

EXHIBIT R-2, RDT&E Budget Item Justification				DATE: February 2008			
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY/BA-7			R-1 ITEM NOMENCLATURE 0205604N TACTICAL DATA LINKS				
COST (\$ in Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	32.158	5.408	4.247	4.827	8.261	15.396	14.459
1743 Link-16 Improvements	1.584						
2126 ATDLS Integration	30.574	5.408	4.247	4.827	8.261	15.396	14.459
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>(U) This program element (PE) develops and improves the Navy's tactical data link (TDL) systems. It includes the Link-16 Improvements and Advanced Tactical Data Link Systems (ATDLS) Integration Programs.</p> <p>(U) Link-16 Improvements extend Link-16 technological improvements to existing and new United States (US) Navy TDL systems. Link-16 Joint Range Extension (JRE) transfers Link-16 data via satellite communications and other non-radio frequency (RF) paths. This project allows more effective employment of fleet units by increasing timeliness, accuracy, and content of tactical data transfer by improving communications beyond line of sight, thereby improving operational flexibility. The Common Data Link Monitoring System (CDLMS) will be upgraded to Next Generation Command and Control Processor (NGC2P) with advanced processors required to support critical data link functions including Link-16 JRE.</p> <p>(U) ATDLS Integration Program develops new and improved capabilities for Navy Link-16 users. Development of new capabilities in ATDLS includes the Joint Interface Control Officer (JICO) Support System (JSS), Common Link Integration Processing (CLIP) and Dynamic Network Management (DNM). JSS will be the standard joint service toolset to monitor and control Multi-TDL network architectures. The Common Link Integration Processing (CLIP) concept will introduce open system software required to reduce life cycle support costs and commercial off-the-shelf (COTS) technology refresh objectives. The CLIP development concept addresses fundamental interoperability and affordability of tactical data link capabilities through cooperative development program under both U. S. Navy (USN) and U.S. Air Force (USAF) sponsorship. The principal goal of CLIP is to develop a multi-TDL software capability that can be utilized by multiple platforms (aircraft, ships, and ground) for all services. Dynamic Network Management (DNM) will provide automatic reconfiguration of Link-16 networks that respond instantly to emergent warfighter requirements in the field. DNM consists of different capabilities including Network Control Technologies (NCT), new terminal protocols (time slot reallocation (TSR) receipt compliance (RC) (TSR RC) and Stochastic Unified Multiple Access (SHUMA)) and has been significantly expanded to include a more robust TSR and adaptive multi-netting. The DNM capability will be used in the JSS host system and also Joint Tactical Information Distribution System (JTIDS), Multifunctional Information Distribution System (MIDS), MIDS on Ship (MOS), and Joint Tactical Radio System (JTRS) terminals.</p> <p>(U) This program element also funds: (1) the development required to accommodate expanded Link-16 operational capabilities for additional warfare areas, (2) development of automated network management aids, and (3) related systems engineering and contractor support efforts.</p> <p>(U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under OPERATIONAL SYSTEMS DEVELOPMENT because it encompasses engineering and manufacturing development for upgrade of existing operational systems.</p>							

Exhibit R-2, RDTEN Budget Item Justification

EXHIBIT R-2, RDT&E Budget Item Justification		DATE: February 2008	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE		
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY/BA-7	0205604N TACTICAL DATA LINKS		
(U) B. PROGRAM CHANGE SUMMARY:			
(U) Funding:	FY 2007	FY 2008	FY 2009
FY08 President's Budget	41.798	5.534	6.165
FY09 President's Budget	32.158	5.408	4.247
Total Adjustments	-9.640	-0.126	-1.918
Summary of Adjustments			
Congressional Adjustments		-0.045	
Miscellaneous Adjustments	-8.78		-1.918
Small Business Innovative Research (SBIR) Tax	-0.860	-0.081	
Subtotal	-9.640	-0.126	-1.918
 (U) Schedule:			
Link 16 (project 1743) - Next Generation Command and Control Processor (NGC2P) LRIP-3 Program Review (PR) moved from 2nd quarter FY07 to 3rd quarter FY07.			
ATDLS (project 2126) - CLIP Increment 1 Milestone (MS) C moves from 2nd quarter FY08 to 4th quarter FY08. CLIP Acceptance Testing (CAT) of Increment 1 software capabilities and functionality moves from 4th quarter FY07 to 2nd quarter FY08. CLIP OT renamed CLIP OA. Prior to Increment 1 MS C, CLIP development transitions to the U.S. Air Force. CLIP increment 2 (Air Force only) events removed from schedule.			
JSS milestone C/FRP renamed to JSS MS C/LRIP. JSS FRP slipped from 4th quarter FY08 to 4th quarter FY09. JSS DT2/OT renamed JSS DT2/OA. JSS OT scheduled for 2nd quarter FY09.			
 (U) Technical: Not applicable.			

