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EXHIBIT R-2, RDT&E Budget Item Justification								DATE: February 2002			
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-5						R-1 ITEM NOMENCLATURE Program Element 0604800N, JOINT STRIKE FIGHTER (JSF) PROGRAM					
COST (\$ in Millions)	Prior Year Cost		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Total PE Cost				762.957	1,727.500	1,931.753	2,489.103	1,987.246	1,689.760	Continuing	TBD
D2261/JSF SDD				762.957	1,727.500	1,931.753	2,489.103	1,987.246	1,689.760	Continuing	TBD
Quantity of RDT&E Articles											14
<p>(U) 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, and USMC and allies, with optimum commonality among the variants 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 (UK) is a partner in this phase, and agreements with several other countries are in negotiation.</p> <p>(U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under SYSTEM DEVELOPMENT AND DEMONSTRATION (SDD) because it encompasses system development and demonstration of new end-items prior to production approval decision.</p>											

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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 D2261/JOINT STRIKE FIGHTER SDD					
COST (\$ in Millions)	Prior Year Cost		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost				762.957	1,727.500	1,931.753	2,489.103	1,987.246	1,689.760	Continuing	TBD
RDT&E Articles Qty											14

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

(U) 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, and USMC and allies, with optimum commonality among the variants 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 (UK) is a partner in this phase, and agreements with several other countries are in negotiation.

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. FY 2001 ACCOMPLISHMENTS: Not Applicable. (FY 2001 appropriated funding was reprogrammed to Program Element 0603800N.)

2. FY 2002 PLANS: (Breakout reflects Navy, Air Force and UK funding only; excludes TBD anticipated other international funding)

- (U) (\$1,476.500) Commence execution of System Development and Demonstration (SDD) for Air System with Lockheed Martin and F135 Propulsion System with Pratt & Whitney.

- (U) (\$ 44.900) Continue General Electric's development of a second, interchangeable JSF engine (GE F136) for competition in production (previously begun in associated program elements 0603800N and 0603800F).

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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 D2261/JOINT STRIKE FIGHTER SDD																
<p>- (U) (\$ 98.450) Commence SDD mission support including systems engineering activities, modeling, simulation and analysis efforts and program office functions.</p> <p>- (U) (\$1,619.850) Total FY 2002 Plans</p> <p>3. FY 2003 PLANS: (Breakout reflects Navy, Air Force and UK funding only; excludes TBD anticipated other international funding)</p> <p>- (U) (\$3,192.000) Continue execution of SDD for Air System with Lockheed Martin and F135 Propulsion System with Pratt & Whitney.</p> <p>- (U) (\$ 150.000) Continue General Electric's development of a second, interchangeable JSF engine (GE F136) for competition in production.</p> <p>- (U) (\$ 290.168) Continue SDD mission support including systems engineering activities, modeling, simulation and analysis efforts and program office functions.</p> <p>- (U) (\$3,632.168) Total FY 2003 Plans</p> <p>(U) B. PROGRAM CHANGE SUMMARY:</p> <table border="0"> <thead> <tr> <th></th> <th align="center"><u>FY2001</u></th> <th align="center"><u>FY2002</u></th> <th align="center"><u>FY2003</u></th> </tr> </thead> <tbody> <tr> <td>(U) FY 2002 President's Budget:</td> <td></td> <td align="right">767.259</td> <td></td> </tr> <tr> <td>(U) Adjustments from the FY 2002 President's Budget:</td> <td></td> <td align="right">-4.302</td> <td></td> </tr> <tr> <td>(U) FY 2003 President's Budget:</td> <td></td> <td align="right">762.957</td> <td align="right">1,727.500</td> </tr> </tbody> </table> <p>CHANGE SUMMARY EXPLANATION:</p> <p>(U) Funding: The FY 2002 net decrease of \$4.302 million reflects an undistributed congressional reduction of \$6.802 million offset by a Congressional increase of \$2.500 million for GE F136 engine development.</p> <p>(U) Schedule: Not Applicable.</p> <p>(U) Technical: Not Applicable.</p>				<u>FY2001</u>	<u>FY2002</u>	<u>FY2003</u>	(U) FY 2002 President's Budget:		767.259		(U) Adjustments from the FY 2002 President's Budget:		-4.302		(U) FY 2003 President's Budget:		762.957	1,727.500
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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) PROGRAM						D2261/JOINT STRIKE FIGHTER SDD			
(U) C. OTHER PROGRAM FUNDING SUMMARY: (Dollars in Millions) This is a joint program with no executive service. Program Element 0604800F continues development efforts budgeted in 0603800F prior to FY 2002. The United Kingdom is a partner in SDD. Anticipated other international funding is TBD.										
RDT&E	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Cost	
0604800F	0	761.893	1,743.668	1,941.951	2,485.774	1,984.386	1,686.592	Continuing	Continuing	
United Kingdom	0	95.000	161.000	200.000	356.000	384.000	355.000	Continuing	Continuing	
Related RDT&E:										
0603800N	341.164	0	0	0	0	0	0	0	1,950.617	
0603800F	341.167	0	0	0	0	0	0	0	1,907.352	
0603800E	0	0	0	0	0	0	0	0	118.006	
United Kingdom	0.800	0	0	0	0	0	0	0	201.221	
Multi-Lateral	1.700	0	0	0	0	0	0	0	32.100	
Canada	0	0	0	0	0	0	0	0	10.600	
Italy	0	0	0	0	0	0	0	0	10.000	
RELATED PROCUREMENT:										
	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Cost	
USN										
0204146N (Quantity)	0	0	0	0	50.079	762.878 (4)	1,325.330 (8)	Continuing	TBD	
USAF										
0207142F (Quantity)	0	0	0	0	74.014	1,042.863 (6)	1,815.676 (14)	Continuing	TBD	
NOTE: FY 2005 funding is for advance procurement requirements.										

