

UNCLASSIFIED
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BUDGET ITEM JUSTIFICATION SHEET						DATE				
APPROPRIATION/BUDGET ACTIVITY						P-1 ITEM NOMENCLATURE			SUBHEAD	
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT						Advanced Tactical Data Link Systems 2614			52DR	
	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	TO COMP	TOTAL	
QUANTITY										
COST (in millions)	9.004	16.063	2.386	13.237	11.562	11.795	12.033	Continuing	Continuing	

PROGRAM COVERAGE: The Advanced Tactical Data Link Systems (ATDLS) funds the Time Division Multiple Access (TDMA) family of Link 16 terminals including the Joint Tactical Information Distribution System (JTIDS) terminals and the Multifunctional Information Distribution System - Low Volume Terminal (MIDS-LVT) and the Tactical Digital Information Link J (TADIL J) message standard databases resident in the Command & Control Processor (C2P) sub-system. The Common Data Link Management System (CDLMS) is designated as Pre-planned Product Improvement (P3I) of the C2P. ATDLS also funds the LMS 16 Link Monitoring System and the Next Generation C2P which will support Link-22, Joint Range Extension and other ATDLS enhancements

AN/URC-107(V) TERMINALS (JTIDS): AN/URC-107(V) Joint Tactical Information Distribution System (JTIDS) is an advanced radio system that provides information distribution, position location, and identification capabilities in an integrated form for application to military operations. The system is able to distribute information at high rates, encrypted to provide security, and with sufficient jam resistance to yield high reliability communications in a hostile electromagnetic environment. JTIDS provides the ability to interconnect multiple sources (air, ground, maritime, subsurface, and electronic warfare) and users of information. It provides surface and airborne elements with both a position location capability within a common position reference grid and an intrinsic identification capability through the dissemination of secure position and identity information. It is a multiservice system in that Army JTIDS interoperates with the U.S. Air Force, U.S. Navy, and U.S. Marines JTIDS Class 2 terminals.

AN/UYQ-86 COMMAND AND CONTROL PROCESSOR (C2P) REHOST (C2P(R))/COMMON DATA LINK MANAGEMENT SYSTEM (CDLMS): AN/UYQ-86 C2P(R)/CDLMS program is the acquisition of commercial-off-the-shelf (COTS) versa module eurocards (VME) based Navy computers in conjunction with a software suite to provide the interface between tactical and digital communication systems and selected shipboard processors (Advanced Combat Direction Systems (ACDS) and AEGIS Command & Decision (C&D)). C2P extracts information from the Tactical Digital Information Links (TADILS) A, C & J (or Link 11, Link 4A, and Link 16), translates between TADILS and provides the information back to the on-board processor. This provides flexible capability for rapidly exchanging tactical information using a universal database for translating various Link formats while remaining independent of communication equipment and tactical data computing systems. C2P Rehost uses COTS hardware (AN/UYQ-70), making the system easier and cheaper to upgrade and maintain.

CDLMS is designated as the pre-planned product improvement to the C2P. It is integrated with the C2P(R) via a set of commercial VME processors to provide enhanced, consolidated displays to monitor and analyze multi-TADIL networks graphically. All procurement of CDLMS hardware will include the Satellite-TADIL-J (S-TADIL-J), and the Electronic JTIDS Network Library (EJNL). S-TADIL-J consists of an additional set of cards and cables integrated into the CDLMS chassis, enabling the system to send Link 16 information over satellite, providing range extension beyond the Theater of Operation E-JNL provides pre-defined networks (configurations of ships and aircraft) allowing immediate access to different operational configurations. This minimizes delays for reconfiguring the network when new platforms are introduced to a mission.

