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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE June 2001		
BUDGET ACTIVITY 04 - Demonstration and Validation					PE NUMBER AND TITLE 0603800F Joint Strike Fighter					PROJECT 2025	
COST (\$ in Thousands)		FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
2025	Joint Strike Fighter (JSF)	249,088	341,167	0	0	0	0	0	0	0	1,907,352
Quantity of RDT&E Articles		4	0	0	0	0	0	0	0	0	0
<p>'FY03-FY07 USAF BUDGET NUMBERS DO NOT REFLECT THE DOD STRATEGIC REVIEW RESULTS.'</p> <p>(U) <u>A. Mission Description</u></p> <p>The Joint Strike Fighter (JSF) Program will develop and field an affordable, highly common family of next generation strike fighter aircraft for the USN, USMC, USAF and allies. The current phase emphasizes facilitating the evolution of fully validated and affordable joint operational requirements, and demonstrating cost leveraging technologies and concepts to lower risk prior to entering Engineering and Manufacturing Demonstration (EMD) in Fall 2001. This is a joint program with no executive service. Navy and Air Force each provide approximately equal shares of annual funding for the program. The United Kingdom (UK) is a collaborative partner in this phase of the program and several other countries also participate.</p> <p>PROGRAM TOTAL FUNDING BREAKOUT (FY2000, 2001) REFLECTS NAVY, AIR FORCE, AND INTERNATIONAL FUNDING.</p> <p>(U) <u>FY 2000 (\$ in Thousands)</u></p> <p>(U) \$393,548 Continued Concept Demonstration Phase (CDP) efforts by Boeing, Lockheed Martin and Pratt & Whitney including ground and flight demonstrations, areas of technology maturation, and concept refinement for a tri-service family of aircraft.</p> <p>(U) \$34,711 Continued development of a second engine (GE F-120 engine) for competition in production.</p> <p>(U) \$56,462 Completed technology maturation demonstrations and continued assessments in the areas of airframe, flight systems, manufacturing and producibility, propulsion and mission systems. Continued systems engineering support for the CDP in the areas of system test, air vehicle analysis and integration, advanced cost estimating, survivability, integrated flight and propulsion control, and carrier suitability.</p> <p>(U) \$9,002 Continued technology maturation demonstrations and assessments in the area autonomic logistics and completed prognostics and health management technology maturation demonstrations and assessments.</p> <p>(U) \$11,377 Continued modeling and simulation activities to support strike warfare mission area analysis and requirements analysis efforts including Cost and Operational Performance Trades to facilitate the Services' joint requirements definition. Completed the Operational Requirements Document (ORD). Continued modeling and simulation support testing, training, and refinement of concept of operations for the weapons system (simulation based acquisition).</p> <p>(U) \$16,909 Continued mission support, including program office functions.</p>											
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<div style="margin-bottom: 10px;"> (U) <u>A. Mission Description Continued</u> </div> <div style="margin-bottom: 10px;"> (U) <u>FY 2000 (\$ in Thousands) Continued</u> </div> <div style="margin-bottom: 10px;"> (U) \$522,009 Total </div> <div style="margin-bottom: 10px;"> (U) <u>FY 2001 (\$ in Thousands)</u> </div> <div style="margin-bottom: 10px;"> (U) \$368,713 Complete CDP efforts by Boeing, Lockheed Martin and Pratt & Whitney including ground and flight demonstrations, areas of technology maturation and concept refinement for a tri-service family of aircraft. Request proposals from contractors for their designs and EMD programs. </div> <div style="margin-bottom: 10px;"> (U) \$172,000 Complete transition risk reduction activities under bridge contracts with Boeing, Lockheed Martin and Pratt & Whitney, and fund Pratt & Whitney long-lead requirements to protect EMD schedule. </div> <div style="margin-bottom: 10px;"> (U) \$45,620 Complete the General Electric (GE) JSF F-120 Engine Phase IIIA effort (Common Core Design Trade Studies) in this Program Element. (GE JSF F-120 Engine Development Program will continue in JSF EMD, Program Elements 0604800N and 0604800F.) </div> <div style="margin-bottom: 10px;"> (U) \$50,866 Complete assessments/systems engineering support for the CDP in the areas of airframe, flight systems, manufacturing and producibility, mission systems, propulsion, autonomic logistics, system test, air vehicle analysis and integration, advanced cost estimating, survivability, integrated flight and propulsion control, and carrier suitability. Complete analyses required for Milestone II. Conduct source selection evaluation to support down-select for final design. </div> <div style="margin-bottom: 10px;"> (U) \$26,117 Complete modeling and simulation activities