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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0205604N: Tactical Data Links							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	526.025	62.367	118.818	197.538	-	197.538	147.272	120.670	72.504	48.664	Continuing	Continuing
2126: ATDLS Integration	525.425	50.666	81.912	64.536	-	64.536	68.825	59.299	42.066	38.032	Continuing	Continuing
3020: MIDS/JTRS	0.000	0.000	0.000	119.929	-	119.929	78.447	61.371	30.438	10.632	Continuing	Continuing
3341: Network Tactical Common Data Link	0.000	0.000	14.907	8.104	-	8.104	0.000	0.000	0.000	0.000	0.000	23.011
4022: Other Tactical Data Link Engineering	0.600	11.701	21.999	4.969	-	4.969	0.000	0.000	0.000	0.000	0.000	39.269
MDAP/MAIS Code(s): 554												
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
This Program Element develops and improves the Navy's Tactical Data Link (TDL) systems. It includes the Advanced Tactical Data Link Systems (ATDLS) Integration Programs, specifically Link 16 Network, Command and Control Processor (C2P) and Link Monitoring and Management Tool (LMMT) (formerly Air Defense System Integrator (ADSI)); and Network Tactical Common Data Link (NTCDL) Program which provides the ability to transmit/receive real-time Intelligence, Surveillance, and Reconnaissance (ISR) data simultaneously from multiple sources (surface, air, sub-surface), and exchange command and control information (voice, data, imagery, and Full Motion Video) across dissimilar Joint, Service, Coalition, and civil networks. The Program Element also develops and tests tactical data link capability to distribute other data types to new and existing platforms.												
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.												
The Multifunctional Information Distribution System (MIDS) program consists of two products, MIDS Low Volume Terminal (LVT) and MIDS Joint Tactical Radio System (JTRS). MIDS-LVT provides Link 16 capability to platforms that were unable to employ Joint Tactical Information Distribution System (JTIDS) due to space and weight constraints. The MIDS-LVT effort is multinational (U.S., France, Germany, Italy, and Spain) with joint service participation (Navy, Army, and Air Force). The Department of Defense (DoD) established the program to design, develop, and deliver low volume, lightweight tactical information system terminals for U.S. and Allied fighter aircraft, bombers, helicopters, ships, and ground sites. MIDS-LVT provides interoperability with North Atlantic Treaty Organization (NATO) users, significantly increasing force effectiveness and minimizing hostile actions and friend-on-friend engagements. The terminal design is smaller, lighter, highly reliable, interoperable with JTIDS Class 2 terminal, compatible with all the participants' designated platforms, affordable, and re-configurable to individual user needs and budgets. MIDS JTRS, designed as a Pre-Planned Product Improvement (P3I) and executed as an Engineering Change Proposal (ECP) to the production MIDS-LVT configuration, completed qualification in the first quarter of fiscal year 2010. It facilitated the Joint Program Executive Office (JPEO) JTRS incremental approach												

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>
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for fielding advanced JTRS transformational networking capability and transformed the MIDS-LVT into a 4-channel, Software Communications Architecture (SCA) compliant, Joint Tactical Radio. A form-fit-function replacement to MIDS-LVT, MIDS JTRS also adds three programmable 2 Megahertz (MHz) to 2 Gigahertz (GHz) channels capable of hosting the JTRS legacy and networking waveforms. In addition to the Link 16, Tactical Air Navigation, and voice functionality found in MIDS-LVT, MIDS JTRS has four channels and adds capabilities such as Link 16 Enhanced Throughput, four nets Concurrent Multi-Netting (CMN) with Concurrent Contention Receive (CCR) (CMN-4), Link 16 Frequency Re-mapping (FR), software programmability, and Cryptographic Modernization (CM). With CMN-4, MIDS JTRS also utilizes Tactical Targeting Network Technology for MIDS JTRS Naval Integrated Fire Control Counter Air and From the Air Advanced Tactical Data Links. These capabilities provide Joint Airborne Network-Tactical Edge functionality to run advanced mission applications in a cross-platform/cross-domain tactical network enterprise and the ability to simultaneously participate in four Link-16 Nets.

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	69.189	118.818	87.893	-	87.893
Current President's Budget	62.367	118.818	197.538	-	197.538
Total Adjustments	-6.822	0.000	109.645	-	109.645
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-5.092	0.000			
• SBIR/STTR Transfer	-1.730	0.000			
• Program Adjustments	0.000	0.000	-7.841	-	-7.841
• Rate/Misc Adjustments	0.000	0.000	117.486	-	117.486

Change Summary Explanation

Schedule:

ATDLS Integration:

Link 16 Network Increment II Dynamic Network Management (DNM) (2126): The following milestones/events have slipped 2 quarters due to the difficulty in obtaining Developmental Test (DT) and Operational Test (OT) assets: Joint Tactical Information Distribution System (JTIDS) DNM Developmental Test Readiness Review from FY2012Q4 to FY2013Q2; Multifunctional Information Distribution System (MIDS) on Ships (MOS) DNM Developmental Test Readiness Review from FY2012Q4 to FY2013Q2; MOS DNM Operational Test Readiness Review FY2012Q4 to FY2013Q3; MOS DNM Developmental Test from FY2013Q1 to FY2013Q3; and MOS DNM Operational Test from FY2013Q2 to FY2013Q4. The following milestones/events have slipped 1 quarter due to the difficulty in obtaining DT/OT assets: JTIDS DNM Operational Test Readiness Review (OTRR) from FY2013Q1 to FY2013Q2 and JTIDS DNM Developmental Test from FY2013Q1 to FY2013Q2. DNM Full Operational Capability (FOC) has slipped 4 quarters from FY2014Q4 to FY2015Q4 due to slip in MOS DT and OT with resultant need to wait for CNO scheduled availability for installation.

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<p>Link 16 Network Increment II Cryptographic Modernization (CM)/Frequency Remapping (FR) (2126): The following milestones/events have slipped 3 quarters due to delay in MIDS LVT Block Update 2 Schedule: MOS CM/FR Development (Ship) System Requirements Review (SRR)/Preliminary Design Review (PDR) from FY2013Q4 to FY2014Q3; and MOS CM/FR Development (Ship) Critical Design Review (CDR) from FY2014Q1 to FY2014Q4. New events added to reflect split between JTIDS CM/FR DT/OT and MOS CM/FR DT/OT due to MIDS LVT Block Update 2 schedule change: MOS CM/FR DTRR FY2016Q4; MOS CM/FR OTRR FY2017Q1; MOS CM/FR DT FY2017Q1; and MOS CM/FR OT FY2017Q2. The following milestones/events have slipped 1 quarter due to contract strategy revision specifying use of Multifunction Information Distribution System - Joint Tactical Radio System (MIDS-JTRS) Link 16 Terminal for integration: MOS Modernization (MOS Mod) System Functional Review (SFR) from FY2013Q3 to FY2013Q4; MOS Mod Test Readiness Review (TRR) from FY2014Q2 to FY2014Q3; MOS Mod Production Readiness Review (PRR) from FY2015Q1 to FY2015Q2; MOS Mod DTRR from FY2015Q2 to FY2015Q3; MOS Mod OTRR from FY2015Q3 to FY2015Q4; MOS Mod DT from FY2015Q3 to FY2015Q4; MOS Mod OT from FY2015Q4 to FY2016Q1; and MOS Mod Fielding Decision Review (FDR) from FY2016Q2 to FY2016Q3. The following milestones/events have slipped 2 quarter due to remaining aligned with C2P Tech Refresh: JTIDS/MOS CM/FR Shipboard Integration SRR from FY2013Q2 to FY2013Q4; JTIDS/MOS CM/FR Shipboard Integration PDR from FY2013Q4 to FY2014Q2; and JTIDS/MOS CM/FR Shipboard Integration CDR from FY2014Q2 to FY2014Q4.</p> <p>Command and Control Processor (C2P) (2126): C2P Technology Refresh milestones/events: Added Inc 3 IPR (FY 2018Q3). The following events slipped: Tech Refresh contract award delays caused SRR, PDR and CDR to slip 2 quarters: SRR (FY 2013Q2 to FY 2013Q4), PDR (FY 2013Q4 to FY 2014Q2), and CDR (FY 2014Q2 to FY 2014Q4). Link-22 milestones have slipped 2 quarters due to contract award delays: SRR (FY 2014Q1 to FY 2014Q3), PDR (FY 2014Q3 to FY 2015Q1), Milestone B (FY 2014Q4 to FY 2015Q2), CDR (FY 2015Q1 to FY 2015Q3).</p> <p>Link Monitoring and Management Tool (LMMT) Increment I (formerly Air Defense System Integrator (ADSI)) (2126) provides Tactical Data Links (TDL) Situational Awareness (SA). LMMT Increment II accelerates engineering efforts in FY 2014 leading to Initial Operational Capability (IOC) in FY 2016. LMMT Increment II provides TDL monitoring and management capabilities not included in Increment I.</p> <p>In accordance with the Acquisition Decision Memorandum dated 11 July 2012, the Joint Tactical Radio Systems Program of Records (JTRS PORs) transitioned to a Military Department-managed program. MIDS transitioned to the Navy under PE 0205604N beginning in FY14, but was formerly in PE 0604280N. Thus PU 3020 is new to PE 0205604N in this submission.</p>		

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0205604N: Tactical Data Links				PROJECT 2126: ATDLS Integration			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
2126: ATDLS Integration	525.425	50.666	81.912	64.536	-	64.536	68.825	59.299	42.066	38.032	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

This project develops and improves the Navy's Tactical Data Link (TDL) systems. It includes the Advanced Tactical Data Link Systems (ATDLS) Integration Programs, specifically Link 16 Network, Command and Control Processor (C2P) and Link Monitoring and Management Tool (LMMT) (formerly Air Defense System Integrator (ADSI)).

