

UNCLASSIFIED

EXHIBIT R-2, FY 2001 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET

DATE: February 2000

BUDGET ACTIVITY: 07

PROGRAM ELEMENT: 0205667N

PROGRAM ELEMENT TITLE: F-14 Upgrade

(U) COST: (Dollars in Thousands)

<u>Project Number &amp; Title</u>	<u>FY 1999 Budget</u>	<u>FY 2000 Estimate</u>	<u>FY 2001 Estimate</u>	<u>FY 2002 Estimate</u>	<u>FY 2003 Estimate</u>	<u>FY 2004 Estimate</u>	<u>FY 2005 Estimate</u>	<u>To Complete</u>	<u>Total Program</u>
E1408 F-14 Upgrade	12,249	1,383	1,228	1,503	1,568	1,574	1,610	0	1,837,135
<b>TOTAL</b>	<b>12,249</b>	<b>1,383</b>	<b>1,228</b>	<b>1,503</b>	<b>1,568</b>	<b>1,574</b>	<b>1,610</b>	<b>0</b>	<b>1,837,135</b>

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.

(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.

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EXHIBIT R-2a, FY 2001 RDT&E,N BUDGET PROJECT JUSTIFICATION SHEET

DATE: February 2000

BUDGET ACTIVITY: 07

PROGRAM ELEMENT: 0205667N  
PROGRAM ELEMENT TITLE: F-14 Upgrade

PROJECT NUMBER: E1408  
PROJECT TITLE: F-14 Upgrade

(U) COST: (Dollars in Thousands)

<u>Project Number &amp; Title</u>	<u>FY 1999 Budget</u>	<u>FY 2000 Estimate</u>	<u>FY 2001 Estimate</u>	<u>FY 2002 Estimate</u>	<u>FY 2003 Estimate</u>	<u>FY 2004 Estimate</u>	<u>FY 2005 Estimate</u>	<u>To Complete</u>	<u>Total Program</u>
E1408 F-14 Upgrade	12,249	1,383	1,228	1,503	1,568	1,574	1,610	0	1,837,135
<b>TOTAL</b>	<b>12,249</b>	<b>1,383</b>	<b>1,228</b>	<b>1,503</b>	<b>1,568</b>	<b>1,574</b>	<b>1,610</b>	<b>0</b>	<b>1,837,135</b>

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(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. (U) FY 1999 PLAN:
  - (U) (\$12,249) Continued development and test of third PDU tape.

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EXHIBIT R-2a, FY 2001 RDT&E,N BUDGET PROJECT JUSTIFICATION SHEET

DATE: February 2000

BUDGET ACTIVITY: 07

PROGRAM ELEMENT: 0205667N  
PROGRAM ELEMENT TITLE: F-14 Upgrade

PROJECT NUMBER: E1408  
PROJECT TITLE: F-14 Upgrade

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

- 2. (U) FY 2000 PLAN:
  - (U) (\$1,383) Complete development and test of third PDU tape. Conduct operational evaluation.
- 3. (U) FY 2001 PLAN:
  - (U) (\$1,228) Procure Aviation Depot Level Repairables (AVDLR) for testing of aircraft.

B. (U) PROGRAM CHANGE SUMMARY:

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
(U) FY 2000 President's Budget:	12,834	1,390	1,472
(U) Appropriated Value:	12,947	1,390	
(U) Adjustments from FY 2000 President's Budget:	-585	-7	-244
(U) FY 2001 President's Budget Submit:	12,249	1,383	1,228

(U) CHANGE SUMMARY EXPLANATION:

- (U) Funding:
  - (U) The FY 1999 decrease is due to minor pricing and inflation adjustments.
  - (U) The FY 2000 decrease is due to the Across-the-Board Congressional rescission.
  - (U) The FY 2001 decrease is due to minor pricing and inflation adjustments.
- (U) Schedule: (U) A funding reduction in FY99 resulted in a slip in Tape D03B to FY 2000 .
- (U) Technical: N/A

