATE: February 2008			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5			PROGRAM ELEMENT 0604800N, JOINT STRIKE FIGHTER (JSF) PROGRAM			PROJECT NUMBER AND NAME 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
Development Support	WX/MIPR	NAWC Patuxent River				0.250	01/08	4.142	10/08	Continuing	Continuing
Development Support	WX/MIPR	NAWC China Lake				0.125	01/08	2.710	10/08	Continuing	Continuing
Development Support	MIPR	Electronic Systems Comm				0.125	01/08	2.040	10/08	Continuing	Continuing
Subtotal Support			0.000	0.000		0.500		8.892			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	5.505		29.801		Continuing	Continuing
Remarks:											

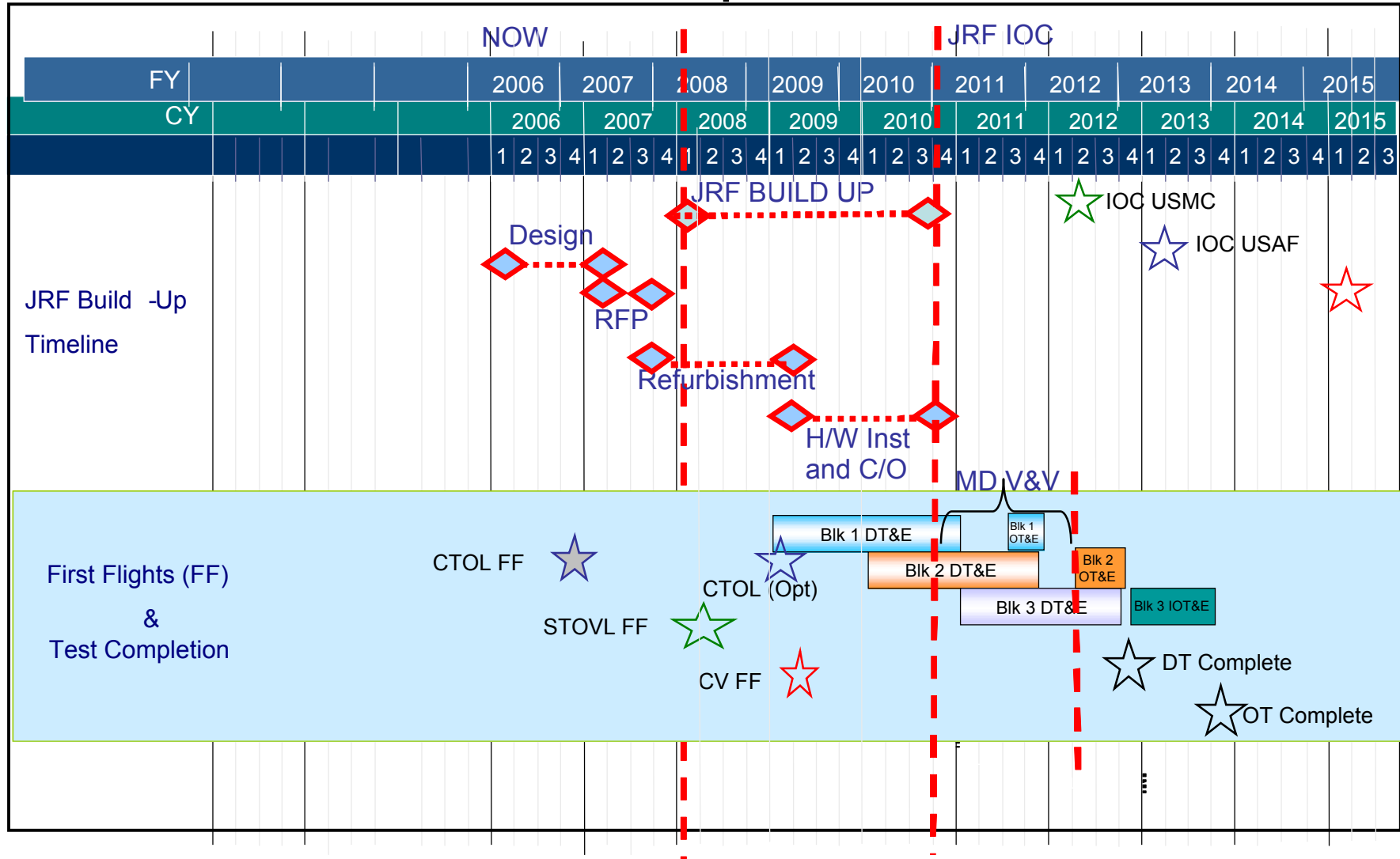
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EXHIBIT R4, Schedule Profile						DATE: February 2008	
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME	
RDT&E, N / BA-05			0604800N / JOINT STRIKE FIGHTER (JSF) PROGRAM			3194 / JOINT REPROGRAMMING CENTER	

JRC Joint Development Schedule



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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2008	
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-5					R-1 ITEM NOMENCLATURE 0604800N, JOINT STRIKE FIGHTER (JSF) PROGRAM			
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost		171.003	337.839					
RDT&E Articles Qty								
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: Congressional Adds to the Joint Strike Fighter Program include: FY 2007 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). FY 2008 1) F136 Fighter Engine Team (FET) Alternate Engine incremental funding. 2) Production Affordability Initiatives								

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Exhibit R-2a, RDTEN Project Justification

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2008																
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)																			
<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 30%; padding: 2px;">2261C</td><td style="width: 10%;"></td><td style="width: 15%; text-align: center; padding: 2px;">FY 07</td><td style="width: 15%; text-align: center; padding: 2px;">FY 08</td><td style="width: 15%; text-align: center; padding: 2px;">FY 09</td></tr><tr><td style="padding: 2px;">Accomplishments/Effort/Subtotal Cost</td><td></td><td style="text-align: center; padding: 2px;">1.003</td><td></td><td></td></tr><tr><td style="padding: 2px;">RDT&E Articles Quantity</td><td></td><td></td><td></td><td></td></tr></table> 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 07	FY 08	FY 09	Accomplishments/Effort/Subtotal Cost		1.003			RDT&E Articles Quantity				
2261C		FY 07	FY 08	FY 09															
Accomplishments/Effort/Subtotal Cost		1.003																	
RDT&E Articles Quantity																			
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2261C		FY 07	FY 08	FY 09															
Accomplishments/Effort/Subtotal Cost		170.000	237.839																
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2261C		FY 07	FY 08	FY 09															
Accomplishments/Effort/Subtotal Cost			100.000																
RDT&E Articles Quantity																			

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Exhibit R-2a, RDTEN Project Justification

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