ATDLS Integration Program develops new and improved capabilities for Navy TDL users. The Navy Link 16 Network Increment II consists of Dynamic Network Management (DNM), Cryptographic Modernization (CM) and Frequency Remapping (FR). C2P Technology Refresh (TR) and C2P Interoperability will modernize legacy C2P processing components to address C2P component obsolescence and fleet interoperability issues. C2P is a critical component in the Aegis Ballistic Missile Defense (BMD) architecture. Modernization is a service life extension program required to sustain C2P support of Naval Integrated Air and Missile Defense (IAMD) and BMD capabilities. Link 22 development and integration into the C2P allows for standard data link communication with Coalition forces. LMMT Increment I (formerly ADSI) will upgrade commercial off-the-shelf hardware and modernize software operating systems. LMMT Increment II will improve TDL performance monitoring and management in support of the Integrated Air & Missile Defense (IAMD) and Ballistic Missile Defense (BMD) missions.

Link 16 Network Increment II funds the DNM capability and the implementation of Link 16 Network DNM on Navy ships, shore sites and airborne Link 16 terminals. DNM will provide automatic reconfiguration of Link 16 networks that respond instantly to emergent war fighter requirements. DNM consists of new terminal protocols that include Time Slot Reallocation and Combined Network Participation Groups. The DNM capabilities will be incorporated into Next Generation Command and Control Processor (NGC2P). Increment II also funds the following activities: (1) development and implementation of CM and FR mandates as a product improvement into Link 16 terminals and integration into shore sites, ship (NGC2P), and current Navy Joint Tactical Information Distribution System (JTIDS) airborne platforms; (2) Developmental Tests / Operational Tests (DT/OT) of Navy platform modifications; (3) implementation of new Link 16 information / data into the shipboard C2P to support Link 16 Network new and improved capabilities; and (4) provide product improvement for continued production capability (MOS Modernization) and extensibility to new Tactical Data Link capabilities of shipboard Link 16 Terminals.

FY 2014 Justification: Funding will provide for JTIDS CM/FR detailed design leading to Test Readiness Review (TRR) and testing of five Engineering and Manufacturing Development units to be used for National Security Agency (NSA) Cryptographic Certification and acceptance testing in FY 2014. Software modifications to the shipboard Command and Control Processor (C2P) will continue to support shipboard integration of the CM/FR capability. Similar software modifications to the E-2C host processing will be initiated through the E-2C Program Office (PMA-231) for the CM/FR capability. Funding will also provide for MOS CM/FR for requirements analysis of MIDS Block Update 2 documentation resulting in design work to support Preliminary Design Review (PDR) and Critical Design Review (CDR). JTIDS and

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<p>MOS CM/FR efforts are in support of NSA (NSA Policy 3-9) and Joint Chiefs of Staff mandates (Chairman of the Joint Chiefs of Staff Instruction Notice 6510.02), for the modernization of the cryptographic algorithm used in Link 16 terminals and the Department of Defense and the Department of Transportation Memorandum of Agreement (Regarding the 960-1215 MHz. Frequency Band, 31 December 2002) for the implementation of a capability to remap any 14 of the existing 51 frequencies in order to remain operable within the United States and its possessions. All Link 16 terminals are required to have this capability to support Link 16 Interoperability. To address continued production capability and extensibility to new Tactical Data Link capabilities, funding will provide for MOS Modernization (MOS Mod) design and development leading to a Test Readiness Review (TRR).</p> <p>Command and Control Processor (C2P) Technology Refresh (TR) funds a product improvement effort to the legacy C2P hardware components and allows C2P software to execute on modern processors, thereby extending its effective service life. Product improvement efforts will include C2P software development, hardware integration, update of the C2P development environment to promote sustainability and testing to include Developmental Test (DT)/Operational Test (OT) of the C2P TR baseline.</p> <p>C2P, Phase 3, Increment 3 is planned to include Link 22, which is a modernized replacement for Link-11, providing Beyond Line of Sight (BloS) tactical data communication system utilizing fixed frequency or frequency hopping techniques in the High Frequency (HF) (3-30 Megahertz (MHz)) and/or the Ultra High Frequency (UHF) (225-400 MHz) bands.</p> <p>FY 2014 Justification: Accomplish C2P TR PDR and CDR. Accomplish Inc 3 Link-22 Software Readiness Review (SRR), and continue efforts leading to Milestone B and CDR in FY 15.</p> <p>Link Monitoring and Management Tool (LMMT) (formerly Air Defense System Integrator (ADSI)) is a near real-time tactical command and control system delivered on commercial off-the-shelf hardware providing for multiple Tactical Data Link (TDL) interfaces, processing and display of TDL data including Link 16, and Joint Range Extension. LMMT is also capable of performing TDL network planning, monitoring, management, data forwarding between the TDLs and providing tactical data to the Global Command and Control System for establishing the Common Operational Picture.</p> <p>FY 2014 Justification: Funding will provide for detailed system design efforts including System Requirements Review and Preliminary Design Review (PDR) leading to a Critical Design Review (CDR) in FY 2014 and Operational Testing (OT) in FY 2015. Funding will also provide for software development and development of acquisition, interoperability, test, and logistics products to support testing and system fielding in FY 2016.</p>				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Title: Link 16 Network Increment II (Formerly ATDLS Integration) - Dynamic Network Management (DNM)		3.560	1.500	0.000
Articles:		0	0	
FY 2012 Accomplishments: Prepared for JTIDS DNM DT/FOT&E, MOS DNM DT/OT. Conducted JTIDS and MOS Developmental Test Readiness Review (DTRR). Continued Link 16 Network integrated logistics support.				
FY 2013 Plans:				

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Conduct JTIDS and MOS DTRR and Operational Test Readiness Review (OTRR). Conduct JTIDS DNM DT and FOT&E leading up to DNM Milestone C. Conduct MOS DNM DT and MOS DNM DT/OT. Achieve DNM Milestone C and DNM Initial Operational Capability (IOC). Correct critical DNM test deficiencies. Continue Link 16 Network integrated logistics support.				
Title: Link 16 Network Increment II (Formerly ATDLS Integration) - Cryptographic Modernization (CM) / Frequency Remapping (FR) Articles:		33.950 0	39.597 5	28.600 0
FY 2012 Accomplishments: Conducted JTIDS Preliminary Design Review (PDR) and detailed design of the JTIDS CM/FR. Continued Link 16 Network integrated logistics support and JTIDS airborne integration study.				
FY 2013 Plans: Conduct JTIDS CM/FR Critical Design Review (CDR) and initiate development of JTIDS CM/FR Engineering Manufacturing Development (EMD) units. Initiate development of MOS Modernization (MOS Mod) requirement analysis and design for continued product availability. Initiate JTIDS/MOS CM/FR shipboard integration. Continue Link 16 Network integrated logistics support.				
FY 2014 Plans: Conduct JTIDS CM/FR Test Readiness Review (TRR) and initiate contractor qualification and certification testing of JTIDS CM/FR on Engineering Manufacturing Development (EMD) unit. Conduct MOS CM/FR System Requirements Review SRR/PDR and CDR. Complete design and conduct MOS Mod Test Readiness Review (TRR). Continue JTIDS/MOS CM/FR shipboard integration effort with C2P and begin JTIDS CM/FR air integration effort with E-2C Program Office (PMA 231). Provide Link 16 Network integration logistics support.				
Title: Command and Control Processor (C2P) Articles:		13.156 0	37.615 0	30.336 0
FY 2012 Accomplishments: C2P Interoperability initial software build and developmental testing commenced the support of field testing during Trident Warrior in FY 2012. C2P Technology Refresh (TR) commenced development of Technology Refresh architecture requirements, integration with modernized data link cryptographic devices and software / hardware technology prototyping in support of FY 2013 design reviews.				
FY 2013 Plans: Support C2P Interoperability combat system certification. C2P TR funding will provide for requirements, design, initial development, and integration of C2P Technology Refresh baseline product improvements in support of SRR, leading to				

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014
Preliminary Design Review (PDR) and Critical Design Review (CDR), which will occur in FY 2014. Link-22 efforts commence in FY 2013 to support SRR in FY 2014.											
FY 2014 Plans: Accomplish C2P TR PDR and CDR, and commence C2P TR development. Complete Inc 3 Link-22 SRR, and continue efforts leading to Milestone B, PDR and CDR in FY 2015.											
Title: Link Monitoring and Management Tool (LMMT) (formerly Air Defense System Integrator (ADSI)) Articles:									0.000	1.000 0	3.400 0
FY 2013 Plans: LMMT Increment I (formerly ADSI) is a new start. Provide for the development of requirements, interoperability, test, and logistics products to support Developmental Test Readiness Review (DTRR) and Developmental Testing of commercial off-the-shelf hardware and upgraded software in FY 2013.											
FY 2014 Plans: Conduct LMMT Increment I FDR and LMMT Increment II Capability Drop 1 (CD 1) System Requirements Review (SRR) and combined Preliminary Design Review/ Critical Design Review (PDR/CDR). Commence LMMT Increment II software development.											
Title: Joint Aerial Layer Network (JALN) Articles:									0.000	2.200 0	2.200 0
FY 2013 Plans: Joint Aerial Layer Network (JALN) is a prototype development of a communications relay capability intended to improve and ensure adequate tactical network communications in a jammed environment.											
FY 2014 Plans: Continue development of a communications relay capability intended to improve and ensure adequate tactical network communications in a jammed environment.											
Accomplishments/Planned Programs Subtotals									50.666	81.912	64.536
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• OPN/2614: ATDLS	1.026	0.000	3.836		3.836	12.179	25.987	44.185	48.152	Continuing	Continuing
Remarks											