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GET ITEM JUSTIFICATION SHEET (Continued)		DATE
APPROPRIATION/BUDGET ACTIVITY OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	P-1 ITEM NOMENCLATURE Advanced Tactical Data Link System 2614	SUBHEAD 52DR
<p>CDLMS TECHNOLOGY REFRESH: The CDLMS is comprised of Commercial-Off-the Shelf (COTS) products. Existing processors have become obsolete and no longer available for procurement. In addition, the existing processor's current speed and memory capabilities do not support efficient software performance. The CDLMS Technology Refresh Program will allow fielding of current processing capability to ensure optimum operational performance.</p> <p>NEXT GENERATION COMMAND AND CONTROL PROCESSOR (NGC2P) FIELD CHANGE KIT Ship/Shore: The NGC2P (Link 22) Field Change Kit provides existing Model 5 CDLMS units on the ship and shore to next generation open system hardware and software architecture. NGC2P provides a system capable of supporting critical data link functions including simultaneous processing of Dual Net Multi-Frequency Link 11, Link 16, Link 22, Joint Range Extension (JRE) and High Throughput Link 16.</p> <p>MODEL 4 NEXT GENERATION COMMAND AND CONTROL PROCESSOR (NGC2P) Upgrade: The Model 4 NGC2P Upgrade (DN Link 11/ Link 22) upgrades existing Model 4 C2P rehost units to next generation open system hardware and software architecture. NGC2P provides a system capable of supporting critical data link functions including simultaneous processing of Dual Net Multi-Frequency Link 11, Link 16, Link 22, Joint Range Extension (JRE) and High Throughput Link 16.</p> <p>MODEL 4 NEXT GENERATION COMMAND AND CONTROL PROCESSOR (NGC2P) Backfit: The Model 4 NGC2P Back Fit replaces outdated AN/UYK-43 C2P on Model 4 ships with next generation open system hardware and software architecture. NGC2P provides a system capable of supporting critical data link functions including simultaneous processing of Dual Net Multi-Frequency Link 11, Link 16, Link 22, Joint Range Extension (JRE) and High Throughput Link 16.</p> <p>LMS-16 (LINK MONITORING SYSTEM): The LMS-16 provides for improved Link 16 network diagnostics, system monitoring and control capabilities. Network performance monitoring by platform and time slot allocation provide critical data to optimize the Link 16 network. Ruggedized LMS-16 hardware/software will allow the operator to analyze the Link-16 network in real-time and adjust network performance to support Theater Air Defense/Theater Missile Defense by Battle Groups and Joint Task Forces.</p> <p>MIDS ON SHIP (MOS): The Multi-Functional Information Distribution System Low Volume Terminal (MIDS-LVT) is a five nation cooperative program that provides a third generation Link 16 system that satisfies U.S. and allied requirements to exchange tactical information in a digital format across a broad range of sources. Building on JTIDS, MIDS uses the latest technology to reduce system size and weight. It is designed to be readily reconfigurable for different user needs. MOS consists of a MIDS-LVT integrated into a JTIDS type Electronics Cabinet Assembly including a Terminal Controller, High Power Amplifier/Adapter, and Ship Antenna Power Supplies.</p> <p>JUSTIFICATION OF FY 03 REQUIREMENTS: FY03 funds will be used to procure CDLMS Technology Refresh, Link Monitoring System (LMS-16), MIDS on Ship - Shore and associated production support and training. Funding will be also used for Link 16 Alteration Installation Team (AIT) and shipyard installs for C2P(R)/CDLMS Backfits and LMS-16.</p> <p>JUSTIFICATION OF FY 04 REQUIREMENTS: FY04 funds will be used to procure C2P(R)/CDLMS Forward Fit, NGC2P Field Change Kit for Ship and Shore, MIDS on Ship -Shore, MIDS on Ship Forward Fit and associated production support and training. Funding will be also used for Link 16 Alteration Installation Team (AIT) and shipyard installs for C2P(R)/CDLMS Backfit .</p> <p>JUSTIFICATION OF FY 05 REQUIREMENTS: FY05 funds will be used for C2P(R)/CDLMS Forward Fit, NGC2P Field Change Kit Ship/Shore, and MIDS on Ship Shore Production Support. FY05 funds will also be used for Link 16 Alteration Installation Team (AIT) and shipyard installs for NGC2P Field Change Kit for Ship and Shore and MIDS on Ship - Shore.</p> <p>INSTALLATION AGENT: Space and Naval Warfare Systems Center, San Diego (SSC-SD) and Charleston (SSC-CH).</p>		