to support Milestone II analyses. Complete modeling and simulation support testing, training, and refinement of concept of operations for the weapons system (simulation based acquisition). </div> <div style="margin-bottom: 10px;"> (U) \$21,515 Complete mission support, including program office functions. </div> <div style="margin-bottom: 10px;"> (U) \$684,831 Total </div> <div style="margin-bottom: 10px;"> (U) <u>FY 2002 (\$ in Thousands)</u> </div> <div style="margin-bottom: 10px;"> (U) \$0 Not Applicable </div> <div style="margin-bottom: 10px;"> (U) \$0 Total </div> <div style="margin-bottom: 10px;"> (U) <u>B. Budget Activity Justification</u> </div> <p style="margin-left: 20px;">This program is funded under Program Definition and Risk Reduction (PDRR), formerly Demonstration and Validation (DEM/VAL), because it integrates hardware for test related to specific ship or aircraft applications.</p>		
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(U) <u>C. Program Change Summary (\$ in Thousands)</u>											
				<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>		<u>Total Cost</u>			
(U)	Previous President's Budget (FY 2001 PBR)			248,109	129,538	0		1,693,458			
(U)	Appropriated Value			249,088	241,349						
(U)	Adjustments to Appropriated Value										
	a. Congressional/General Reductions										
	b. Small Business Innovative Research										
	c. Omnibus or Other Above Threshold Reprogram				100,346						
	d. Below Threshold Reprogram										
	e. Rescissions				-528						
(U)	Adjustments to Budget Years Since FY 2001 PBR							213,894			
(U)	Current Budget Submit/FY 2002 PBR			249,088	341,167	0		1,907,352			
(U)	<u>Significant Program Changes:</u>										
	Funding: The FY2001 \$211.629 Million net increase reflects a Congressional increase (\$111.811M) for a projected schedule delay, a Congressional reprogramming increase (\$100.346 Million) from PE 0604800F, and a Congressional reduction (-\$.528M).										
	Schedule: Experienced delays in contractor flight test schedules, extending completion of this phase until Fall 2001.										
(U) <u>D. Other Program Funding Summary (\$ in Thousands)</u>											
		<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>
		<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U)	RDT&E 0603800N	238,420	341,164	0	0	0	0	0	0	0	1,950,617
(U)	RDT&E 0603800E	0	0	0	0	0	0	0	0	0	118,006
(U)	United Kingdom	26,101	800								201,091
(U)	Multi-Lateral	5,100	1,700								32,100
(U)	Canada	3,300	0								10,600
(U)	Italy	0	0								10,000
(U)	RDT&E 0604800F	0	0	769,511	1,747,738	1,953,957	21,124,460	2,115,394	1,508,255	Continuing	TBD
(U)	RDT&E 0604800N	0	0	767,238						Continuing	TBD
(U)	United Kingdom (EMD)	0	0	95,000						Continuing	TBD
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(U) D. Other Program Funding Summary (\$ in Thousands)										
	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) Related Procurement Funding:										
(U) Procurement 0207142F - JSF Squadrons	0	0	0						Continuing	TBD
(U) Procurement 0204146N - JSF Squadrons	0	0	0						Continuing	TBD
'FY03-FY07 USAF BUDGET NUMBERS DO NOT REFLECT THE DOD STRATEGIC REVIEW RESULTS.' 'FY03-FY07 NAVY AND UK BUDGET NUMBERS ARE PENDING DOD STRATEGIC REVIEW RESULTS.' Note 1: Multi-Lateral countries include Netherlands, Norway and Denmark. Note 2: RDT&E 0604800F/N (EMD) depicted funding excludes anticipated other international funding, not yet formalized.										
(U) E. Acquisition Strategy Program activities in the CDP phase center around three distinct objectives that provide a sound foundation for the start of Engineering and Manufacturing Development (EMD) in Fall 2001: <ol style="list-style-type: none"> (1) facilitating the Services' development of fully validated, affordable operational requirements; (2) lowering risk by investing in and demonstrating key leveraging technologies that lower the cost of development, production and ownership; and (3) demonstrating operational concepts. <p>Early warfighter and technologist interaction was an essential aspect of the requirements definition process, and key to achieving JSF affordability goals. To an unprecedented degree, the JSF program is using 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 the 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 the iterations of 'Services' Joint Interim Requirements Document in 1995, 1997, 1998 and culminated in the approved JSF Operational Requirements Document (ORD) in FY2000.</p> <p>A sizable technology maturation effort was conducted to reduce risk and life cycle cost (LCC) through technology maturation and demonstration. 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 competitively awarded to Boeing and Lockheed Martin for Concept Demonstration Programs. These competing contractors built</p>										
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DATE