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<p><u>D. Acquisition Strategy</u></p> <p>The JTIDS Crypto Modernization (CM)/Frequency Remapping (FR) development and Low Rate Initial Production (LRIP) contract was awarded to Data Link Solutions (DLS). The associated production contract for JTIDS CM/FR will be competitively awarded after Operational Test. The MOS CM/FR contract will be awarded in FY14. Will award a MOS Mod product improvement contract for continued capability in FY13. Link 16 Terminal CM/FR shipboard integration will be accomplished through the C2P contract. Will competitively award a contract for C2P Tech Refresh and Link-22 development in FY 2013. The Link Monitoring and Management Tool (LMMT) Increment II capability will replace LMMT Increment I. LMMT Increment II will leverage existing Government off the Shelf (GOTS) software and Commercial off the Shelf (COTS) hardware. Increment II capabilities are implemented primarily in software and will be developed in capability drops (CDs). Existing GOTS software will be updated to incorporate network performance monitoring and management capabilities by SPAWAR System Center (SSC). Fielding decisions will be accomplished after CD DT/OT.</p> <p><u>E. Performance Metrics</u></p> <p>Link 16 Network DNM: Successfully achieve Milestone C. Successfully achieve Initial Operational Capability. Successfully conduct Full Deployment Decision Review. Successfully complete Operation Test Readiness Review. Successfully complete Developmental Test / Operational Test.</p> <p>Link 16 Network Cryptographic Modernization: Successful implementation of updated cryptographic algorithm as specified by National Security Agency (NSA Policy 3-9) Certification in Joint Tactical Information Distribution System (JTIDS), Multifunctional Information Distribution System (MIDS) on Ship (MOS), and MOS Modernization (MOS Mod) Link 16 terminals.</p> <p>Link 16 Network Frequency Remapping: Successful implementation of a Frequency Remapping capability as specified in Department of Defense/Department of Transportation Memorandum of Agreement regarding the 960-1215 MHz Frequency Band of 31 Dec 02 in Joint Tactical Information Distribution System (JTIDS), Multifunctional Information Distribution System (MIDS) on Ship (MOS) and MOS Modernization (MOS Mod) Link 16 Terminals.</p> <p>Link 16 Network Production Capability: Production Shipboard Link 16 Terminals available to meet new construction shipboard requirements.</p> <p>Command and Control Processor (C2P): Successfully achieve C2P Technology Refresh Fielding and thereby maintain operational availability.</p> <p>Link 22: Successfully achieve Link 22 implementation fielding, meeting operational requirement.</p> <p>LMMT: Successfully meet operational requirements and achieve Fielding Decision Reviews (FDR) for Increment I and Increment II.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
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Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ATDLS Product Development and Integration	Various	Various:Various	363.158	0.000		0.000		0.000		-		0.000	0.000	363.158	363.158
Link 16 Network Development (JTIDS)	C/CPIF	DLS (BAE/Rockwell):Wayne, NJ	26.388	16.012	Feb 2012	7.384	Mar 2013	5.200	Mar 2014	-		5.200	Continuing	Continuing	Continuing
Link 16 Network Development (MOS)	C/FFP	DLS (BAE/Rockwell):Wayne, NJ	0.000	0.034	Feb 2012	3.034	Dec 2012	4.400	Dec 2013	-		4.400	Continuing	Continuing	Continuing
Link 16 Network Development (MIDS LVT/ MIDS J)	WR	MIDS IPO:MIDS IPO	0.000	1.944	Aug 2012	6.060	Aug 2013	0.800	Aug 2014	-		0.800	Continuing	Continuing	Continuing
Link 16 Network E-2C Integration	WR	Unknown:Unknown	0.000	0.000		0.000		6.900	Oct 2013	-		6.900	Continuing	Continuing	Continuing
Link 16 Network JALN	WR	Unknown:Unknown	0.000	0.000		2.200	Mar 2013	2.200	Mar 2014	-		2.200	Continuing	Continuing	Continuing
Link 16 Network Development (MOS MOD)	C/FPIF	Unknown:Unknown	0.000	0.000		15.000	Jul 2013	0.000		-		0.000	Continuing	Continuing	Continuing
Link 16 Network Software	WR	SPAWARSYSCEN PAC:San Diego, CA	2.496	0.000		0.500	Oct 2012	2.200	Oct 2013	-		2.200	Continuing	Continuing	Continuing
Link 16 Network Integrated Logistics Support	C/CPFF	SeaPort-E:San Diego, CA	1.100	0.390	Oct 2011	0.390	Oct 2012	0.390	Oct 2013	-		0.390	Continuing	Continuing	Continuing
Link 16 Network Systems Engineering	WR	SPAWARSYSCEN PAC:San Diego, CA	35.991	2.781	Oct 2011	1.930	Oct 2012	1.512	Oct 2013	-		1.512	Continuing	Continuing	Continuing
Link 16 Network IV&V	WR	SPAWARSYSCEN PAC:San Diego, CA	0.000	1.426	Oct 2011	0.234	Oct 2012	0.300	Oct 2013	-		0.300	Continuing	Continuing	Continuing
C2P Development	C/IDIQ	Northrop Grumman:San Diego, CA	0.000	3.329	Mar 2012	15.481	May 2013	21.336	May 2014	-		21.336	Continuing	Continuing	Continuing
C2P Development (Interoperability)	WR	SPAWARSYSCEN PAC:San Diego, CA	0.000	3.899	Oct 2011	4.125	Oct 2012	0.000		-		0.000	Continuing	Continuing	Continuing
C2P Systems Engineering	WR	SPAWARSYSCEN PAC:San Diego, CA	0.000	2.441	Dec 2011	7.184	Oct 2012	6.000	Oct 2013	-		6.000	Continuing	Continuing	Continuing
LMMT Inc I Integrated Logistics Support	C/CPFF	SeaPort-E:San Diego, CA	0.000	0.000		0.250	Feb 2013	0.275	Oct 2013	-		0.275	Continuing	Continuing	Continuing

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APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE				PROJECT					
1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development						PE 0205604N: Tactical Data Links				2126: ATDLS Integration					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
LMMT Inc II (Development)	WR	SPAWARSYSCEN PAC:San Diego, CA	0.000	0.000		0.000		1.900	Oct 2013	-		1.900	Continuing	Continuing	Continuing
LMMT Inc II Systems Engineering	WR	SPAWARSYSCEN PAC:San Diego, CA	0.000	0.000		0.000		0.500	Oct 2013	-		0.500	Continuing	Continuing	Continuing
Subtotal			429.133	32.256		63.772		53.913		0.000		53.913			
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ATDLS Test and Evaluation	Various	Various:Various	65.171	0.000		0.000		0.000		-		0.000	0.000	65.171	65.171
Link 16 Network Developmental T&E	WR	SPAWARSYSCEN PAC:San Diego, CA	3.038	1.467	Oct 2011	0.252	Oct 2012	0.000	Oct 2013	-		0.000	Continuing	Continuing	Continuing
Link 16 Network Operational T&E	WR	SPAWARSYSCEN PAC:San Diego, CA	2.164	0.709	Oct 2011	0.397	Oct 2012	0.000	Oct 2013	-		0.000	Continuing	Continuing	Continuing
C2P T&E	WR	SPAWARSYSCEN PAC:San Diego, CA	0.000	1.771	Oct 2011	7.859	Oct 2012	0.000	Oct 2013	-		0.000	Continuing	Continuing	Continuing
LMMT (Inc I & II) Developmental T&E	WR	SPAWARSYSCEN PAC:San Diego, CA	0.000	0.000		0.750	Feb 2013	0.450	Oct 2013	-		0.450	Continuing	Continuing	Continuing
Subtotal			70.373	3.947		9.258		0.450		0.000		0.450			
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ATDLS System Engineering Support	Various	Various:Various	20.177	0.000		0.000		0.000		-		0.000	0.000	20.177	20.177
Link 16 Network Contractor Engineering Support	C/CPFF	SeaPort-E:San Diego, CA	3.409	6.124	Oct 2011	0.000		3.221	Oct 2013	-		3.221	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0205604N: Tactical Data Links				PROJECT 2126: ATDLS Integration					
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Link 16 Network Government Engineering Support	WR	SPAWARSYSCEN PAC:San Diego, CA	1.613	4.665	Oct 2011	5.916	Oct 2012	1.600	Oct 2013	-		1.600	Continuing	Continuing	Continuing
Link 16 Network Program Management Support	C/CPFF	SeaPort-E:San Diego, CA	0.700	1.958	Oct 2011	0.000		2.077	Oct 2013	-		2.077	Continuing	Continuing	Continuing
C2P Program Management Support	C/CPFF	SeaPort-E:San Diego, CA	0.000	1.716	Oct 2011	2.966	Oct 2012	3.000	Oct 2013	-		3.000	Continuing	Continuing	Continuing
Acquisition Workforce Fund	Various	Unknown:Unknown	0.020	0.000		0.000		0.000		-		0.000	0.000	0.020	0.020
LMMT Program Management Support	C/CPFF	SeaPort-E:San Diego, CA	0.000	0.000		0.000		0.275	Oct 2013	-		0.275	0.000	0.275	
Subtotal			25.919	14.463		8.882		10.173		0.000		10.173			
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			525.425	50.666		81.912		64.536		0.000		64.536			
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

