

UNCLASSIFIED
 FY 2001 RDT&E,N BUDGET ITEM JUSTIFICATION

DATE: February 2000

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0205604N
 PROJECT TITLE: Tactical Data Links

(U) COST: (Dollars in Thousands)

PROJECT NUMBER & TITLE	FY 1999 ESTIMATE	FY 2000 ESTIMATE	FY 2001 ESTIMATE	FY 2002 ESTIMATE	FY 2003 ESTIMATE	FY 2004 ESTIMATE	FY 2005 ESTIMATE	TO COMPLETE	TOTAL PROGRAM
X1743 LINK-16 Improvements	3,506	4,185	4,176	11,113	11,484	8,595	8,782	CONT	CONT
X2126 ATDLS Integration	45,421	42,225	22,069	20,529	21,154	21,645	18,886	CONT	CONT
TOTAL	48,927	46,410	26,245	31,642	32,638	30,240	27,668	CONT	CONT

(U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This program element (PE) develops and improves the Navy's tactical data link systems. It includes the LINK-16 Improvements and Advanced Tactical Data Link Systems (ATDLS) Integration programs.

(U) Link-16 Improvements extends LINK-16 technological improvements to existing and developing U.S. Navy data link systems, including LINK-11 and LINK-22. Development of the NATO Improved LINK-Eleven (NILE) project is a major element of this program. The U.S. is the lead technical nation for LINK-22 development for the NILE office. LINK-16 improvements will allow more effective employment of fleet units by increasing the timeliness, accuracy, and content of tactical data transfer.

(U) ATDLS Integration includes current efforts to develop translation tools between Tactical Digital Information Links (TADILS) and integration of the Multifunctional Information Distribution System – Low Volume Terminal (MIDS-LVT) into U.S. Navy platforms. MIDS-LVT is a multinational cooperative development program that will provide selected U.S. Navy ships and space constrained tactical fighter aircraft with LINK-16 capability through the development of a terminal that is functionally identical to the Joint Tactical Information Distribution System (JTIDS) Class II terminal, but, through the use of Very High Speed Integrated Circuit (VHSIC) and Microwave Monolithic Integrated Circuits (MMIC) technology, is one-half the weight and one-third the size of the JTIDS terminal.

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PROJECT TITLE: Tactical Data Links

(U) Common Data Link Management System (CDLMS) provides translation between TADILs and will isolate all tactical data link equipment, message standards and protocols from tactical information processors. This will provide a flexible capability for rapidly exchanging tactical information using a single database for translating various link formats while remaining completely independent of communications equipment and tactical data computing systems. Link 11 improvements include the Common Systems Data Terminal Set (CSDTS) that will improve existing computer-to-computer, digital radio communications in the HF and UHF radio frequency bands among Combat Direction System (CDS) equipped ships, submarines, aircraft and shore sites.

(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-2, RDT&E Budget Item Justification

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 FY 2001 RDT&E,N PROJECT JUSTIFICATION

DATE: February 2000

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0205604N
 PROGRAM ELEMENT TITLE: Tactical Data Links

PROJECT NUMBER: X1743
 PROJECT TITLE: Link 16 Improvements

(U) COST (Dollars in Thousands)

PROJECT NUMBER & TITLE	FY 1999 ESTIMATE	FY 2000 ESTIMATE	FY 2001 ESTIMATE	FY 2002 ESTIMATE	FY 2003 ESTIMATE	FY 2004 ESTIMATE	FY 2005 ESTIMATE	TO COMPLETE	TOTAL PROGRAM
X1743 LINK-16 Improvements	3,506	4,185	4,176	11,113	11,484	8,595	8,782	CONT	CONT

A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: Link-16 Improvements extends LINK-16 technological improvements to existing and developing U.S. Navy data link systems, including LINK-11 and LINK-22. Near term LINK-11 improvements include: Mobile Universal Link Translator System (MULTS) upgrade, Common Shipboard Data Terminal Set (CSDTS), LINK-11 Baseline Freeze message standard work, and the NATO Improved LINK-11 (NILE) project. LINK-22 will pass TADIL-J data elements beyond the line of sight (HF) using a Time Division Multiple Access (TDMA) protocol and the improved LINK-11 waveform. These projects will allow more effective employment of fleet units by increasing timeliness, accuracy, and content of tactical data transfer.

