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EXHIBIT R-2, RDT&E Budget Item Justification								DATE: June 2001			
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-07						R-1 ITEM NOMENCLATURE 0205667N F-14 Upgrade					
COST (\$ in Millions)	Prior Year Cost	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Total PE Cost	1,823.011	1.354	11.122								1,835.487
E1408 F-14 Upgrade	1,823.011	1.354	*11.122								1,835.487
Quantity of RDT&E Articles	Not Applicable										
<p>* The FY2001 budget reflects a \$9,000K Congressional add for Synthetic Aperture Radar Reconnaissance system demonstration executed under E2984 which has been decreased by \$.301 million for Congressional undistributed reductions, and a \$1.000 million Congressional add for Radar Warning Receiver Antenna Replacement and system enhancement executed under E2985 which has been decreased by \$.033 for Congressional undistributed reductions.</p> <p>A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This program element provides for the development of improvements to the Navy F-14 squadrons in order to counter the projected threat through the year 2000 and beyond. The F-14D has increased capability in three major areas: new engine, new digital avionics, and upgraded radar. These changes yield significant improvements in capability and performance, as well as reliability and maintainability, and will facilitate the total integration and exploitation of related programs i.e., Joint Tactical Information Distribution System (JTIDS), Infrared Search and Track System (IRST), and inclusion of Airborne Self-Protection Jammer (ASPJ) in the electronic warfare (EW) suite for the F-14D operational evaluation. A Pre-deployment Update (PDU) program (primarily software) includes air-to-ground ordnance delivery capability, full Link 16 capability, and radar/Electronic Counter-Countermeasures(ECCM) improvements for the F-14D. The PDU program was created because of concurrent development of the F-14D and the above listed common avionics and weapons. It implements the capabilities inherent in systems incorporated during the full scale development (FSD) program and is a planned integral part of the evolution of the F-14D aircraft. F-14 weapons integration supports integration of EW improvements and correction of OPEVAL deficiencies. Funding is also provided for various software upgrades such as Global Positioning System, and accommodates the realignment of Aviation Depot Level Repairables (AVDLR) from Major Range and Test Facility Bases to direct project funding. FY2001 includes a Congressional plus up of \$9 million for Synthetic Aperture Radar (SAR) Pod. These funds will be used to demonstrate a podded SAR system on the F-14. Additionally, a \$1 million Congressional plus up is included for Radar Warning Receiver (RWR) Antenna Replacement and System Enhancement. These funds will be used to fund the research, development and test costs associated with procuring new RWR antennas system upgrade.</p> <p>(U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under OPERATIONAL SYSTEMS DEVELOPMENT because it encompasses engineering and manufacturing development for upgrade of existing, operational systems.</p>											

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Exhibit R-2, RDTEN Budget Item Justification
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EXHIBIT R-2a, RDT&E Project Justification							DATE: June 2001				
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-07	PROGRAM ELEMENT NUMBER AND NAME 0205667N F-14 Upgrade					PROJECT NUMBER AND NAME E1408 F-14 Upgrade					
COST (\$ in Millions)	Prior Year Cost	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	1,823.011	1.354	*11.122								1,835.487
RDT&E Articles Qty	Not applicable										

* The FY2001 budget reflects a \$9,000K Congressional add for Synthetic Aperture Radar Reconnaissance system demonstration executed under E2984 which has been decreased by \$.301 million for Congressional undistributed reductions, and a \$1.000 million Congressional add for Radar Warning Receiver Antenna Replacement and system enhancement executed under E2985 which has been decreased by \$.033 for Congressional undistributed reductions.

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This program element provides for the development of improvements to the Navy F-14 squadrons in order to counter the projected threat through the year 2000 and beyond. The F-14D has increased capability in three major areas: new engine, new digital avionics, and upgraded radar. These changes yield significant improvements in capability and performance, as well as reliability and maintainability, and will facilitate the total integration and exploitation of related programs i.e., Joint Tactical Information Distribution System (JTIDS), Infrared Search and Track System (IRST), and inclusion of Airborne Self-Protection Jammer (ASPJ) in the electronic warfare (EW) suite for the F-14D operational evaluation. A Pre-deployment Update (PDU) program (primarily software) includes air-to-ground ordnance delivery capability, full Link 16 capability, and radar/Electronic Counter-Countermeasures(ECCM) improvements for the F-14D. The PDU program was created because of concurrent development of the F-14D and the above listed common avionics and weapons. It implements the capabilities inherent in systems incorporated during the full scale development (FSD) program and is a planned integral part of the evolution of the F-14D aircraft. F-14 weapons integration supports integration of EW improvements and correction of OPEVAL deficiencies. Funding is also provided for various software upgrades such as Global Positioning System, and accommodates the realignment of Aviation Depot Level Repairables (AVDLR) from Major Range and Test Facility Bases to direct project funding. FY2001 includes a Congressional plus up of \$9 million for Synthetic Aperture Radar (SAR) Pod. These funds will be used to demonstrate a podded SAR system on the F-14. Additionally, a \$1 million Congressional plus up is included for Radar Warning Receiver (RWR) Antenna Replacement and System Enhancement. These funds will be used to fund the research, development and test costs associated with procuring new RWR antennas system upgrade.

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. FY 2000 ACCOMPLISHMENTS:

- (U) (\$1.354) Completed development and test of third PDU tape. Conduct operational evaluation.