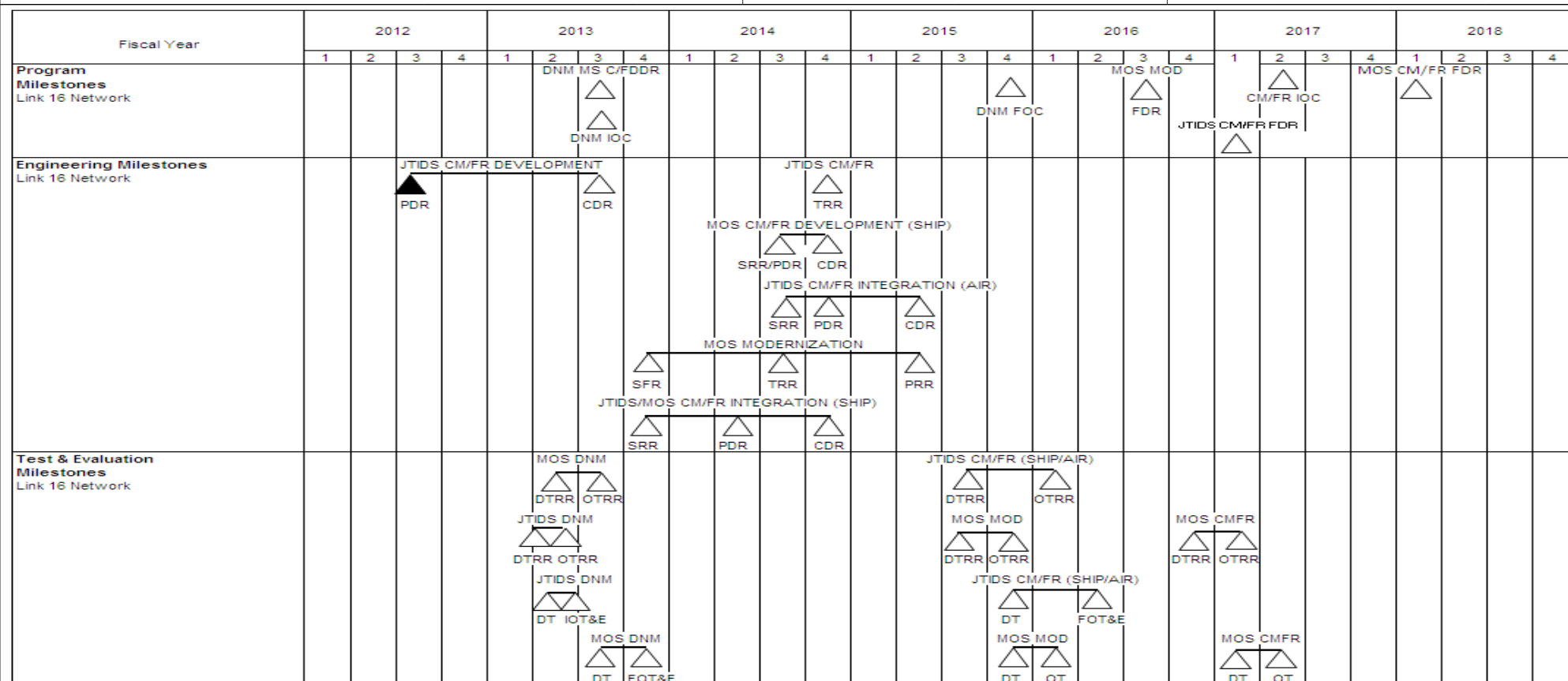
1319: Research, Development, Test & Evaluation, Navy
BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0205604N: Tactical Data Links

PROJECT

2126: ATDLS Integration



Legend:

CDR - Critical Design Review
CM - Cryptographic Modernization
DT - Developmental Test
DTRR - Developmental Test Readiness Review
DNM - Dynamic Network Management
FDR - Fielding Decision Review

FDDR - Full Dev. Decision Review
FOT&E - Follow-on Operational Test & Evaluation
FOC - Full Operating Capability
FR - Frequency Remapping
FRPDR - Full Rate Production Decision Review
IOC - Initial Operating Capability

JTIDS - Joint Tactical Information Distribution System
MOS - Multifunctional Info. Distribution Sys. (MIDS) On Ship (MOS)
MOS MOD - MOS Modernization
MS - Milestone
OT - Operational Test
OTRR - Operational Test Readiness Review

PDR - Preliminary Design Review
PRR - Production Readiness Review
SFR - System Functional Review
SRR - System Requirements Review
TRR - Test Readiness Review

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

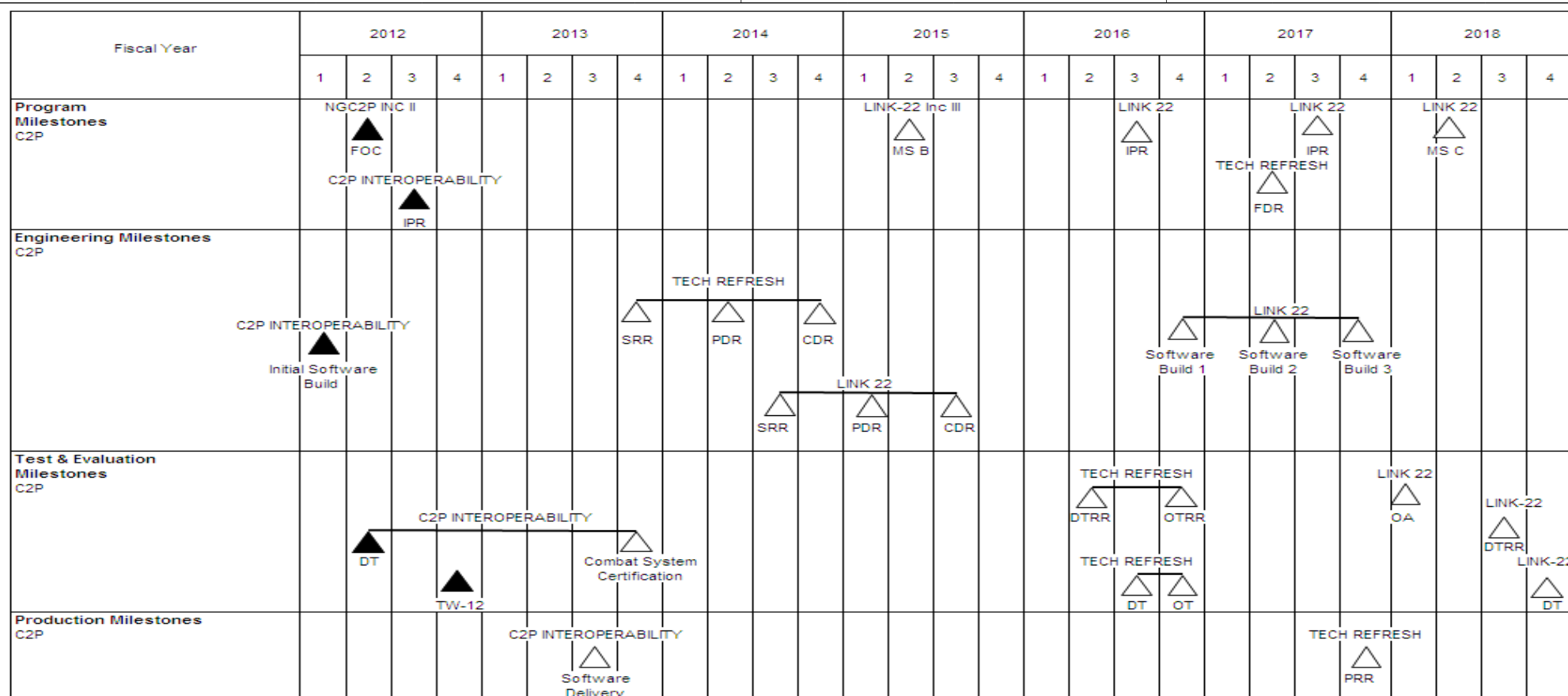
BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0205604N: Tactical Data Links

PROJECT

2126: ATDLs Integration



Legend:

C2P - Command and Control Processor
CDR - Critical Design Review
DT - Developmental Test
DTRR - Developmental Test Readiness Review

FDR - Fielding Decision Review
FOC - Full Operating Capability
IPR - In Progress Review
MS B - Milestone B

MS C - Milestone C
OA - Operational Assessment
OT - Operational Test
OTRR - Operational Test Readiness Review

PDR - Preliminary Design Review
PRR - Production Readiness Review
SRR - System Requirements Review
TW - Trident Warrior

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PE 0205604N: *Tactical Data Links*
Navy

R-1 Line #182

APPROPRIATION/BUDGET ACTIVITY

1319: *Research, Development, Test & Evaluation, Navy*

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0205604N: *Tactical Data Links*

	PROJECT
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2126: *ATDLS Integration*

Fiscal Year	2012				2013				2014				2015				2016				2017				2018			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Program Milestones LMMT																												

Legend:

CD - Capability Drop
CDR - Critical Design Review
DT - Developmental Test

FDR - Fielding Decision Review
FOC - Full Operational Capability
IOC - Initial Operating Capability

OT - Operational Test
PDR - Preliminary Design Review

SRR - System Requirements Review
TRR - Test Readiness Review

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>	PROJECT 2126: <i>ATDLS Integration</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2126				
C2P Interoperability Initial Software Build	1	2012	1	2012
NGC2P Increment II Full Operating Capability	2	2012	2	2012
C2P Interoperability Developmental Test	2	2012	2	2012
Link 16 Network JTIDS CM/FR Development Preliminary Design Review	3	2012	3	2012
C2P Interoperability In Progress Review	3	2012	3	2012
C2P Trident Warrior-12	4	2012	4	2012
Link 16 Network MOS DNM Developmental Test Readiness Review	2	2013	2	2013
Link 16 Network JTIDS DNM Developmental Test Readiness Review	2	2013	2	2013
Link 16 Network JTIDS DNM Operational Test Readiness Review	2	2013	2	2013
Link 16 Network JTIDS DNM Developmental Test	2	2013	2	2013
Link 16 Network JTIDS DNM Follow-on Operational Test & Evaluation	2	2013	2	2013
Link 16 Network DNM Milestone C/Full Development Decision Review	3	2013	3	2013
Link 16 Network DNM Initial Operating Capability	3	2013	3	2013
Link 16 Network JTIDS CM/FR Development Critical Design Review	3	2013	3	2013
Link 16 Network MOS DNM Operational Test Readiness Review	3	2013	3	2013
Link 16 Network MOS DNM Developmental Test	3	2013	3	2013
C2P Interoperability Software Delivery	3	2013	3	2013
Link 16 Network MOS MODERNIZATION System Functional Review	4	2013	4	2013
Link 16 Network JTIDS/MOS CM/FR Integration (Ship) System Requirements Review	4	2013	4	2013
Link 16 Network MOS DNM Follow-on Operational Test and Evaluation	4	2013	4	2013
C2P Tech Refresh System Requirements Review	4	2013	4	2013