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BUDGET ACTIVITY

04 - Demonstration and Validation

PE NUMBER AND TITLE

0603800F Joint Strike Fighter

PROJECT

2025

(U) **E. Acquisition Strategy Continued**

and are flying concept demonstrator aircraft, conduct concept unique ground demonstrations, and refined their respective weapon system concepts. Specifically, Boeing and Lockheed Martin are demonstrating commonality and modularity, Short Take Off/ Vertical Land (STOVL) hover and transition, and low speed handling qualities of their respective weapon system concepts. Pratt and Whitney is providing propulsion hardware and engineering support. The JSF concept demonstration approach has several benefits:

- (1) Maintains the competitive environment prior to EMD and provides for two different STOVL approaches and two different aerodynamic configurations.
- (2) Demonstrates the viability of a multi-service family of variants with high commonality and modularity between CTOL, CV and STOVL variants.
- (3) Provides affordable and low risk technology transition to the JSF EMD phase.

The JSF F-120 Engine Program, with General Electric, continues the development of a second, interchangeable, engine for competition in production.

Downselect to a single prime weapon system contractor for EMD and Milestone II is planned in Fall 2001.

(U) **F. Schedule Profile**

	<u>FY 2000</u>					<u>FY 2001</u>					<u>FY 2002</u>			
1	2	3	4	1	2	3	4	1	2	3	4			
	*													
							X							