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BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0205604N
PROGRAM ELEMENT TITLE: Tactical Data Links

PROJECT NUMBER: X1743
PROJECT TITLE: Link 16 Improvements

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. (U) FY 1999 Accomplishments:

- (U) (\$1,136) Continued design and development of Subphase 2 for the NILE Reference System (NRS).
- (U) (\$1,435) Continued Link-22 system development. Link-22 shall receive a NILE SNC Beta software version and shall conduct preliminary performance testing in a laboratory environment. Crypto design and message standards will be evaluated.
- (U) (\$935) Began combined CDLMS/Link 22 program enhancements.

2. (U) FY 2000 PLAN:

- (U) (\$271) Complete design and development of Subphase 2 for the NILE Reference System (NRS).
- (U) (\$400) Commence validation of Link 22 design to ensure interoperability with NILE Reference System (NRS) under NILE In-Service Support Phase MOU.
- (U) (\$1,154) Continue Link-22 system development. Link-22 program shall perform final SNC beta software verification and performance tests. Message standards and Signal Processing Controller functions will be defined for U.S. implementation.
- (U) (\$2,360) Continue combined CDLMS/Link-22 program enhancements. CDLMS/Link-22 specifications/designs will be baselined for final system integration.

3. (U) FY 2001 PLAN

- (U) (\$400) Continue validation of Link 22 design to ensure interoperability with NILE Reference System (NRS) under NILE In-Service Support Phase MOU.
- (U) (\$2,547) Continue Link-22 system development. Link-22 Crypto designs, message standards, and test tools will be assembled and integrated.
- (U) (\$1,229) Continue combined CDLMS/Link-22 program enhancements. System enhancements shall undergo system integration supporting Link-22 Crypto designs, message standards, and test tools.

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Exhibit R-2a RDT&E: Project Justification (Project X1743)

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FY 2001 RDT&E,N PROJECT JUSTIFICATION

DATE: February 2000

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0205604N
PROGRAM ELEMENT TITLE: Tactical Data Links

PROJECT NUMBER: X1743
PROJECT TITLE: Link 16 Improvements

B. (U) PROGRAM CHANGE SUMMARY:

(U) Funding:

FY 1999: Reflects Congressional reduction for Inflation Savings (- \$20K). Transfer for SBIR/STTR (-\$109K), LOCO-GPSI Reprogramming (- \$37K) and Miscellaneous Department Adjustments (- \$749K).

FY 2000: Reflects Congressional Adjustment (- \$22K). \$680K Portion of extramural program is reserved for Small Business Innovation Research assessment in accordance with 15 USC 638

FY 2001: Miscellaneous Department Adjustments (- \$36K).

(U) Schedule: Delay Link 22 IOC from FY02 to FY04 in order to implement extensive C2P upgrades to meet increased Link-22 processing requirements.

(U) Technical: Not applicable.

C. (U) OTHER PROGRAM FUNDING SUMMARY: (Dollars in Thousands)

NUMBER TITLE	FY 1999 <u>ESTIMATE</u>	FY 2000 <u>ESTIMATE</u>	FY 2001 <u>ESTIMATE</u>	FY 2002 <u>ESTIMATE</u>	FY 2003 <u>ESTIMATE</u>	FY 2004 <u>ESTIMATE</u>	FY 2005 <u>ESTIMATE</u>	TO <u>COMPLETE</u>	TOTAL <u>PROGRAM</u>
(U) OPN Line 2614 ATDLS	28,787	19,036	19,153	14,908	16,262	33,463	32,173	CONT	CONT

D. (U) ACQUISITION STRATEGY: NILE Reference System, Link 22 system development and CDLMS/Link 22 program enhancement are utilizing existing cost plus contracts.