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 0205604N: Tactical Data Links		PROJECT 2126: ATDLS Integration	
		Start		End	
Events by Sub Project		Quarter	Year	Quarter	Year
C2P Interoperability Combat System Certification		4	2013	4	2013
LMMT Inc I Test Readiness Review		4	2013	4	2013
LMMT Inc I Test		1	2014	1	2014
Link 16 Network JTIDS/MOS CM/FR Integration (Ship) Preliminary Design Review		2	2014	2	2014
C2P Tech Refresh Preliminary Design Review		2	2014	2	2014
LMMT Inc II CD I System Requirements Review		2	2014	2	2014
Link 16 Network MOS CM/FR Development (Ship) System Requirements review		3	2014	3	2014
Link 16 Network MOS CM/FR Development (Ship) Preliminary Design Review		3	2014	3	2014
Link 16 Network JTIDS CM/FR Integration (Air) Sysyem requirements Review		3	2014	3	2014
Link 16 Network MOS MODERNIZATION Test Readiness Review		3	2014	3	2014
C2P Link 22 System Requirements Review		3	2014	3	2014
LMMT Inc I Fielding Review		3	2014	3	2014
Link 16 Network JTIDS CM/FR Test Readiness Review		4	2014	4	2014
Link 16 Network MOS CM/FR Development (Ship) Critical Design Review		4	2014	4	2014
Link 16 Network JTIDS CM/FR Integration (Air) Preliminary Design Review		4	2014	4	2014
Link 16 Network JTIDS/MOS CM/FR Development (Ship) Critical Design Review		4	2014	4	2014
C2P Tech Refresh Critical Design Review		4	2014	4	2014
LMMT Inc II CD I Preliminary Design Review		4	2014	4	2014
LMMT Inc II CD I Critical Design Review		4	2014	4	2014
C2P Link 22 Preliminary Design Review		1	2015	1	2015
Link 16 Network JTIDS CM/FR Integration (Air) Critical Design Review		2	2015	2	2015
Link 16 Network MOS MODERNIZATION Production Readiness Review		2	2015	2	2015
C2P Link 22 Increment III Milestone B		2	2015	2	2015
Link 16 Network JTIDS CM/FR (Ship/Air) Developmental Test Readiness Review		3	2015	3	2015
Link 16 Network MOS MOD Developmental Test Readiness Review		3	2015	3	2015

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 0205604N: Tactical Data Links		PROJECT 2126: ATDLS Integration	
		Start		End	
Events by Sub Project		Quarter	Year	Quarter	Year
C2P Link 22 Critical Design Review		3	2015	3	2015
LMMT Inc II CD I Test Readiness Review		3	2015	3	2015
Link 16 Network DNM Full Operating Capability		4	2015	4	2015
Link 16 Network MOS MOD Operational Test Readiness Review		4	2015	4	2015
Link 16 Network JTIDS CM/FR (Ship/Air) Developmental Test		4	2015	4	2015
Link 16 Network MOS MOD Developmental Test		4	2015	4	2015
LMMT Inc II CD II System Requirements Review		4	2015	4	2015
LMMT Inc II CD I Development Test		4	2015	4	2015
LMMT Inc II CD I Operational Test		4	2015	4	2015
Link 16 Network JTIDS CM/FR (Ship/Air) Operational Test Readiness Review		1	2016	1	2016
Link 16 MOS MOD Operational Test		1	2016	1	2016
Link 16 Network JTIDS CM/FR (Ship/Air) Follow-On Operational Test and Evaluation		2	2016	2	2016
C2P Tech Refresh Developmental Test Readiness Review		2	2016	2	2016
LMMT Inc II CD I Initial Operating Capability		2	2016	2	2016
LMMT Inc II CD I Fielding Decision Review		2	2016	2	2016
LMMT Inc II CD II Prelimniary Design Review		2	2016	2	2016
LMMT Inc II CD II Critical Design Review		2	2016	2	2016
Link 16 MOS MOD Fielding Decision Review		3	2016	3	2016
C2P Link 22 In Progress Review I		3	2016	3	2016
C2P Tech Refresh Developmental Test		3	2016	3	2016
Link 16 Network MOS CM/FR Developmental Test Readiness Review		4	2016	4	2016
C2P Link 22 Software Build I		4	2016	4	2016
C2P Tech Refresh Operational Test Readiness Review		4	2016	4	2016
C2P Tech Refresh Operational Test		4	2016	4	2016
Link 16 Network JTIDS CM/FR Full Rate Production Decision Review		1	2017	1	2017

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 0205604N: Tactical Data Links		PROJECT 2126: ATDLS Integration
		Start		End
Events by Sub Project		Quarter	Year	Quarter Year
Link 16 Network MOS CM/FR Operational Test Readiness Review		1	2017	1 2017
Link 16 Network MOS CM/FR Developmental Test		1	2017	1 2017
LMMT Inc II CD II Test Readiness Review		1	2017	1 2017
Link 16 Network JTIDS CM/FR Initial Operating Capability		2	2017	2 2017
Link 16 Network MOS CM/FR Operational Test		2	2017	2 2017
C2P Tech Refresh Fielding Decision Review		2	2017	2 2017
C2P Link 22 Software Build II		2	2017	2 2017
LMMT Inc II CD II Developmental Test		2	2017	2 2017
LMMT Inc II CD II Operational Test		2	2017	2 2017
C2P Link 22 In Progress Review		3	2017	3 2017
C2P Link 22 Software Build III		4	2017	4 2017
C2P Tech Refresh Production Readiness Review		4	2017	4 2017
LMMT Inc II CD II Fielding Decision Review		4	2017	4 2017
Link 16 Network MOS CM/FR Fielding Decision Review		1	2018	1 2018
C2P Link 22 Operational Assessment		1	2018	1 2018
C2P Link 22 Milestone C		2	2018	2 2018
C2P Link 22 Developmental Test Readiness Review		3	2018	3 2018
C2P Link 22 Developmental Test		4	2018	4 2018
LMMT Inc II Full Operational Capability		4	2018	4 2018

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy									DATE: April 2013				
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0205604N: Tactical Data Links				PROJECT 3020: MIDS/JTRS				
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
3020: MIDS/JTRS	0.000	0.000	0.000	119.929	-	119.929	78.447	61.371	30.438	10.632	Continuing	Continuing	
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0			
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012													
## The FY 2014 OCO Request will be submitted at a later date													
Note													
In accordance with the Acquisition Decision Memorandum dated 11 July 2012, the Joint Tactical Radio Systems Program of Records (JTRS PORs) transitioned to a Military Department-managed program. MIDS transitioned to the Navy under PE 0205604N but was formerly in PE 0604280N.													
A. Mission Description and Budget Item Justification													
The Multifunctional Information Distribution System (MIDS) program consists of two products, MIDS Low Volume Terminal (LVT) and MIDS Joint Tactical Radio System (JTRS). MIDS-LVT provides Link 16 capability to platforms that were unable to employ Joint Tactical Information Distribution System due to space and weight constraints. The MIDS-LVT effort is multinational (U.S., France, Germany, Italy, and Spain) with joint service participation (Navy, Army, and Air Force). The Department of Defense (DoD) established the program to design, develop, and deliver low volume, lightweight tactical information system terminals for U.S. and Allied fighter aircraft, bombers, helicopters, ships, and ground sites. MIDS-LVT provides interoperability with North Atlantic Treaty Organization (NATO) users, significantly increasing force effectiveness and minimizing hostile actions and friend-on-friend engagements. The terminal design is smaller, lighter, highly reliable, interoperable with JTIDS Class 2 terminal, compatible with all the participants' designated platforms, affordable, and re-configurable to individual user needs and budgets. MIDS JTRS, designed as a Pre-Planned Product Improvement (P3I) and executed as an Engineering Change Proposal (ECP) to the production MIDS-LVT configuration, completed qualification in the first quarter of fiscal year 2010. It facilitated the Joint Program Executive Office (JPEO) JTRS incremental approach for fielding advanced JTRS transformational networking capability and transformed the MIDS-LVT into a 4-channel, Software Communications Architecture (SCA) compliant, Joint Tactical Radio. A form-fit-function replacement to MIDS-LVT, MIDS JTRS also adds three programmable 2 Megahertz (MHz) to 2 Gigahertz (GHz) channels capable of hosting the JTRS legacy and networking waveforms. In addition to the Link 16, Tactical Air Navigation, and voice functionality found in MIDS-LVT, MIDS JTRS has four channels and adds capabilities such as Link 16 Enhanced Throughput, four nets Concurrent Multi-Netting (CMN) with Concurrent Contention Receive (CCR) (CMN-4), Link 16 Frequency Re-mapping, software programmability, and Cryptographic Modernization. With CMN-4, MIDS JTRS also utilizes Tactical Targeting Network Technology for MIDS JTRS Naval Integrated Fire Control Counter Air and From the Air Advanced Tactical Data Links. These capabilities provide Joint Airborne Network-Tactical Edge functionality to run advanced mission applications in a cross-platform/cross-domain tactical network enterprise and the ability to simultaneously participate in four Link-16 Nets.													
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014		
Title: MIDS									0.000	0.000	119.929		
									Articles:				
FY 2014 Plans:													