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE June 2001			
BUDGET ACTIVITY 04 - Demonstration and Validation				PE NUMBER AND TITLE 0603800F Joint Strike Fighter			PROJECT 2025			
(U) <u>A. Project Cost Breakdown (\$ in Thousands)</u>										
					<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>			
(U) PROJECT COST CATEGORIES:										
(U) WEAPON SYSTEMS CONCEPT DEMONSTRATIONS (including flying demonstrators and supporting propulsion efforts)					397,524	368,713	0			
(U) TRANSITION RISK REDUCTION ACTIVITIES					0	172,000	0			
(U) F-120 ENGINE PROGRAM					34,710	45,620	0			
(U) TECHNOLOGY MATURATION AREAS:										
(U)	Airframe				1,460	1,164	0			
(U)	Flight Systems				5,682	2,269	0			
(U)	Manufacturing and Producibility				563	242	0			
(U)	Propulsion				8,116	3,040	0			
(U)	Mission Systems				9,244	5,356	0			
(U)	Systems Engineering Support				26,117	27,731	0			
(U)	Autonomic Logistics				9,002	8,815	0			
(U)	Modeling, Simulation, Analysis, Threat, COPT and Core Support				10,977	25,717	0			
(U)	Mission Support				6,527	6,691	0			
(U)	SUPPORT (CS)				12,087	17,473	0			
(U) TEST AND EVALUATION: (included above)										
(U) MANAGEMENT: N/A										
(U)	Total				522,009	684,831	0			
(U) <u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u>										
(U) <u>Performing Organizations:</u>										
<u>Contractor or</u>	<u>Contract</u>									
<u>Government</u>	<u>Method/Type</u>	<u>Award or</u>	<u>Performing</u>	<u>Project</u>						
<u>Performing</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Activity</u>	<u>Office</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>	<u>Program</u>
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE	
								June 2001	
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT	
04 - Demonstration and Validation				0603800F Joint Strike Fighter				2025	
(U) <u>Performing Organizations Continued:</u>									
<u>Product Development Organizations</u>									
Strike Warfare Concept									
Studies:									
Miscellaneous	Various		11,467	11,467	11,467	0	0	0	11,467
Technology Maturation									
Concept Exploration Phase:									
Filed Activities	Various		3,432	3,432	3,432	0	0	0	3,432
Strike Warfare Systems									
Design Development:									
Boeing, Seattle WA	C/CPFF		32,770	32,770	32,770	0	0	0	32,770
McAir, St Louis MO	C/CPFF		23,708	23,708	23,708	0	0	0	23,708
Northrop, Pico Rivera CA	C/CPFF		21,358	21,358	21,358	0	0	0	21,358
Lockheed Martin, Fort Worth TX	C/CPFF		28,311	28,311	28,311	0	0	0	28,311
Miscellaneous	Various		1,121	1,121	1,121	0	0	0	1,121
Field Activities	Various		8,322	8,322	8,322	0	0	0	8,322
ASTOVL:									
Lockheed Martin	SS/CPFF		16,416	16,416	16,416	0	0	0	16,416
Boeing	SS/CPFF		11,200	11,200	11,200	0	0	0	11,200
Miscellaneous	Various		15,539	15,539	15,539	0	0	0	15,539
Core Team Support									
Field Activities	Various		2,522	2,522	2,522	0	0	0	2,522
Weapon System Concept									
Demonstrations (Note 1):									
Boeing	C/CPFF	Oct 98/99/00	796,944	796,944	560,983	157,046	79,169	0	797,198
Lockheed Martin	C/CPFF	Oct 98/99/00	944,764	944,764	629,545	153,459	161,850	0	944,854
Pratt & Whitney,East	SS/CPFF	Nov	954,076	954,076	750,071	87,019	127,694	0	964,784
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(U) <u>Performing Organizations Continued:</u>											
<u>Product Development Organizations</u>											
Hartford CT		98/99/00									
Transition Risk Reduction											
Activities:											
Boeing		SS/FFP	Apr 01					43,333	43,333		
Lockheed Martin		SS/FFP	Apr 01					43,333	43,333		
Pratt & Whitney,East		SS/CPFF	Apr 01					85,334	85,334		
Hartford CT											
F-120 Engine Program:											
General Electric,		SS/CPFF		7,000	7,000	7,000	0	0	0	0	7,000
Cincinnati OH											
General Electric,		SS/CPFF	Nov 98/Oct	183,728	183,728	103,397	34,710	45,620	0	0	183,727
Cincinnati OH											
TECHNOLOGY											
MATURATION AREAS:											
AIRFRAME:											
McAir		SS/CPFF		19,240	19,240	19,240	0	0	0	0	19,240
Miscellaneous		Various	Various	2,168	2,168	2,079	56	23	0	0	2,158
Field Activities		Various	Nov	8,252	8,252	5,373	1,404	1,141	0	0	7,918
98/99/00											
FLIGHT SYSTEMS:											
Lockheed Martin		C/CPFF	Nov 98/99	52,201	52,201	51,322	879	0	0	0	52,201
McAir		C/CPFF	Nov 98/99	65,944	65,944	64,821	1,123	0	0	0	65,944
Miscellaneous		Various	Various	9,860	9,860	9,740	401	178	0	0	10,319
Field Activities		Variuos	Nov	24,628	24,628	17,703	3,279	2,091	0	0	23,073
98/99/00											
MANUFACTURING AND											
PRODUCIBILITY:											
Hughes, Los Angeles		C/CPFF		5,065	5,065	5,065	0	0	0	0	5,065