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DATE: February 2000

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0205604N
PROGRAM ELEMENT TITLE: Tactical Data Links

PROJECT NUMBER: X1743
PROJECT TITLE: Link 16 Improvements

E. (U) SCHEDULE PROFILE:

	<u>FY 1999</u>	<u>FY 2000</u>	FY 2001	<u>TO COMPLETE</u>
Program Milestones				
Engineering Milestones				
T&E Milestones		NILE S/W Test 2Q/00		CDLMS/Link 22 S/W test 4Q/02 Link-22 DT 4Q/03 Link-22 OT 1Q/04
Contract Milestones				

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 FY 2001 RDT&E,N PROJECT COST ANALYSIS

DATE: February 2000

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0205604N
 PROGRAM ELEMENT TITLE: Tactical Data Links

PROJECT NUMBER: X1743
 PROJECT TITLE: Link 16 Improvements

Exhibit R-3 Cost Analysis (page 1)												
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY99 Cost	FY99 Award Date	FY00 Cost	FY00 Award Date	FY 01 Cost	FY01 Award Date	Cost To Complete	Total Cost	Target Value of Contract
NATO Improved Link Eleven	CPFF	Logicon	1,022	1,136	Various	671	Various	400	Various	800	4,029	4,029
LINK-22	WX	SPAWARSYSCTR San Diego, CA	1,304	1,018	Various	810	Various	2,155	Various	Cont.	Cont.	Cont.
LINK 22	Various	Various		356	Various	300	Various	300	Various	Cont.	Cont.	Cont.
C2P Improvements	Various	Various	1,576	861	Various	2,268	Various	1,184	Various	Cont.	Cont.	Cont.
Subtotal Product Development			3,902	3,371		4,049		4,039		Cont.	Cont.	Cont.
Remarks:												
Subtotal Support												

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 FY 2001 RDT&E,N PROJECT COST ANALYSIS

DATE: February 2000

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0205604N
 PROGRAM ELEMENT TITLE: Tactical Data Links

PROJECT NUMBER: X1743
 PROJECT TITLE: Link 16 Improvements

Exhibit R-3 Cost Analysis (page 2)												
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY99 Cost	FY99 Award Date	FY00 Cost	FY00 Award Date	FY 01 Cost	FY01 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Test and Evaluation	Various	Various	272								272	272
Subtotal T&E			272								272	272
Remarks												
Engineering Support and Travel	Various	Various	270	135	Various	136	Various	137	Various	Cont.	Cont.	
Subtotal Management			270	135		136		137				
Remarks												
Total Cost			4,444	3,506		4,185		4,176		Cont.	Cont.	Cont.
Remarks												

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 FY 2001 RDT&E,N PROJECT JUSTIFICATION

DATE: February 2000

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0205604N
 PROGRAM ELEMENT TITLE: Tactical Data Links

PROJECT NUMBER: X2126
 PROJECT TITLE: ATDLS Integration

(U) COST (Dollars in Thousands)

PROJECT NUMBER & TITLE	FY 1999 ESTIMATE	FY 2000 ESTIMATE	FY 2001 ESTIMATE	FY 2002 ESTIMATE	FY 2003 ESTIMATE	FY 2004 ESTIMATE	FY 2005 ESTIMATE	TO COMPLETE	TOTAL PROGRAM
X2126 ATDLS Integration	45,421	42,225	22,069	20,529	21,154	21,645	18,886	CONT	CONT