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BUDGET ITEM JUSTIFICATION SHEET (Continued)		DATE
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE
SUBHEAD		
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT	Advanced Tactical Data Link System 2614	February 2004 52DR
<p>DEFINITIONS OF COST CODES:</p> <p>DR003: AN/UYQ-86 (C2P/C2P(R)/CDLMS): All hardware costs associated with Command and Control Processor (C2P), C2P Rehost, Common Data Link Management System (CDLMS), Common Shipboard Data Terminal Sets (CSDTS), Satellite-TADIL-J, Electronic JTIDS Network Library (E-JNL), CDLMS Technology Refresh, Next Generation C2P and all associated ECPs.</p> <p>DR006: LMS-16 (LINK MONITORING SYSTEM): All hardware costs associated with a stand-alone LMS-16 workstation which includes monitor, keyboard, associated antenna and software license agreement.</p> <p>DR010: MIDS ON SHIP: All hardware and nonrecurring engineering cost associated with MIDS on Ship High Power Link 16 terminal includes MIDS Low Volume Terminal (LVT), Ship Antennas, Electronic Cabinet Assembly, Filtering devices, High Power Amplifier Group (HPAG), Terminal controller, and all associated ECPs. MOS terminals scheduled to be procured for training sites will not require the procurement of a new antenna.</p> <p>DR555: PRODUCTION SUPPORT (AN/UYQ-86): Annualized production support includes evaluation of C2P(R)/CDLMS ECPs and production support services for CDLMS, S-TADIL-J, E-JNL, and CDLMS Technology Refresh, Next Generation C2P; and MIDS on Ship production support services and the evaluation of MIDS Engineering Change Proposals (ECPs).</p> <p>DR666: TRAINING CURRICULUM: Training Curriculum (end-item) for MIDS on Ship Terminal and Next Generation C2P.</p> <p>DR777: INSTALLATION: Link 16 equipment installations into shore and training facilities. Link 16 Alteration Installation Team (AIT), shipyard installs and DSA, Electronic Environment Effects (EEE) testing , and installation engineering and integration coordination for the Fleet. Covers AIT ship installs for JTIDS/C2P(R), MIDS/CDLMS, C2P(R)/CDLMS backfits, S-TADIL-J backfits, E-JNL backfits and Next Generation C2P.</p>		

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COST ANALYSIS						DATE February 2004						
APPROPRIATION ACTIVITY OP,N - BA-2 COMMUNICATIONS AND ELECTRONIC EQUIPMENT						P-1 ITEM NOMENCLATURE Advanced Tactical Data Link Systems 2614				SUBHEAD 52DR		
COST CODE	ELEMENT OF COST	ID CODE	FY 2003			FY 2004			FY 2005			
			TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
DR003	AN/UYQ-86 (C2P / C2P (R) / CDLMS) Forward Fit	A					2	558.0	1,116			
DR003	CDLMS Technology Refresh (Field Change Kit) (Note 1)	A		15	23.7	356						
DR003	NGC2P Field Change Kit Ship (Note 2)	B					19	194.5	3,696			
DR003	NGC2P Field Change Kit Shore (Note 2)	B					6	200.0	1,200			
DR006	Link Monitoring System (LMS-16)	A		2	309.0	618						
DR010	MIDS on Ship Shore	A		2	1,478.0	2,956	2	1,500.0	3,000			
DR010	MIDS on Ship Forward Fit	B					2	1,604.0	3,208			
DR555	Production Support	N/A				268			813			514
DR666	Training Curriculum	N/A				766			500			
DR777	Installation	N/A				4,040			2,530			1,872
	Installation of Equipment / Non-FMP											1,202
	Installation of Equipment / FMP					3,521			2,162			276
	DSA					519			368			394
	TOTAL CONTROL					9,004			16,063			2,386

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Note 1: No installation costs are associated with the CDLMS Technology Refresh (Field Change Kit).