2. FY 2001 PLANS:

- (U) (\$1.213) Procure Aviation Depot Level Repairables for testing of aircraft.
- (U) (\$8.699) Demonstrate Synthetic Aperture Radar Pod on F-14.
- (U) (\$0.967) Procure new Radar Warning Receiver Antenna Replacement and System Enhancement.
- (U) (\$0.243) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 68.

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Exhibit R-2a, RDTEN Project Justification
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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-07	PROGRAM ELEMENT NUMBER AND NAME 0205667N F-14 Upgrade	PROJECT NUMBER AND NAME E1408 F-14 Upgrade																																												
<p>(U) B. PROGRAM CHANGE SUMMARY:</p> <table style="margin-left: auto; margin-right: auto; border: none;"> <tr> <td></td> <td style="text-align: center;">FY2000</td> <td style="text-align: center;">FY2001</td> <td style="text-align: center;">FY2002</td> <td></td> </tr> <tr> <td>(U) FY 2001 President's Budget:</td> <td style="text-align: center;">1.383</td> <td style="text-align: center;">1.228</td> <td style="text-align: center;">0.000</td> <td></td> </tr> <tr> <td>(U) Adjustments from the President's Budget:</td> <td style="text-align: center;">-0.029</td> <td style="text-align: center;">9.894</td> <td style="text-align: center;">0.000</td> <td></td> </tr> <tr> <td>(U) FY 2002 President's Budget Submit:</td> <td style="text-align: center;">1.354</td> <td style="text-align: center;">11.122</td> <td style="text-align: center;">0.000</td> <td></td> </tr> </table> <p style="margin-top: 20px;">CHANGE SUMMARY EXPLANATION:</p> <p>(U) Funding: The FY 2000 net decrease of \$.029 million reflects a \$.005 million decrease for a Congressional Recission, a \$.035 million decrease for reprioritization of requirements within the Navy, and an increase of \$.011 million to procure AVDLR for testing of aircraft. The FY2001 net increase of \$9.894 million reflects a \$.079 million decrease for a economic assumption, a \$.007 million decrease for reprioritization of requirements within the Navy, a decrease of \$.024 million for a Congressional Recission, a \$.004 million increase for reinvestment of NMCI savings, and a \$10.000 million increase to demonstrate a SAR podded reconnaissance system.</p> <p>(U) Schedule: Due to problems with JTIDS integration, deployment of tape D03B-2 slipped from 1Q/00-2Q/00 to 2Q/00-4Q/00.</p> <p>(U) Technical: Not applicable.</p> <p>(U) C. OTHER PROGRAM FUNDING SUMMARY:</p> <table style="margin-left: auto; margin-right: auto; border: none;"> <thead> <tr> <th style="text-align: left;"><u>Line Item No. & Name</u></th> <th style="text-align: center;">FY 2000</th> <th style="text-align: center;">FY 2001</th> <th style="text-align: center;">FY 2002</th> <th style="text-align: center;">FY 2003</th> <th style="text-align: center;">FY 2004</th> <th style="text-align: center;">FY 2005</th> <th style="text-align: center;">FY 2006</th> <th style="text-align: center;">FY 2007</th> <th style="text-align: center;">To Complete</th> <th style="text-align: center;">Total Cost</th> </tr> </thead> <tbody> <tr> <td>APN-5</td> <td style="text-align: center;">79.7</td> <td style="text-align: center;">31.3</td> <td style="text-align: center;">4.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>(U) Related RDT&E: (U) PE 0205604N (Tactical Data Links) (U) PE 0604270N (EW Development)</p>						FY2000	FY2001	FY2002		(U) FY 2001 President's Budget:	1.383	1.228	0.000		(U) Adjustments from the President's Budget:	-0.029	9.894	0.000		(U) FY 2002 President's Budget Submit:	1.354	11.122	0.000		<u>Line Item No. & Name</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	Total Cost	APN-5	79.7	31.3	4.5							
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			June 2001
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N / BA-07	0205667N F-14 Upgrade	E1408 F-14 Upgrade	
(U) D. ACQUISITION STRATEGY: Not applicable.			
(U) E. SCHEDULE PROFILE:			
	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>
			<u>TO COMPLETE</u>
(U) Program Milestones			
(U) Engineering Milestones			
(U) T&E Milestones	2Q/00-4Q/00 OT-III (Tape D03B-2)		
(U) Contract Milestones			

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Exhibit R-3 Cost Analysis (page 2)							DATE: June 2001					
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-07			0205667 F-14 Upgrade			E1408 F-14 Upgrade						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total P Y s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date			Cost to Complete	Total Cost	Target Value of Contract
PDU Systems Engineering/Test and Evaluation	WX	NAWC Pt Mugu CA	1.337	1.213	12/00						2.550	
SAR (Congressional plus up)	SS/FFP	TBD		3.286	05/01						3.286	3.286
SAR (Congressional plus up)	WX	NAWC (AD)		0.536	05/01						0.536	
Subtotal T&E			1.337	5.035		0.000				0.000	6.372	
Remarks:												
SBIR Assessment				0.243								
Subtotal Management			0.000	0.243		0.000				0.000	0.243	
Remarks:												
Total Cost			1,824.365	11.122		0.000				0.000	1,835.487	
Remarks:												

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