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>		R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>	PROJECT 3020: <i>MIDS/JTRS</i>
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013
Continue the development and implementation of four nets CNM-4 with CCR for MIDS JTRS. Conduct Critical Design Review and Technical Readiness Review. Begin hardware and software terminal integration. Begin Contractor First Article Qualification Test and Information Assurance (IA) Certification for the CMN-4 MIDS JTRS Terminal.			
Award full development effort for Tactical Targeting Network Technology (TTNT) for MIDS JTRS Naval Integrated Fire Control Counter Air and From the Air Advanced Tactical Data Links. Conduct Preliminary Design Review (PDR) and Initial Baseline Review. Continue TTNT waveform development to incorporate version 7.0.4 into the detailed hardware design at PDR.			
Continue the Crypto Modernization (CM)/Block Upgrade 2 capability and enhancement efforts for MIDS-LVT to include finalizing the detailed technical and interface information in the Item Performance Specification and the Interface Control Document. Define the performance and interface requirements and provide engineering analysis to finalize interface with the Signal Message Processor (SMP) design. Continue Link 16 CM efforts to replace the current Communications Security/Transmission Security on the SMP to extend the operational lifetime of currently fielded MIDS-LVT terminals.			
Continue MIDS Modernization efforts to include Small Business Innovation Research transition opportunities. Continue MIDS systems engineering, Communication Security, IA and program management support.			
Accomplishments/Planned Programs Subtotals		0.000	0.000
		119.929	
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
MIDS JTRS development was initiated as a major modification to the MIDS-LVT using an Engineering Change Proposal to the existing production contracts. Development efforts included the Phase 2B Core terminal. The U.S. prime contractors from the MIDS-LVT program, Data Link Solutions (DLS) and ViaSat Inc., cooperatively designed and developed the Core terminal. Each prime contractor built and qualified Production Verification Terminals. The U.S. implemented a continuous competition strategy between DLS and ViaSat that will be maintained throughout the MIDS JTRS production phase. This strategy was successfully used on MIDS-LVT production. The FY14 budget supports development and implementation of Crypto Modernization, Frequency Remapping, and Enhanced Throughput capabilities for the MIDS-LVT terminal as well as the development to incorporate Concurrent Multi-Netting-4 (CMN-4) and Tactical Targeting Network Technology (TTNT) into MIDS JTRS. MIDS JTRS also takes over the responsibility of developing the TTNT waveform.			

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>	PROJECT 3020: <i>MIDS/JTRS</i>
E. Performance Metrics <p>The MIDS-LVT and MIDS JTRS programs are employing mature, software-defined radio technologies and developing hundreds of thousands of lines of code. These software metrics are used to quantify the quality and progress of each software product's development over time. MIDS employs earned value metrics to monitor contract performance on it's prime development contracts, as required.</p> <p>MIDS-LVT: The 11 performance measures are: L16 Waveform Compatibility, L16 Message Standards, L16 IER; Interoperability, L16 Coded Error Message Probability, Weight/Volume, L16 JAM Resistance, L16 Voice Channels, L16 Communication Range Data, L16 Communications Range Voice, L16 Relay.</p> <p>MIDS JTRS: The 15 performance measures are: L16 Waveform Compatibility, L16 Waveform Standards, L16 Coded Error Message Probability, L16 Jamming Resistance, L16 Communication Range-Data, L16 Communications Range-Voice, L16 Relay, Start-up (Terminal Single Channel), Operational Communications - Passive Synchronization, Operational Communications - Automatic Message Acknowledgement, Operational Communications - Multi-Net, Operational Communications, Crypto Control, Navigation.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE				PROJECT					
1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development						PE 0205604N: Tactical Data Links				3020: MIDS/JTRS					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
MIDS JTRS CMN-4 Development	C/CPFF	DLS:Cedar Rapids, IA	0.000	0.000		0.000		0.608	Feb 2014	-		0.608	0.000	0.608	
MIDS JTRS CMN-4 Development	C/CPFF	ViaSat:San Diego, CA	0.000	0.000		0.000		0.609	Feb 2014	-		0.609	0.000	0.609	
MIDS JTRS NIFCA TTNT Full Development	C/CPFF	DLS:Cedar Rapids, IA	0.000	0.000		0.000		25.250	Dec 2013	-		25.250	Continuing	Continuing	Continuing
MIDS JTRS NIFCA TTNT Full Development	C/CPFF	ViaSat:San Diego, CA	0.000	0.000		0.000		25.250	Dec 2013	-		25.250	Continuing	Continuing	Continuing
MIDS JTRS NIFCA TTNT Waveform Development	C/CPFF	Rockwell Collins:Wayne, NJ	0.000	0.000		0.000		20.200	Feb 2014	-		20.200	Continuing	Continuing	Continuing
MIDS-LVT BU2 Full Development	C/CPFF	DLS:Cedar Rapids, IA	0.000	0.000		0.000		15.831	Jan 2014	-		15.831	Continuing	Continuing	Continuing
MIDS-LVT BU2 Full Development	C/CPFF	ViaSat:San Diego, CA	0.000	0.000		0.000		15.831	Jan 2014	-		15.831	Continuing	Continuing	Continuing
MIDS-LVT BU2 Software Full Development	C/CPFF	BAE:Wayne, NJ	0.000	0.000		0.000		12.400	Jan 2014	-		12.400	Continuing	Continuing	Continuing
Subtotal			0.000	0.000		0.000		115.979		0.000		115.979			
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering Support	MIPR	MITRE:Bedford, MA	0.000	0.000		0.000		0.792	Oct 2013	-		0.792	0.000	0.792	
Government Engineering Support TTNT	WR	SSC:San Diego, CA	0.000	0.000		0.000		0.634	Oct 2013	-		0.634	0.000	0.634	
Govt Engineering Support BU2	WR	SSC:San Diego, CA	0.000	0.000		0.000		0.619	Oct 2013	-		0.619	0.000	0.619	
IA Cert Support	MIPR	NSA:Fort George Meade, MD	0.000	0.000		0.000		0.191	Oct 2013	-		0.191	0.000	0.191	
Contractor Eng Support	TBD	TBD/Source Selection:TBD	0.000	0.000		0.000		0.906	Feb 2014	-		0.906	0.000	0.906	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0205604N: Tactical Data Links				PROJECT 3020: MIDS/JTRS					
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Travel	WR	Travel:Pax River, MD /DC	0.000	0.000		0.000		0.035	Oct 2013	-		0.035	0.000	0.035	
Govt Program Support NIFCA	WR	NAVAIR:Pax River, MD	0.000	0.000		0.000		0.773	Oct 2013	-		0.773	0.000	0.773	
Subtotal			0.000	0.000		0.000		3.950		0.000		3.950	0.000	3.950	
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	0.000		0.000		119.929		0.000		119.929			
Remarks															
In accordance with the ADM dated 11 July 2012, the Joint Tactical Radio Systems Program of Records (JTRS PORs) transitioned to a Military Department-managed program. MIDS transitioned to the Navy under PE 0205604N but was formerly in PE 0604280N.															

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

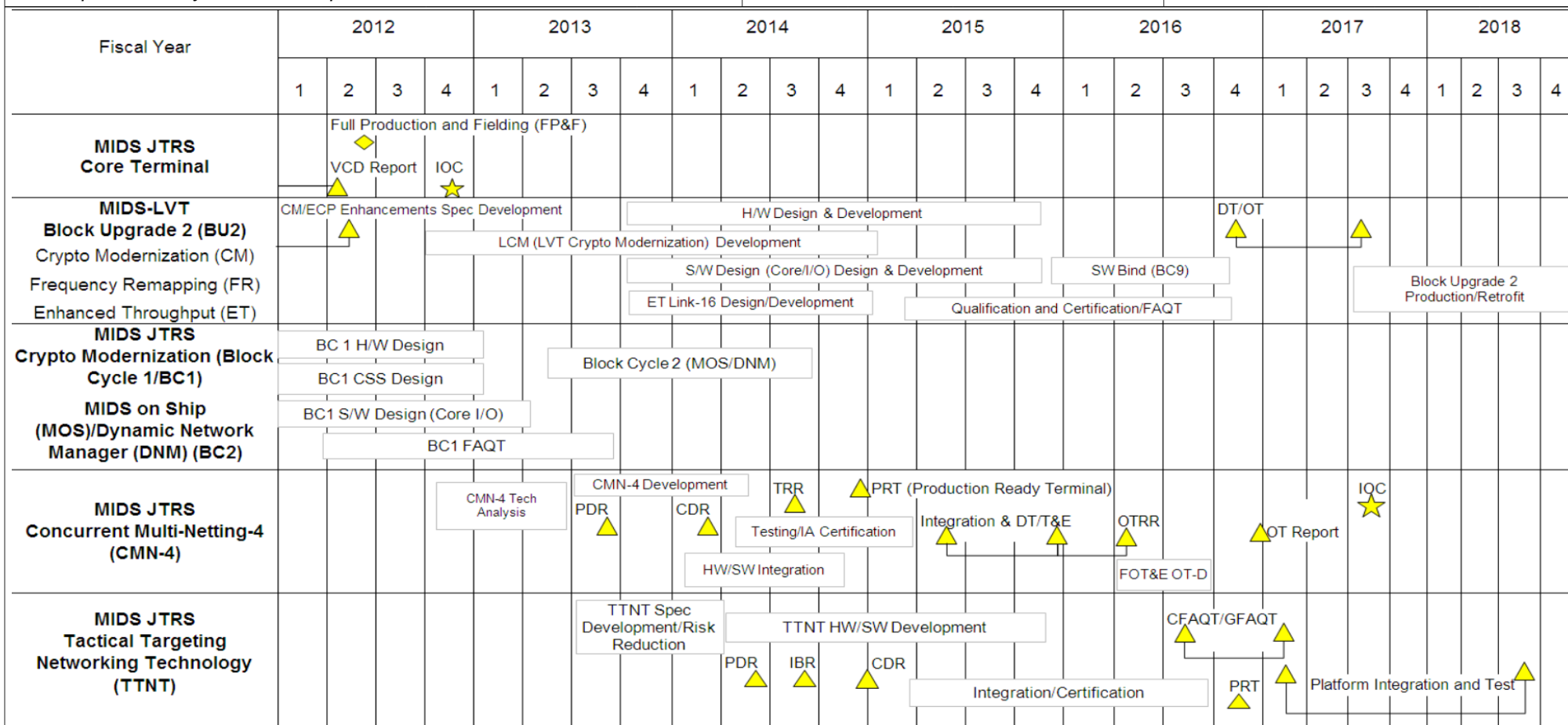
BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0205604N: Tactical Data Links

PROJECT

3020: MIDS/JTRS



Notes:

In accordance with the ADM dated 11 July 2012, the Joint Tactical Radio Systems Program of Records (JTRS PORs) transitioned to a Military Department-managed program. MIDS transitioned to the Navy under PE 0205604N for FY14-out but was formerly in PE 0604280N.