Note 2: The PB 04 budget reflected the procurement of five Interim NGC2P w/DNMFL units in FY 04. Due to the acceleration of Next Generation Command and Control Processor capability into the fleet, stand alone Interim NGC2P units are no longer required. NGC2P Field Change Kits will implement the capability into existing equipment.

**Exhibit P-5, Budget Item Justification
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PROCUREMENT HISTORY AND PLANNING									DATE					
B. APPROPRIATION/BUDGET ACTIVITY									C. P-1 ITEM NOMENCLATURE				SUBHEAD	
OP,N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT									Advanced Tactical Data Link Systems 2614				52DR	
COST CODE	ELEMENT OF COST	FY	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	LOCATION OF PCO	RFP ISSUE DATE	AWARD DATE	DATE OF FIRST Delivery	QTY	UNIT COST	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE		
DR003	AN/UYQ-86 (C2C / C2P (R) / CDLMS) Forward Fit	04	TBD	FFP	TBD	N/A	Apr-04	Oct-05	2	558.0	YES	N/A		
DR003	NGC2P Field Change Kit ship	04	TBD	FFP	TBD	N/A	Aug-04	Aug-05	19	194.5	YES	N/A		
DR003	NGC2P Field Change Kit shore	04	TBD	FFP	TBD	N/A	Aug-04	Aug-05	6	200.0	Yes	N/A		
DR010	MIDS on Ship Shore (Note 1)	03	DLS, Inc., Cedar Rapids, IA	FFP	SPAWAR	N/A	Dec-02	Dec-04	2	1,478.0	YES	N/A		
		04	DLS, Inc., Cedar Rapids, IA	FFP	SPAWAR	N/A	Mar-04	Mar-06	2	1,500.0	YES	N/A		
DR010	MIDS on Ship Forward Fit (Note 1)	04	DLS, Inc., Cedar Rapids, IA	FFP	SPAWAR	N/A	Mar-04	Mar-06	2	1,604.0	YES	N/A		
REMARKS														

Note 1: For FY04 procurement only. Pending ASN (RD&A) approval of emerging requirements under Navy LRIP Lot 4 decision.

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MODIFICATION TITLE: AN/UYQ-86 (C2P(R)/CDLMS) BACKFIT SHIP INSTALLATIONS
 COST CODE: DR003

MODELS OF SYSTEMS AFFECTED:
 DESCRIPTION/JUSTIFICATION: The C2P(R)/CDLMS equipment performs data link processing functions and provides the interface between the Tactical Digital Information Links (TADILS) and selected shipboard processors. CDLMS provides the ability to graphically display multiple TADIL networks for monitoring and analysis. The purpose of C2P(R)/CDLMS backfits is to upgrade the outdated AN/UYK-43 in the fleet with the new AN/UYQ-86 COTS equipment. CDLMS includes S-TADIL-J and E-JNL. Identified installation costs include S-TADIL-J and E-JNL installations in FY 01.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: POST MS III

FINANCIAL PLAN: (\$ in millions)

	PY		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																						
PROCUREMENT:																						
Kit Quantity																						
Installation Kits Nonrecurring		0.4																				0.4
Equipment	37	19.9	4	1.9																	41	21.8
Equipment Nonrecurring																						
Engineering Change Orders																						
Data																						
Training Equipment																						
Production Support		0.7		0.2																		0.9
Other (DSA)		2.0		0.5		0.2		0.1														2.8
Interm Contractor Support																						
Installation of Hardware*	20	12.6	12	4.4	5	3.1	4	2.2													41	22.2
PRIOR YR EQUIP	12	7.6																			12	7.6
FY 00 EQUIP	8	5.0	9	3.8																	17	8.8
FY 01 EQUIP			3	0.6	5	3.1															8	3.7
FY 02 EQUIP							4	2.2													4	2.2
FY 03 EQUIP																						
FY 04 EQUIP																						
FY 05 EQUIP																						
FY 06 EQUIP																						
FY 07 EQUIP																						
FY TC EQUIP																						
TOTAL INSTALLATION COST		12.6		4.4		3.1		2.2														22.2
TOTAL PROCUREMENT COST		35.5		7.0		3.3		2.3														48.1