A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The ATDLS Integration program will integrate the Multifunctional Information Distribution System – Low Volume Terminal (MIDS-LVT) LINK-16 terminal into U.S. Navy platforms. This multinational (U.S., France, Germany, Italy, and Spain) cooperative development program was established to design, develop, and deliver low-volume lightweight tactical information system terminals for U.S. and foreign fighter aircraft, helicopters, ships and ground sites. The terminals are designed as a Pre-Planned Product Improvement (P³I) of the Joint Tactical Information Distribution System (JTIDS) Time Division Multiple Access (TDMA) Class II terminal. The goal of the MIDS-LVT program is to produce a terminal that is smaller, lighter, fully compatible with, and as capable as the JTIDS TDMA Class 2 terminals, but suitable for use in platforms that cannot accommodate the bulkier, heavier JTIDS TDMA Class II equipment. This project includes the costs to integrate and test MIDS on the Navy’s F/A-18 and selected ship platforms. ATDLS Integration of the MIDS-LVT will also provide selected U.S. Navy and U.S. Marine Corps tactical aircraft, U.S. Navy ships, and U.S. Marine Corps ground units with crypto-secure, jam resistant, low-probability-of-exploitation communication of tactical data and voice at a high data rate. It will have additional capabilities of common grid navigation and automatic relay inherent in the equipment that will enable long-range communication and provide jam resistance. The system will be interoperable among all services and NATO/Allied users equipped with MIDS-LVT or JTIDS Class II/IIA.

(U) ATDLS Improvement program also develops new and improved capabilities for Navy TADIL-J users. The Command and Control Processor (C2P) is a software development effort that provides an interface between the TADILs (Link 4A, 11, and 16) and major surface ship Command and Control Systems (Advanced Combat Direction System (ACDS) and AEGIS C&D). Common Data Link Management System (CDLMS) is a Pre-planned Product Improvement (P3I) of the C2P. The CDLMS will provide translation between TADILs and isolate all tactical data link equipment, message standards and protocols from tactical information processors. This will provide a flexible capability for rapidly exchanging tactical information using a single database for translating various link formats while remaining completely independent of communications equipment and tactical data computing systems.

(U) This project also funds: (1) the development required to accommodate expanded LINK-16 operational capabilities for additional warfare areas, (2) development of automated network management aids, and (3) systems engineering and contractor support efforts.

(U) Additional terminal development costs are funded in program element 0604771D.

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

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DATE: February 2000

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0205604N
PROGRAM ELEMENT TITLE: Tactical Data Links

PROJECT NUMBER: X2126
PROJECT TITLE: ATDLS Integration

1. (U) FY 1999 Accomplishments:

- (U) (\$29,774) Continued F/A-18 MIDS integration software and aircraft design modifications and testing.
- (U) (\$4,934) Continued TADIL-J System Engineering to include investigating future capabilities and enhancements and ensuring Naval upgrades are interoperable with Joint U.S. and allied forces, such as joint range extension and enhanced throughput.
- (U) (\$5,931) Continued Performance Upgrades including C2P Model 5 improvements, Common Data Link Management System (CDLMS) development, and Satellite-TADIL-J development.
- (U) (\$2,615) Continued MIDS on Ship development and testing.
- (U) (\$1,267) Commenced Dual Net Link 11 development in Common Data Link Management System (CDLMS).
- (U) (\$900) Commenced TADIL-J architecture study for Korean Air Defense System Improvements.

2. (U) FY 2000 PLAN:

- (U) (\$32,925) Continue F/A-18 MIDS integration software and aircraft design modifications and testing.
- (U) (\$2,436) Continue TADIL-J System Engineering to include investigating future capabilities and enhancements and ensuring Naval upgrades are interoperable with Joint U.S. and allied forces such as joint range extension and enhanced throughput.
- (U) (\$5,085) Continue Performance Upgrades including C2P Model 5 improvements, Common Data Link Management System (CDLMS) development, and Satellite-TADIL-J development.
- (U) (\$1,779) Continue MIDS on Ship development and testing.