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>	PROJECT 3020: <i>MIDS/JTRS</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
MIDS				
MIDS JTRS Core Terminal: VCD Report	2	2012	2	2012
MIDS JTRS Core Terminal: Full Production Fielding Decision (FPF)	2	2012	2	2012
MIDS JTRS Core Terminal: IOC (Initial Operational Capability)	4	2012	4	2012
MIDS-LVT Block Upgrade 2 (BU2/CM/FR/ET): CM/ECP Enhancements Spec Development	2	2012	2	2012
MIDS-LVT Block Upgrade 2 (BU2/CM/FR/ET): LCM (LVT Crypto Modernizatoion) Development	4	2012	1	2015
MIDS-LVT Block Upgrade 2 (BU2/CM/FR/ET): Hardware (HW) Design and Development	4	2013	4	2015
MIDS-LVT Block Upgrade 2 (BU2/CM/FR/ET): Software (SW) Design and Development	4	2013	4	2015
MIDS-LVT Block Upgrade 2 (BU2/CM/FR/ET): Enhanced Throughput (ET) Link-16 Design and Development	4	2013	1	2015
MIDS-LVT Block Upgrade 2 (BU2/CM/FR/ET): Qualification and Certification/FAQT	1	2015	4	2016
MIDS-LVT Block Upgrade 2 (BU2/CM/FR/ET): Software Bind (SW)	4	2015	4	2016
MIDS-LVT Block Upgrade 2 (BU2/CM/FR/ET): Developmental Test/Operational Test (DT/OT)	4	2016	3	2017
MIDS-LVT Block Upgrade 2 (BU2/CM/FR/ET): Block Upgrade 2 Production/Retrofit	3	2017	4	2018
MIDS JTRS Crypto Modernization (Block Cycle 1/BC1): BC1 Hardware Design	1	2012	1	2013
MIDS JTRS Crypto Modernization (Block Cycle 1/BC1): BC1 CSS Design	1	2012	1	2013
MIDS JTRS Crypto Modernization (Block Cycle 1/BC1): BC1 Software Design (Core I/ O)	1	2012	2	2013
MIDS JTRS Crypto Modernization (Block Cycle 1/BC1): BC1 FAQT	1	2012	3	2013

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>		R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>		PROJECT 3020: <i>MIDS/JTRS</i>
		Start		End
Events by Sub Project		Quarter	Year	Quarter
				Year
MIDS JTRS MIDS on Ship (MOS)/Dynamic Network Manager (DNM) (BC2): Block Cycle 2		2	2013	3 2014
MIDS JTRS Concurrent Multi-Netting-4 (CMN-4): CMN-4 Tech Analysis		4	2012	2 2013
MIDS JTRS Concurrent Multi-Netting-4 (CMN-4): CMN-4 Development		3	2013	2 2014
MIDS JTRS Concurrent Multi-Netting-4 (CMN-4): Preliminary Design Review		3	2013	3 2013
MIDS JTRS Concurrent Multi-Netting-4 (CMN-4): Critical Design Review		1	2014	1 2014
MIDS JTRS Concurrent Multi-Netting-4 (CMN-4): Hardware/Software Integration		1	2014	4 2014
MIDS JTRS Concurrent Multi-Netting-4 (CMN-4): Testing/IA Certification		2	2014	1 2015
MIDS JTRS Concurrent Multi-Netting-4 (CMN-4): Technical Readiness Review		3	2014	3 2014
MIDS JTRS Concurrent Multi-Netting-4 (CMN-4): Production Ready Terminal		4	2014	4 2014
MIDS JTRS Concurrent Multi-Netting-4 (CMN-4): Integration and DT/T&E		2	2015	4 2015
MIDS JTRS Concurrent Multi-Netting-4 (CMN-4): DT&T&E to OTRR		4	2015	2 2016
MIDS JTRS Concurrent Multi-Netting-4 (CMN-4): Full Operational Test and Eval OT-D		2	2016	3 2016
MIDS JTRS Concurrent Multi-Netting-4 (CMN-4): OT Report		4	2016	4 2016
MIDS JTRS Concurrent Multi-Netting-4 (CMN-4): IOC (Initial Operational Capability)		3	2017	3 2017
MIDS JTRS Tactical Targeting Networking Technology (TTNT): TTNT Spec Development/Risk Reduction		3	2013	2 2014
MIDS JTRS Tactical Targeting Networking Technology (TTNT): TTNT Hardware/Software Development		2	2014	4 2015
MIDS JTRS Tactical Targeting Networking Technology (TTNT): Preliminary Design Review		2	2014	2 2014
MIDS JTRS Tactical Targeting Networking Technology (TTNT): Initial Baseline Review		3	2014	3 2014
MIDS JTRS Tactical Targeting Networking Technology (TTNT): Critical Design Review		4	2014	4 2014
MIDS JTRS Tactical Targeting Networking Technology (TTNT): Integration/Certification		1	2015	3 2016
MIDS JTRS Tactical Targeting Networking Technology (TTNT): CFAQT/GFAQT		3	2016	1 2017

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>		R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>		PROJECT 3020: <i>MIDS/JTRS</i>
		Start		End
Events by Sub Project		Quarter	Year	Quarter
MIDS JTRS Tactical Targeting Networking Technology (TTNT): Production Ready Terminal		4	2016	4
MIDS JTRS Tactical Targeting Networking Technology (TTNT): Platform Integration and Test		1	2017	3

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0205604N: Tactical Data Links				PROJECT 3341: Network Tactical Common Data Link			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
3341: Network Tactical Common Data Link	0.000	0.000	14.907	8.104	-	8.104	0.000	0.000	0.000	0.000	0.000	23.011
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
Network Tactical Common Data Link (NTCDL) provides the ability to transmit/receive real-time Intelligence, Surveillance, and Reconnaissance (ISR) data simultaneously from multiple sources (air, surface, sub-surface, portable), and exchange command and control information (voice, data, imagery, and Full Motion Video) across dissimilar Joint, Service, Coalition, and civil networks. NTCDL provides warfighters with the capability to support multiple, simultaneous, networked operations with currently fielded CDL-equipped platforms (e.g. F/A-18, P-3, and MH-60R), in addition to next generation manned and unmanned platforms (e.g., P-8, Broad Area Maritime Surveillance (BAMS), UCLASS, and Fire Scout). NTCDL is a tiered capability (air, surface, sub-surface, portable) providing a modular, scalable, multiple-link networked communications. NTCDL benefits the fleet by providing horizon extension for line-of-sight sensor systems for use in time critical strike missions. NTCDL supports Anti-Access/Area of Denial (A2AD) through its relay capability, and supports Tasking Collection Processing Exploitation Dissemination (TCPED) through its ISR networking capability. Additionally, NTCDL supports Humanitarian Assistance/Disaster Relief (HA/DR) efforts through its ability to share ISR data across dissimilar Joint, Service, Coalition, and Civil organizations.												
FY14: Funding enables continued program acquisition; engineering, manufacturing and development activities in support of NTCDL surface CDL variant. The threshold requirement is for five (5) simultaneous off-ship CDL missions, with limited topside footprint as a design priority.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: Network Tactical Common Data Link (NTCDL) Articles: Description: Overall program efforts include investigation of emerging technologies through study, development and associated testing for feasibility of program insertion. FY 2013 Plans: FY13 funds will be used for Acquisition documentation (Capability Development Document (CDD), System Performance Specification (SPS), Test and Evaluation Master Plan (TEMP), Integrated Master Schedule (IMS), etc). Also, contract to design/develop an NTCDL system appropriate to support Aircraft Carrier (CVN) CDL operations. FY 2014 Plans:									0.000	14.907	8.104	
										0	1	

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy								DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>					R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>			PROJECT 3341: <i>Network Tactical Common Data Link</i>			

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2012	FY 2013	FY 2014
FY14 funding will be used to continue program acquisition, and engineering, manufacturing and development activities, as well as conduct critical design reviews and testing in support of the NTCDL surface CDL variant.										
Accomplishments/Planned Programs Subtotals								0.000	14.907	8.104

C. Other Program Funding Summary (\$ in Millions)

Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• OPN/2950: <i>Network Tactical Common Data Link</i> .	0.000	0.000	0.000		0.000	27.299	19.400	6.999	7.125	Continuing	Continuing

Remarks

D. Acquisition Strategy

NTCDL will utilize the evolutionary acquisition approach for each defined tiers (air, surface, sub-surface, portable).