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 2 MOS

PRODUCTION LEADTIME: 12 MOS

CONTRACT DATES:

FY 2003:

FY 2004:

FY 2005:

DELIVERY DATES:

FY 2003:

FY 2004:

FY 2005:

INSTALLATION SCHEDULE:

PY	FY 04				FY 05				FY 06				
	1	2	3	4	1	2	3	4	1	2	3	4	
INPUT	37		1	1	1	1							
OUTPUT	35		2	1	1	1		1					

INSTALLATION SCHEDULE:

PY	FY 07				FY 08				FY 09				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT														41
OUTPUT														41

Notes/Comments

- 1. Total quantity meets inventory objective.
- 3. FY02 costs include C2P upgrade.

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MODIFICATION TITLE:
 COST CODE
 MODELS OF SYSTEMS AFFECTED:
 DESCRIPTION/JUSTIFICATION:

AN/UYQ-86 (C2P(R)/CDLMS) FORWARD FIT INSTALLATIONS
 DR003

The C2P(R)/CDLMS equipment performs data link processing functions and provides the interface between the Tactical Digital Information Links (TADILS) and selected shipboard processors
 CDLMS provides the ability to graphically display multiple TADIL networks for monitoring and analysis.
 The cost of installing C2P(R)/CDLMS is included in the JTIDS terminal installation cost (reflected in P-3A for DR001) for FY PY-02 and in MIDS on Ship installation cost (reflected in P-3A for DR010) for FY 06.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **POST MS III**
 FINANCIAL PLAN: (\$ in millions)

	PY		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																						
PROCUREMENT:																						
Kit Quantity																						
Installation Kits																						
Installation Kits Nonrecurring																						
Equipment	58	58.0					2	1.1													60	59.1
Equipment Nonrecurring																						
Engineering Change Orders																						
Data																						
Training Equipment																						
Production Support								0.1		0.1												0.1
Other (DSA)																						
Interim Contractor Support																						
Installation of Hardware*	57	0.0	1	0.0							2	0.0									60	0.0
PRIOR YR EQUIP	57	0.0	1	0.0																	58	0.0
FY 00 EQUIP																						
FY 01 EQUIP																						
FY 02 EQUIP																						
FY 03 EQUIP																						
FY 04 EQUIP											2	0.0									2	0.0
FY 05 EQUIP																						
FY 06 EQUIP																						
FY 07 EQUIP																						
FY TC EQUIP																						
TOTAL INSTALLATION COST		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
TOTAL PROCUREMENT COST		58.0		0.0		0.0		1.2		0.1		0.0		0.0		0.0		0.0		0.0		59.2

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 2 MOS

PRODUCTION LEADTIME: 18 MOS

CONTRACT DATES:

FY 2003: FY 2004: Apr-04 FY 2005:

DELIVERY DATES:

FY 2003: FY 2004: Oct-05 FY 2005:

INSTALLATION SCHEDULE:

PY	FY 04				FY 05				FY 06				
	1	2	3	4	1	2	3	4	1	2	3	4	
INPUT	58										1	1	
OUTPUT	58											1	1

INSTALLATION SCHEDULE:

PY	FY 07				FY 08				FY 09				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT														60
OUTPUT														60

Notes/Comments

- Total quantity meets inventory objective.
- Production leadtime varies between 12 to 18 months. For forward fit ships, JTIDS or MIDS on Ship and UYQ-86(C2P/CDLMS) are installed as a ship set except for command ships. Delivery of forward fit units takes six months longer than those procured into existing suites. This is due to longer integration and testing time at the SPAWAR Systems Center.
- Installation costs are included in the JTIDS (DR001) or MIDS on Ship (DR010) installation costs.