3. (U) FY 2001 PLAN

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Exhibit R-3, Project Justification

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FY 2001 RDT&E,N PROJECT JUSTIFICATION

DATE: February 2000

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0205604N
PROGRAM ELEMENT TITLE: Tactical Data Links

PROJECT NUMBER: X2126
PROJECT TITLE: ATDLS Integration

- (U) (\$17,140) Continue F/A-18 MIDS integration software and aircraft design modifications and testing.
- (U) (\$2,412) Continue TADIL-J System Engineering to include investigating future capabilities and enhancements and ensuring Naval upgrades are interoperable with Joint U.S. and allied forces such as joint range extension and enhanced throughput.
- (U) (\$1,917) Continue Performance Upgrades including C2P Model 5 Improvements, Common Data Link Management System (CDLMS) development, and Satellite-TADIL-J development.
- (U) (\$600) Complete MIDS on Ship development and testing.

B. (U) PROGRAM CHANGE SUMMARY:

(U) Funding:

FY1999: Reflects Congressional reduction for Inflation Savings (- \$205K). Transfer for SBIR/STTR (-\$1,141K), adjustment for Dual Net Link 11 (\$1,267K), LOCO-GPSI Reprogramming (- \$373K), Korean Air Defense System Improvements (+ \$900K) and Miscellaneous Department Adjustments (+ \$243K).

FY 2000: Reflects Congressional Adjustment (- \$234K). \$ 594 K Portion of extramural program is reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.

FY 2001: Increase for F/A-18 MIDS Integration (\$4,000K) and Miscellaneous Department Adjustments (- \$338K).

(U) Schedule: MIDS DAB MS III has slipped from 3Q/00 to 2Q/01 as a result of EMD terminal immaturity.

(U) Technical: Not applicable.

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Exhibit R-3, Project Justification

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 FY 2001 RDT&E,N PROJECT JUSTIFICATION

DATE: February 2000

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0205604N
 PROGRAM ELEMENT TITLE: Tactical Data Links

PROJECT NUMBER: X2126
 PROJECT TITLE: ATDLS Integration

C. (U) OTHER PROGRAM FUNDING SUMMARY: (Dollars in Thousands)

NUMBER TITLE	<u>FY 1999 ESTIMATE</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>
(U) APN LINE									
LI 052500 F/A-18	9,331	46,994	49,744	56,500	48,186	48,869	40,469	CONT	CONT
LI 054400 E2C	644	480	728	1,222	1,950	708	682	CONT	CONT
(U) RDT&E,DA	29,809	28,616	16,250	16,478	16,790	17,116	17,449	CONT	CONT
(U) OPN LI 2614 ATDLS	28,787	19,036	19,153	14,908	16,262	33,463	32,173	CONT	CONT
(U) SCN	11,900	19,600	26,247	22,076	24,137	22,376	20,946	CONT	CONT

(U) RELATED RDT&E:

PE 0604771D/P771 - Link 16: Link 16 systems engineering support.
 PE 0604771D/P773 - MIDS: MIDS-LVT terminal development.

D. (U) ACQUISITION STRATEGY: F/A-18 MIDS aircraft integration is utilizing cost plus fix fee contract on an R&D Basic Ordering Agreement with Boeing. MIDS integration and testing, TADIL-J systems engineering, and performance upgrades development are utilizing existing cost plus contracts.

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PROGRAM ELEMENT: 0205604N
 PROGRAM ELEMENT TITLE: Tactical Data Links

PROJECT NUMBER: X2126
 PROJECT TITLE: ATDLS Integration

E. (U) SCHEDULE PROFILE

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>TO COMPLETE</u>
Program Milestones		LRIP Rvw 2Q/00	DAB MS III 2Q/01	IOC 2Q/01 Ship IOC 2Q/03 Air
Engineering Milestones				
T&E Milestones	F/A-18 DT-IIA-4 1Q/99 F/A-18 DT-IIA-3 4Q/99	F/A-18-OT-IIA-2-2Q/00 F/A-18 DT-IIA-5 2Q/00 F/A-18-OT-IIA-3-2Q/00	F/A-18 DT-IIA-6 1Q/01 F/A-18 OT-IIA-4 4Q/01	F/A-18 DT-11A-7 1Q/02 F/A-18 TECHEVAL 4Q/02 F/A-18 OPEVAL 1Q/03 F/A-18 FOT&E 3Q/03
		Ship DT/OT-IIB-1 3Q/00	Ship DT/OT-IIB-2 1Q/01	
Contract Milestones		MIDS LRIP contract 2Q/00		