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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 D2261/JOINT STRIKE FIGHTER SDD
<p>(U) 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; and(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>Procurement of the USAF and USMC JSF variants is planned to begin in FY 2006, with advance procurement for Lot 1 in FY 2005. Procurement of the USN JSF variant is planned to begin in FY 2008, with advance procurement for Lot 3 in FY 2007.</p>		

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RDT&E, N / BA-5	0604800N/JOINT STRIKE FIGHTER (JSF) PROGRAM	D2261/JOINT STRIKE FIGHTER SDD
<p>(U) E. SCHEDULE PROFILE:</p> <ul style="list-style-type: none">1 Qtr 2002 Milestone B and Award of SDD Contract2 Qtr 2002 Air System Requirements Review (ASRR)2 & 3 Qtr 2002 Integrated Baseline Reviews (IBRs) at GE, Pratt & Whitney and Lockheed Martin3 Qtr 2003 Preliminary Design Review (PDR)2004-2005 Critical Design Reviews (three variants)1 Qtr FY06 CTOL First Flight3 Qtr FY06 STOVL First Flight2 Qtr FY07 CV First Flight2008 1st Operational Aircraft Delivered2010 USMC Initial Operational Capability (IOC)2011 USAF IOC2012 USN IOC		

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Exhibit R-3 Cost Analysis (page 1)								DATE: February 2002				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDTE&E, N / BA-5			0604800N / JOINT STRIKE FIGHTER (JSF) PROGRAM			D2261 / JOINT STRIKE FIGHTER SDD						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
SDD Air System	C/CPAF	Lockheed Martin Ft. Worth TX				684.500	10/01	2,432.000	10/02	Continuing	Continuing	18,981.928
Award Fees (Non-Add)												
P&W F135 Engine	SS/CPAF	Pratt & Whitney Hartford CT				792.000	10/01	760.000	10/02	Continuing	Continuing	4,827.786
Award Fees (Non-Add)												
Subtotal SDD												
GE F136 Engine	SS/CPAF	General Electric Cincinnati OH				44.900	11/01	150.000	11/02	Continuing	Continuing	411.000*
Award Fees (Non-Add)												
Mission Support	Various	Field Activities				80.077		263.669		Continuing	Continuing	
Advisory & Assitance Services	SS/CPFF	Sverdrup/Anteon				3.150	03/02	4.330	01/03	Continuing	Continuing	
	SS/CPFF	Stanley				3.806	03/02	8.126	01/03	Continuing	Continuing	
	SS/CPFF	Aegis				1.960	03/02	2.730	01/03	Continuing	Continuing	
	SS/CPFF	LSI/Veridian				4.457	03/02	6.163	01/03	Continuing	Continuing	
	Various	Field Sites				5.000	02/02	5.150	10/03	Continuing	Continuing	
Subtotal A&AS												
Subtotal Product Development						1,619.850		3,632.168		Continuing	Continuing	
Remarks:												
*Details of fiscal year award fee profiles for Lockheed Martin, Pratt & Whitney and General Electric are being established or refined.												
*The GE Contract Target Value reflects the negotiated value of the current Phase IIIb.												