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MODIFICATION TITLE: **NEXT GENERATION COMMAND AND CONTROL PROCESSOR (NGC2P) FIELD CHANGE KIT SHIP**
 COST CODE: **DR003**

MODELS OF SYSTEMS AFFECTED:
 DESCRIPTION/JUSTIFICATION: **The NGC2P (Link 22) Field Change Kit provides existing Model 5 CDLMS units on the ship to next generation open system hardware and software architecture. NGC2P provides a system capable of supporting critical data link functions including simultaneous processing of Dual Net Multi-Frequency Link 11, Link 16, Link 22, Joint Range Extension (JRE) and High Throughput Link 16.**

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **POST MS III (NGC2P is a P31 to C2P/CDLMS)**
 FINANCIAL PLAN: (\$ in millions)

	PY		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		TC		Total			
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
RDT&E																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kits Nonrecurring																								
Equipment							19	3.7			25	5.2	17	3.7	19	4.2	5	1.2			85	17.9		
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment								0.5															0.5	
Production Support								0.2		0.01		0.2		0.3		0.3		0.1		0.1			1.1	
Other (DSA)								0.3		0.3		0.8		0.6		0.6		0.3		0.0			2.8	
Interm Contractor Support																								
Installation of Hardware*									3	0.3	16	1.5	25	2.4	17	1.7	19	2.0	5	0.5	85	8.4		
PRIOR YR EQUIP																								
FY 00 EQUIP																								
FY 01 EQUIP																								
FY 02 EQUIP																								
FY 03 EQUIP																								
FY 04 EQUIP									3	0.3	16	1.5										19	1.8	
FY 05 EQUIP																								
FY 06 EQUIP													25	2.4									25	2.4
FY 07 EQUIP															17	1.7							17	1.7
FY 08 EQUIP																	19	2.0					19	2.0
FY TC EQUIP																			5	0.5			5	0.5
TOTAL INSTALLATION COST										0.3		1.5		2.4		1.7		2.0		0.5			8.4	
TOTAL PROCUREMENT COST								4.6		0.6		7.6		7.0		6.8		3.5		0.6			30.7	

ADMINISTRATIVE LEADTIME: 2 MOS PRODUCTION LEADTIME: 12 MOS

CONTRACT DATES: FY 2004: Aug-04 FY 2005:

DELIVERY DATES: FY 2004: Aug-05 FY 2005:

INSTALLATION SCHEDULE:	FY 04				FY 05				FY 06					
	PY	1	2	3	4	1	2	3	4	1	2	3	4	
INPUT									3		4	4	4	4
OUTPUT											3	4	4	4

INSTALLATION SCHEDULE:	FY 07				FY 08				FY 09				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT	7	6	6	6	5	4	4	4	5	5	5	4	5	85
OUTPUT	4	7	6	6	6	5	4	4	4	5	5	5	9	85

Notes/Comments
 1. Total quantity meets inventory objective.

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MODIFICATION TITLE: **NEXT GENERATION COMMAND AND CONTROL PROCESSOR (NGC2P) FIELD CHANGE KIT SHORE**
 COST CODE **DR003**

MODELS OF SYSTEMS AFFECTED:
 DESCRIPTION/JUSTIFICATION: **The NGC2P (Link 22) Field Change Kit provides existing Model 5 CDLMS units on the shore to next generation open system hardware and software architecture. NGC2P provides a system capable of supporting critical data link function including simultaneous processing of Dual Net Multi-Frequency Link 11, Link 16, Link 22, Joint Range Extension (JRE) and High Throughput Link 1**

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **POST MS III (NGC2P is a P31 to C2P/CDLMS)**
 FINANCIAL PLAN: (\$ in millions)

	PY		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		TC		Total		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																							
PROCUREMENT:																							
Kit Quantity																							
Installation Kits																							
Installation Kits Nonrecurring																							
Equipment							6	1.2													6	1.2	
Equipment Nonrecurring																							
Engineering Change Orders																							
Data																							
Training Equipment																							
Production Support								0.1		0.1													0.2
Other (DSA)																							
Interm Contractor Support																							
Installation of Hardware*										6	0.5										6	0.5	
PRIOR YR EQUIP																							
FY 00 EQUIP																							
FY 01 EQUIP																							
FY 02 EQUIP																							
FY 03 EQUIP																							
FY 04 EQUIP										6	0.5										6	0.5	
FY 05 EQUIP																							
FY 06 EQUIP																							
FY 07 EQUIP																							
FY TC EQUIP																							
TOTAL INSTALLATION COST										0.5													0.5
TOTAL PROCUREMENT COST								1.3		0.5													1.8
METHOD OF IMPLEMENTATION:	ADMINISTRATIVE LEADTIME:						2 MOS		PRODUCTION LEADTIME:						12 MOS								