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(U) <u>Performing Organizations Continued:</u>										
<u>Product Development Organizations</u>										
CA										
Lockheed Martin	C/CPFF	Nov 98/99	9,600	9,600	9,600		0	0	0	9,600
General Res.	C/CPFF		1,945	1,945	1,945	0	0	0	0	1,945
Corp.,Huntsville AL										
Scaled Composites	C/CPFF		2,000	2,000	2,000	0	0	0	0	2,000
Lockheed Martin	C/CPFF		700	700	700	0	0	0	0	700
Miscellaneous	Various	Various	1,679	1,679	1,544	75	0	0	0	1,619
Field Activities	Various	Nov 98/99/00	5,619	5,619	4,660	488	242	0	0	5,390
PROPULSION:										
Pratt & Whitney	C/CPFF		5,448	5,448	5,448	0	0	0	0	5,448
General Electric	SS/CPFF		5,681	5,681	5,681	0	0	0	0	5,681
Pratt & Whitney	SS/CPFF		30,000	30,000	30,000	0	0	0	0	30,000
General Electric	SS/CPFF		3,000	3,000	3,000	0	0	0	0	3,000
Pratt & Whitney	SS/CPFF	Jan 99	26,777	26,777	26,777	0	0	0	0	26,777
Pratt & Whitney	SS/CPFF		3,640	3,640	3,640	0	0	0	0	3,640
Pratt & Whitney	SS/TBD	Dec 98	8,200	8,200	8,200	0	0	0	0	8,200
NASA Contracts	Various	Jul 99	2,800	2,800	2,800	0	0	0	0	2,800
Miscellaneous	Various	Various	14,845	14,845	14,699	96	50	0	0	14,845
Field Activities	Various	Nov 98/99/00	51,011	51,011	39,873	8,020	2,990	0	0	50,883
MISSION SYSTEMS:										
TI, Plano TX	C/CPFF		2,464	2,464	2,464	0	0	0	0	2,464
Lockheed	SS/CPFF		6,856	6,856	6,856	0	0	0	0	6,856
McAir	SS/CPFF		6,524	6,524	6,524	0	0	0	0	6,524
Raytheon	C/CPFF	Nov 98/99	45,173	45,173	45,173	0	0	0	0	45,173
Northrop Grumman	C/CPFF	Nov 98/99	41,903	41,903	41,903	0	0	0	0	41,903
Boeing	C/CPFF		1,575	1,575	1,575	0	0	0	0	1,575
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(U) <u>Performing Organizations Continued:</u>										
<u>Product Development Organizations</u>										
Lockheed Martin	C/CPFF		1,517	1,517	1,517	0	0	0	0	1,517
Hughes	C/CPFF		3,681	3,681	3,681	0	0	0	0	3,681
Classified	Classified	Nov 98	3,000	3,000	3,000	0	0	0	0	3,000
Miscellaneous	Various	Various	24,988	24,988	21,564	3,292	221	0	0	25,077
Field Activities	Various	Nov 98/99/00	42,432	42,432	27,635	5,952	5,135	0	0	38,722
SYSTEMS										
ENGINEERING SUPPORT:										
Miscellaneous	Various	Various	34,112	34,112	20,566	4,076	5,626	0	0	30,268
Field Activities	Various	Nov 98/99/00	133,968	133,968	92,154	22,041	22,105	0	0	136,300
AUTONOMIC LOGISTICS										
(formerly Prognostics and Health Management / Supportability and Training:										
Pratt & Whitney	C/CPFF		10,100	10,100	10,100	0	0	0	0	10,100
General Electric	C/CPFF	Jan 99	1,500	1,500	1,500	0	0	0	0	1,500
Project 3 (Classified)	C/CPFF		8,576	8,576	8,576	0	0	0	0	8,576
Project 4 (Classified)	C/CPFF		5,549	5,549	5,549	0	0	0	0	5,549
Miscellaneous	Various	Various	11,563	11,563	4,552	5,032	2,571	0	0	12,155
Field Activity	Various	Nov 98/99/00	19,552	19,552	11,707	3,970	6,244	0	0	21,921
MODELING, SIMULATION, ANALYSIS, THREAT, COPT, AND CORE SUPPORT:										
Miscellaneous	Various	Various	51,746	51,746	42,752	4,985	12,526	0	0	60,263
Field Activities	Various	Nov	38,317	38,317	26,882	5,992	13,191	0	0	46,065
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(U) <u>Performing Organizations Continued:</u>											
<u>Product Development Organizations</u>											
					98/99/00						
MISSION SUPPORT:											
Institute for Defense		Grant		2,500	2,500	2,500	0	0	0	0	2,500
Analysis											
Field Activities		Various	Various	35,182	35,182	26,342	6,527	6,691	0	0	39,560
Note 1:											
- Includes government managed equipment.											
- Consistent with Boeing and Lockheed Martin replans, annual funding increments reflect budgeted basic CDP efforts as well as areas of technology maturation.											
- Pratt and Whitney Total Value of Contract reflects award fees totaling \$35.1M, FY1998 and prior, and basic CDP efforts.											
<u>Support and Management Organizations</u>											
ANSER, Arlington VA		SS/CPFF	Jan99/00/01	33,701	33,701	24,261	4,720	1,144	0	0	30,125
ANTEON/SVERDRUP, Arlington VA		C/CPFF	Apr 01					2,618			2,618
Stanley Assoc. Arlington VA		SS/CPFF	Apr 01					4,945			4,945
AEGIS Arlington VA		C/CPFF	Apr 01					1,058			1,058
Miscellaneous		Various	Various	34,123	34,123	20,521	7,367	7,708	0	0	35,596
<u>Test and Evaluation Organizations</u>											
Included Above											
					<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>	
					<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>	<u>Program</u>	
<u>Subtotals</u>											
Subtotal Product Development					2,978,144	509,922	667,358	0	0	4,155,424	
Subtotal Support and Management					44,782	12,087	17,473	0	0	74,342	
Subtotal Test and Evaluation											
Total Project					3,022,926	522,009	684,831	0	0	4,229,766	