E. Performance Metrics

Joint Interoperability Test Command (JITC) certification of CDL waveforms

Number of simultaneous links: Threshold (T)= 5, Objective (O) = 12

Data rate - Minimum one 274 Megabit per second (Mbps) link (T), additional links must be 45Mbps or greater

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0205604N: Tactical Data Links						PROJECT 3341: Network Tactical Common Data Link			
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
NTCDL Product Development	C/CPIF	UNKNOWN:UNKNOWN	0.000	0.000		12.004	Sep 2013	6.907	Oct 2013	-		6.907	0.000	18.911	
Subtotal			0.000	0.000		12.004		6.907		0.000		6.907	0.000	18.911	
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
NTCDL Systems Engineering	WR	SPAWARSSYCTR:San Diego, CA	0.000	0.000		0.700	Apr 2013	0.500	Oct 2013	-		0.500	0.000	1.200	
Subtotal			0.000	0.000		0.700		0.500		0.000		0.500	0.000	1.200	
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
NTCDL Test and Evaluation	WR	SPAWARSSYCTR:San Diego, CA	0.000	0.000		1.000	Apr 2013	0.050	Oct 2013	-		0.050	0.000	1.050	
NTCDL Test and Review	MIPR	JITC:Fort Huachuca, AZ	0.000	0.000		0.200	Apr 2013	0.050	Oct 2013	-		0.050	0.000	0.250	
NTCDL Waveform certification	MIPR	COMOPTEVFOR:Norfolk, VA	0.000	0.000		0.200	Apr 2013	0.050	Oct 2013	-		0.050	0.000	0.250	
Subtotal			0.000	0.000		1.400		0.150		0.000		0.150	0.000	1.550	
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management	WR	SPAWARSSYCTR:San Diego, CA	0.000	0.000		0.500	Apr 2013	0.200	Oct 2013	-		0.200	0.000	0.700	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>						R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>				PROJECT 3341: <i>Network Tactical Common Data Link</i>					

Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	C/CPFF	SEAPORT-E:San Diego, CA	0.000	0.000		0.303	Apr 2013	0.347	Oct 2013	-		0.347	0.000	0.650	
Subtotal			0.000	0.000		0.803		0.547		0.000		0.547	0.000	1.350	

	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.000	14.907	8.104	0.000	8.104	0.000	23.011	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

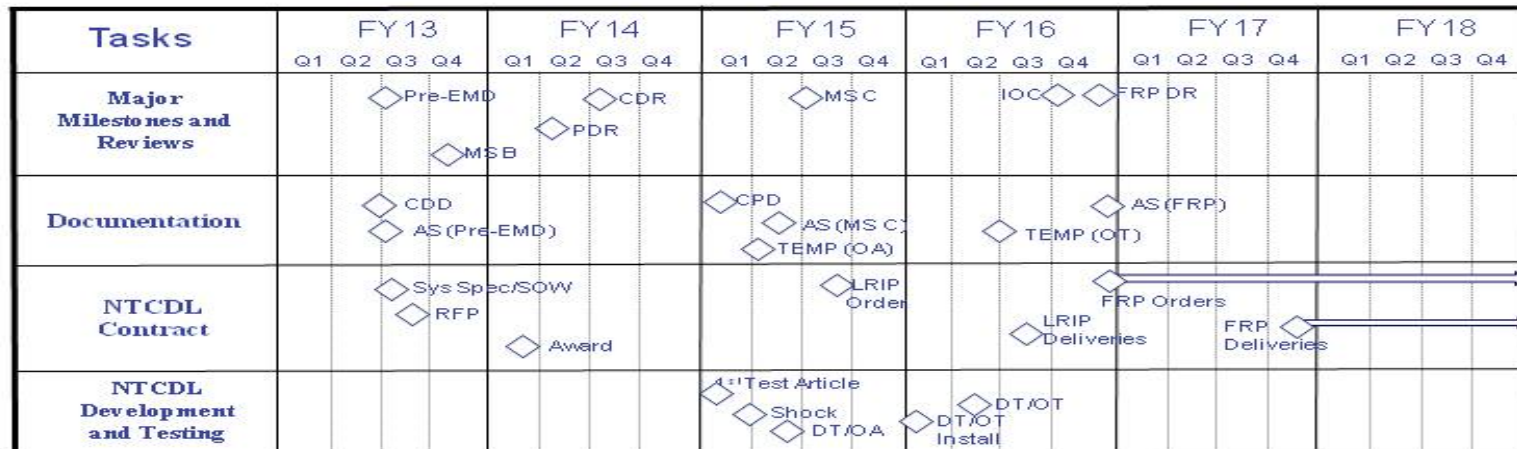
1319: Research, Development, Test & Evaluation, Navy
BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0205604N: Tactical Data Links

PROJECT

3341: Network Tactical Common Data Link



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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>	PROJECT 3341: <i>Network Tactical Common Data Link</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3341				
NTCDL- Capabilities Development Document (CDD)	3	2013	3	2013
NTCDL- System Spec/Statement of Work	3	2013	4	2013
NTCDL- Acquisition Strategy (Pre-EMD)	3	2013	3	2013
NTCDL- Pre-Engineering and Manufacturing Development (EMD)	3	2013	3	2013
NTCDL- Request for Proposal (Contract)	3	2013	3	2013
NTCDL- Milestone B	4	2013	4	2013
NTCDL- Contract Award	1	2014	1	2014
NTCDL- Preliminary Design Review (PDR)	2	2013	2	2014
NTCDL- Critical Design Review (CDR)	3	2014	3	2014
NTCDL- Capability Production Document (CPD)	1	2015	1	2015
NTCDL- First Test Article	1	2015	1	2015
NTCDL- Shock Testing	2	2015	2	2015
NTCDL- Test and Evaluation Master Plan (TEMP) (OA)	2	2015	2	2015
NTCDL- Development Test (DT) and Operational Assessment (OA)	2	2015	2	2015
NTCDL- Acquisition Strategy (MS C)	2	2015	2	2015
NTCDL- Milestone C	3	2015	3	2015
NTCDL- Low Rate Initial Production (LRIP) Contract Award	3	2015	3	2015
NTCDL- LRIP Deliveries	3	2016	4	2016
NTCDL- Developmental Test/Operational Test Installs	1	2016	1	2016
NTCDL- Test and Evaluation Master Plan (TEMP) (OT)	2	2016	2	2016
NTCDL- Development Test (DT) and Operational Test (OT)	2	2016	2	2016

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>		R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>		PROJECT 3341: <i>Network Tactical Common Data Link</i>
		Start		End
Events by Sub Project		Quarter	Year	Quarter
NTCDL- Initial Operating Capability (IOC)		4	2016	4
NTCDL- Acquisition Strategy (FRP)		4	2016	4
NTCDL-Full Rate Production Descision Review (FPR-DR)		4	2016	4
NTCDL- Full Rate Production Contract Award		4	2016	4

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>					R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>				PROJECT 4022: <i>Other Tactical Data Link Engineering</i>			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013[#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
4022: <i>Other Tactical Data Link Engineering</i>	0.600	11.701	21.999	4.969	-	4.969	0.000	0.000	0.000	0.000	0.000	39.269
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		
[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012 ^{##} The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
See Classified Annex for details of this project.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
Title: Other Tactical Data Link Engineering										11.701	21.999	4.969
Articles:										0	0	0
FY 2012 Accomplishments: See Classified Annex for details of this project. FY 2013 Plans: See Classified Annex for details of this project. FY 2014 Plans: See Classified Annex for details of this project.												
Accomplishments/Planned Programs Subtotals										11.701	21.999	4.969
C. Other Program Funding Summary (\$ in Millions)												
N/A												
Remarks												
D. Acquisition Strategy												
See Classified Annex for details of this project.												
E. Performance Metrics												
See Classified Annex for details of this project.												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE				PROJECT					
1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development						PE 0205604N: Tactical Data Links				4022: Other Tactical Data Link Engineering					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ACD Development and Integration	SS/CPFF	Raytheon:Sudbury, MA	0.500	10.388	Apr 2012	15.798	Jan 2013	1.372	Jan 2014	-		1.372	0.000	28.058	27.529
ACD Development and Integration	WR	SPAWAR:San Diego, CA	0.000	0.580	Aug 2012	2.683	Jan 2013	0.140	Feb 2014	-		0.140	0.000	3.403	
Subtotal			0.500	10.968		18.481		1.512		0.000		1.512	0.000	31.461	
Remarks															
See Classified Annex for details of this project.															
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering Support	C/CPFF	JHU/APL:Laurel, MD	0.065	0.250	Feb 2012	0.100	Mar 2013	0.012	Nov 2013	-		0.012	0.000	0.427	
Systems Engineering Support	WR	SPAWAR:San Diego, CA	0.000	0.235	Jul 2012	0.474	Feb 2013	0.660	Feb 2014	-		0.660	0.000	1.369	
Systems Engineering Support	MIPR	MIT/LL:Hanscom, MA	0.000	0.050	Feb 2012	0.025	Dec 2012	0.150	Dec 2013	-		0.150	0.000	0.225	
Systems Engineering Support	C/CPAF	Systems, Planning and Analysis:Alexandria, VA	0.000	0.170	Jul 2012	0.600	Mar 2013	0.300	Dec 2013	-		0.300	0.000	1.070	
Subtotal			0.065	0.705		1.199		1.122		0.000		1.122	0.000	3.091	
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ACD Test	SS/CPFF	Raytheon:Subury, MA	0.000	0.000		2.000	Mar 2013	2.000	Dec 2013	-		2.000	0.000	4.000	4.000

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0205604N: Tactical Data Links				PROJECT 4022: Other Tactical Data Link Engineering					
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ACD Test	WR	SPAWAR:San Diego, CA	0.016	0.000		0.284	Feb 2013	0.300	Dec 2013	-		0.300	0.000	0.600	
Subtotal			0.016	0.000		2.284		2.300		0.000		2.300	0.000	4.600	
Remarks See Classified Annex for details of this project.															
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	C/CPAF	Systems, Planning and Analysis:Alexandria, VA	0.019	0.018	Feb 2012	0.025	Dec 2012	0.025	Jan 2014	-		0.025	0.000	0.087	
TRAVEL	Allot	PEOISWS2I:Washington, DC	0.000	0.010	Aug 2012	0.010	Dec 2012	0.010	Dec 2013	-		0.010	0.000	0.030	
Subtotal			0.019	0.028		0.035		0.035		0.000		0.035	0.000	0.117	
Remarks See Classified Annex for details of this project.															
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.600	11.701		21.999		4.969		0.000		4.969	0.000	39.269	
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy			DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM NOMENCLATURE		
1319: Research, Development, Test & Evaluation, Navy			PE 0205604N: Tactical Data Links		
BA 7: Operational Systems Development			PROJECT		
			4022: Other Tactical Data Link Engineering		

	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Proj 4022																												
See Classified Annex for Details.																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0205604N: <i>Tactical Data Links</i>	PROJECT 4022: <i>Other Tactical Data Link Engineering</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 4022</i>				
See Classified Annex for Details.	1	2012	1	2016