CONTRACT DATES: FY 2004: Dec-03 FY 2005:

DELIVERY DATES: FY 2004: Dec-04 FY 2005:

INSTALLATION SCHEDULE:	FY 04				FY 05				FY 06					
	PY	1	2	3	4	1	2	3	4	1	2	3	4	
INPUT														6
OUTPUT														6

INSTALLATION SCHEDULE:	FY 07				FY 08				FY 09				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT														6
OUTPUT														6

Notes/Comments

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MODIFICATION TITLE: **LMS-16 LINK MONITORING SYSTEM INSTALLATIONS**
 COST CODE **DR006**

MODELS OF SYSTEMS AFFECTED:
 DESCRIPTION/JUSTIFICATION: **LMS-16 provides improved Link 16 network diagnostics, system monitoring and control capabilities. Network performance monitoring by platform and time slot allocation provide critical data to optimize the Link 16 network. LMS-16 are being installed at five NCTSI shore based detachments, one on the USS Stennis, one on the USS Nimitz and one on the USS Enterprise.**

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **POST MS III**
 FINANCIAL PLAN: (\$ in millions)

	PY		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																						
PROCUREMENT:																						
Kit Quantity																						
Installation Kits																						
Installation Kits Nonrecurring																						
Equipment	6	2.4			2	0.6															8	3.0
Equipment Nonrecurring																						
Engineering Change Orders																						
Data																						
Training Equipment																						
Production Support		0.1				0.1																0.2
Other (DSA)						0.3																0.3
Interim Contractor Support																						
Installation of Hardware*	1	0.1			2	0.4															3	0.6
PRIOR YR EQUIP																						
FY 00 EQUIP																						
FY 01 EQUIP	1	0.1																			1	0.1
FY 02 EQUIP																						
FY 03 EQUIP					2	0.4															2	0.4
FY 04 EQUIP																						
FY 05 EQUIP																						
FY 06 EQUIP																						
FY 07 EQUIP																						
FY TC EQUIP																						
TOTAL INSTALLATION COST		0.1				0.4																0.6
TOTAL PROCUREMENT COST		2.7				1.5																4.2

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 2 MOS

PRODUCTION LEADTIME: 6 MOS

CONTRACT DATES:

FY 2003: Dec-02

FY 2004:

FY 2005:

DELIVERY DATES:

FY 2003: Dec-02

FY 2004:

FY 2005:

INSTALLATION SCHEDULE:

PY	FY 04				FY 05				FY 06			
	1	2	3	4	1	2	3	4	1	2	3	4
INPUT	3											
OUTPUT	3											

INSTALLATION SCHEDULE:

	FY 07				FY 08				FY 09				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT														3
OUTPUT														3

Notes/Comments

- Total quantity meets inventory objective.
- NCTSI is funding the installation costs for the five LMS 16 units being installed at NCTSI detachments.

UNCLASSIFIED

February 2004

MODIFICATION TITLE: **MIDS ON SHIP SHORE INSTALLATIONS**
 COST CODE: **DR010**

MODELS OF SYSTEMS AFFECTED:

DESCRIPTION/JUSTIFICATION: **MIDS is an advanced radio system providing information distribution, position location, and identification capability at high rates of speed, crypto-secure, and jam resistant. MIDS Terminals are the result of a five-nation cooperative program to provide third generation Link 16 capability at a reduced size, reduced weight, and ultimately a lower cost. Installation of MIDS on Ship at a shore installation (training site) does not require the installation of the associated antenna.**

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **FY 03 - LRIP 3/FY 04 - MS III**

FINANCIAL PLAN: (\$ in millions)