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EXHIBIT R-2a, FY 2001 RDT&E,N BUDGET PROJECT JUSTIFICATION SHEET

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BUDGET ACTIVITY: 07

PROGRAM ELEMENT: 0205667N  
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PROJECT NUMBER: E1408  
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C. (U) OTHER PROGRAM FUNDING SUMMARY: (Dollars in millions)

APPN	FY 1999 BUDGET	FY 2000 ESTIMATE	FY 2001 ESTIMATE	FY 2002 ESTIMATE	FY 2003 ESTIMATE	FY 2004 ESTIMATE	FY 2005 ESTIMATE
APN-5	209.4	82.8	30.5	4.7	3.6	0	0

(U) RELATED RDT&E:

- (U) PE 0205604N (Tactical Data Links)
- (U) PE 0604270N (EW Development)

D. (U) ACQUISITION STRATEGY: NOT APPLICABLE.

E. (U) SCHEDULE PROFILE:

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Program Milestones			
Engineering Milestones			
T&E Milestones		1Q/00 - 2Q/00	OT-III(Tape 3B)
Contract Milestones			

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**EXHIBIT R-3, FY 2001 RDT&E,N COST ANALYSIS**

DATE: February 2000

**BUDGET ACTIVITY: 07**

**PROGRAM ELEMENT:**

**0205667N**

**PROJECT NUMBER:**

**E1408**

**PROJECT TITLE:**

**F14 UPGRD**

<u>Cost Categories:</u>	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior Yrs Cost</u>	<u>FY 1999 Cost</u>	<u>FY 1999 Award Date</u>	<u>FY 2000 Cost</u>	<u>FY 2000 Award Date</u>	<u>FY 2001 Cost</u>	<u>FY 2001 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
AMRAAM Int.	SS/CPFF	Northrop Grumman, Bethpage NY	9,924	0		0		0		0	9,924	9,924
BLK I/JDAM	SS/CPFF	Northrop Grumman Bethpage, NY	6,506	0		0		0		0	6,506	6,506
FSD Cont	SS/FFP	Northrop Grumman Bethpage, NY	994,378	0		0		0		0	994,378	994,378
PDU	WX	NAWC Pt. Mugu CA	208,241	11,743	12/2/98	0		0		0	219,984	
Miscellaneous - Contracts			3,154	0		0		0		0	3,154	3,154
Miscellaneous - In House			26,300	350	11/5/98	0		0		0	26,650	
Repair of Repairables	WX	Various	11,078	0		0		0		0	11,078	
<b>Subtotal Product Development</b>			<b>1,259,581</b>	<b>12,093</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>1,271,674</b>	

Remarks

**Subtotal Support**

**0      0                      0                      0                      0                      0**

Remarks

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EXHIBIT R-3, FY 2001 RDT&E,N COST ANALYSIS

DATE: February 2000

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0205667N

PROJECT NUMBER: E1408

PROJECT TITLE: F14 UPRD

Cost Categories:	Contract Method & Type	Performing Activity & Location	Total Prior Yrs Cost	FY 1999	FY 1999	FY 2000	FY 2000	FY 2001	FY 2001	Cost to Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date			
PDU Systems Engineering/Test and Evaluation	WX	NAWC Pt. Mugu CA	0	0		1,383	2/00	1,228	12/01	6,255	8,866	
COMOPTEVFOR PD	PD	COMOPTEVFOR	3,760	0		0		0		0	3,760	
<b>Subtotal Test &amp; Evaluation</b>			<b>3,760</b>	<b>0</b>		<b>1,383</b>		<b>1,228</b>		<b>6,255</b>	<b>12,626</b>	
Remarks												
Contractor Engineering Support	WX	Various	1,325	156		0		0		0	1,481	
<b>Subtotal Management</b>			<b>1,325</b>	<b>156</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>1,481</b>	
Other FY95 & Prior Costs			551,354								551,354	
SBIR Assessment												
<b>Total Cost</b>			<b>1,816,020</b>	<b>12,249</b>		<b>1,383</b>		<b>1,228</b>		<b>6,255</b>	<b>1,837,135</b>	

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