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PROGRAM ELEMENT: 0205604N
 PROGRAM ELEMENT TITLE: Tactical Data Links

PROJECT NUMBER: X2126
 PROJECT TITLE: ATDLS Integration

Exhibit R-3 Cost Analysis (page 1)												
APPROPRIATION: RDT&E,N BUDGET ACTIVITY: 7				PROGRAM ELEMENT: 0205604N				Tactical Data Links				
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY99 Cost	FY99 Award Date	FY00 Cost	FY00 Award Date	FY01 Cost	FY01 Award Date	Cost To Complete	Total Cost	Target Value of Contract
F/A-18 Integration	PD	NAVAIRSYSCOM PAX River, MD	71,430	18,348	Various	17,659	Various	7,920	Various	34,303	149,660	149,660
TADIL-J System Engineering	WX	SPAWARSYSCTR San Diego, CA	22,462	1,700	Various	700	Various	545	Various	Cont.	Cont.	
TADIL-J System Engineering	Various	Various	502	2,287	Various	1,392	Various	1,168	Various	Cont.	Cont.	
MIDS on Ship	CPIF	GEC Marconi Wayne, NJ	7,718	1,600	Dec 98	900	Various	300	Dec 00		10,518	10,518
MIDS on Ship	Various	Various	41,407	540	Various	400	Various					
Performance Upgrades	WX	SPAWARSYSCOM San Diego, CA	3,652	3,818	Various	4,414	Various	907	Various	Cont.	Cont.	
Performance Upgrades	Various	Various		1,804	Various	103	Various					
Air Defense System Integrator	CPFF	Adv Programming Concepts, TX	2,059									
Dual Net Link 11	WX	Various		1,267	Various							
Korean Air Defense Sys Impr	CPFF	JHU/APL		900	9/99						900	900
Subtotal Product Development			149,230	32,264		25,568		10,840		Cont.	Cont.	Cont.
Remarks												

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PROGRAM ELEMENT: 0205604N
 PROGRAM ELEMENT TITLE: Tactical Data Links

PROJECT NUMBER: X2126
 PROJECT TITLE: ATDLS Integration

Exhibit R-3 Cost Analysis (page 2)												
APPROPRIATION: RDT&E,N BUDGET ACTIVITY: 7			PROGRAM ELEMENT: 0205604N						Tactical Data Links			
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY99 Cost	FY99 Award Date	FY00 Cost	FY00 Award Date	FY01 Cost	FY01 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Subtotal Support												
Remarks												
Test and Evaluation	Various	Various	3,580	55	8/99	200	12/99	150	12/00	500	4,485	4,485
MIDS F/A-18 T&E	Various	Various	4,549	11,371	Various	15,101	Various	9,699	Various	11,988	52,708	52,708
MIDS on Ship T&E	WX	SPAWARSSYSCOM San Diego, CA		350	Various	300	Various	300	Various		950	950
MIDS Test Assets	SS/CPAF /IF	MIDSCO Fairfield, NJ	6,594								6,594	6,594
Subtotal T&E			14,723	11,776		15,601		10,149		Cont.	Cont.	Cont.
Remarks												
ATDLS Engineering	RCP	MITRE	606	710		100		105		Cont.	Cont.	
Engineering Support and Travel	Various	Various		671	Various	956	Various	975	Various	Cont.	Cont.	
Subtotal Management			606	1,381		1,056		1,080		Cont.	Cont.	
Total Cost			164,559	45,421		42,225		22,069		Cont.	Cont.	Cont.