	PY		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																						
PROCUREMENT:																						
Kit Quantity																						
Installation Kits																						
Installation Kits Nonrecurring																						
Equipment					2	3.0	2	3.0													4	6.0
Equipment Nonrecurring																						
Engineering Change Orders																						
Data																						
Training Equipment						0.8																0.8
Production Support						0.2		0.3		0.4		0.2										1.1
Other (DSA)																						
Interim Contractor Support																						
Installation of Hardware*									2	0.8	2	0.9									4	1.6
PRIOR YR EQUIP																						
FY 00 EQUIP																						
FY 01 EQUIP																						
FY 02 EQUIP																						
FY 03 EQUIP									2	0.8											2	0.8
FY 04 EQUIP											2	0.9									2	0.9
FY 05 EQUIP																						
FY 06 EQUIP																						
FY 07 EQUIP																						
FY TC EQUIP																						
TOTAL INSTALLATION COST										0.8		0.9										1.6
TOTAL PROCUREMENT COST						3.9		3.3		1.2		1.1										9.4

METHOD OF IMPLEMENTATION:

ADMINISTRATIVE LEADTIME: 2 MOS PRODUCTION LEADTIME: 24 MOS

CONTRACT DATES:

FY 2003: Dec-02 FY 2004: Mar-04 FY 2005:

DELIVERY DATES:

FY 2003: Dec-04 FY 2004: Mar-06 FY 2005:

INSTALLATION SCHEDULE:

PY	FY 04				FY 05				FY 06			
	1	2	3	4	1	2	3	4	1	2	3	4
INPUT						2					2	
OUTPUT							2					2

INSTALLATION SCHEDULE:

	FY 07				FY 08				FY 09				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT														4
OUTPUT														4

Notes/Comments

1. Total Quantity meets inventory objective.

UNCLASSIFIED

February 2004

MODIFICATION TITLE: **MIDS ON SHIP FORWARD FIT INSTALLATIONS**
 COST CODE: **DR010**

MODELS OF SYSTEMS AFFECTED:
 DESCRIPTION/JUSTIFICATION: **MIDS is an advanced radio system providing information distribution, position location, and identification capability at high rates of speed, crypto-secure, and jam resistant. MIDS Terminals are the result of a five-nation cooperative program to provide third generation Link 16 capability at a reduced size, reduced weight, and ultimately a lower cost. Shipboard installation of MIDS on Ship requires an AS-4127A and an AS-4400 antenna set.**

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: **MS III**
 FINANCIAL PLAN: (\$ in millions)

	PY		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		TC		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																						
PROCUREMENT:																						
Kit Quantity																						
Installation Kits																						
Installation Kits Nonrecurring																						
Equipment							2	3.2													2	3.2
Equipment Nonrecurring																						
Engineering Change Orders																						
Data																						
Training Equipment																						
Production Support								0.2														0.2
Other (DSA)									0.1			0.0										0.2
Interim Contractor Support																						
Installation of Hardware*											2	1.7									2	1.7
PRIOR YR EQUIP																						
FY 00 EQUIP																						
FY 01 EQUIP																						
FY 02 EQUIP																						
FY 03 EQUIP																						
FY 04 EQUIP											2	1.7									2	1.7
FY 05 EQUIP																						
FY 06 EQUIP																						
FY 07 EQUIP																						
FY TC EQUIP																						
TOTAL INSTALLATION COST												1.7										1.7
TOTAL PROCUREMENT COST								3.4	0.1		1.7											5.2

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: 2 MOS PRODUCTION LEADTIME: 24 MOS

CONTRACT DATES: FY 2004: Mar-04 FY 2005:

DELIVERY DATES: FY 2004: Mar-06 FY 2005:

INSTALLATION SCHEDULE:

PY	FY 04				FY 05				FY 06			
	1	2	3	4	1	2	3	4	1	2	3	4
INPUT												
OUTPUT												

INSTALLATION SCHEDULE:

	FY 07				FY 08				FY 09				TC	TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4		
INPUT														2
OUTPUT														2

Notes/Comments
 1. Total Quantity meets inventory objective.
 2. MIDS on Ship and AN/UYQ-86 (C2P/C2P(R)/CDLMS) are installed as a ship set.