Exhibit R-2, RDT&E Budget Item Justification

EXHIBIT R-2a, RDT&E Project Justification					DATE: February 2008			
APPROPRIATION/BUDGET ACTIVITY RDT&E.N/BA-7		PROGRAM ELEMENT NUMBER AND NAME 0205604N TACTICAL DATA LINKS			PROJECT NUMBER AND NAME 1743 LINK-16 IMPROVEMENTS			
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost		1.584						

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

(U) Link-16 Improvements extend Link-16 technological improvements to existing and new United States (US) Navy TDL systems. Link-16 Joint Range Extension (JRE) transfers Link-16 data via satellite communications and other non-radio frequency (RF) paths. High Throughput Link-16 provides improved data transmission rates by altering the modulation characteristics of Link-16. This project allows more effective employment of fleet units by increasing timeliness, accuracy, and content of tactical data transfer by improving communications beyond line of sight, thereby improving operational flexibility. The Common Data Link Monitoring System (CDLMS) will be upgraded to Next Generation Command and Control Processor (NGC2P) to provide higher Central Processing Unit (CPU) speeds, update rate and memory capacity required for advanced multi-TDL processing functions. NGC2P will update CDLMS with advanced processors required to support critical data link functions including Link-16 JRE.

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008
APPROPRIATION/BUDGET ACTIVITY RDT&E,N/BA-7	PROGRAM ELEMENT NUMBER AND NAME 0205604N TACTICAL DATA LINKS	PROJECT NUMBER AND NAME 1743 LINK-16 IMPROVEMENTS
(U) B. Accomplishments/Planned Program		
NGC2P CAPABILITY	FY 07	FY 08
Accomplishments/Effort/Subtotal Cost	1.584	
RDT&E Articles Quantity		
<p>FY07: Conducted technical evaluation (TECHEVAL) and operational evaluation (OPEVAL) of Next Generation Command and Control Processor (NGC2P) Joint Range Extension (JRE) capability. NGC2P software deficiencies found during developmental testing (DT) were corrected, tested and evaluated in preparation for OPEVAL. Prepared test procedures and NGC2P equipment for the Military Standard -901-D shock and vibration testing. Achieved full rate production (FRP) decision for NGC2P.</p>		

Exhibit R-2a, RDTEEN Project Justification

EXHIBIT R-2a, RDT&E Project Justification								DATE: February 2008		
APPROPRIATION/BUDGET ACTIVITY RDT&E,N/BA-7			PROGRAM ELEMENT NUMBER AND NAME 0205604N TACTICAL DATA LINKS			PROJECT NUMBER AND NAME 1743 LINK-16 IMPROVEMENTS				
(U) C. OTHER PROGRAM FUNDING SUMMARY:										
<u>Line Item No. & Name</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Complete</u>	<u>To Cost</u>	<u>Total</u>
OPN Line 2614 ATDLS	11.960	3.835	14.206	13.497	0.000	0.000	0.000	0.000	0.000	43.498
(U) D. ACQUISITION STRATEGY:										
Next Generation Command and Control Processor (NGC2P) software development utilized an existing Northrop Grumman Defense Mission Systems, Inc. cost plus contract.										
(U) E. MAJOR PERFORMERS:										
Northrop Grumman Defense Mission Systems, Inc., Reston, Virginia. Performed as prime hardware and software development contractor for NGC2P. Technical Direction Letter awarded 18 July 2003.										
Space & Naval Warfare Systems Command Systems Center (SPAWARSYSCEN), San Diego, California. Performs as lead laboratory for NGC2P development, systems engineering, integration and test and evaluation.										

Exhibit R-3 Cost Analysis (page 1)										DATE: February 2008		
APPROPRIATION/BUDGET ACTIVITY RDT&E,N/BA-7			PROGRAM ELEMENT 0205604N TACTICAL DATA LINKS				PROJECT NUMBER AND NAME 1743 LINK-16 IMPROVEMENTS					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
NILE Subphase 2	CPIF	Logicon, San Diego, CA	3.171								3.171	3.171
NILE LLC Dev	CPIF	VIASAT, Carlsbad, CA	0.500								0.500	0.500
Link-22 Engineering/Integration	WX	SPAWARSSYSCEN, San Diego, CA	3.547								3.547	3.547
Link-22 Integration	CPFF	Logicon, San Diego, CA	0.116								0.116	0.116
Link-22 Network Design	WX	NCTSI, San Diego, CA	0.690								0.690	0.690
Command and Control Processor (C2P)	Various	Various	2.377								2.377	2.377
Multi-TADIL Capability MTC	Various	Various	1.696								1.696	1.696
Next Generation C2P Engineering/Integration	WX	SPAWARSSYSCEN, San Diego, CA	9.952								9.952	9.952
Next Generation C2P Engineering/Integration	Various	Various	2.010								2.010	2.010
Next Generation C2P GFE	Various	Various	0.796								0.796	0.796
Next Generation C2P Design/Dev	CPFF	APC, Austin, TX	8.013								8.013	8.013
Next Generation C2P Design/Dev TDA	CPFF	APL/JHU, Laurel, MD	11.038								11.038	11.038
Next Generation C2P Design/Dev	CPFF	Northrop Grumman DMS, Reston, VA	9.315								9.315	9.315
Subtotal Product Development			53.221	0.000		0.000		0.000			53.221	53.221
Remarks:												

Exhibit R-3 Cost Analysis (page 3)										DATE: February 2008		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E,N/BA-7			0205604N TACTICAL DATA LINKS			1743 LINK-16 IMPROVEMENTS						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
NGC2P Test & Evaluation	WX	SPAWARSYSCEN, San Diego, CA	6.131	1.132	11/06						7.263	7.263
NGC2P Test & Evaluation	WX	NCTSI, San Diego, CA	0.724								0.724	0.724
NGC2P Test & Evaluation	WX	OPTEVFOR, Norfolk, VA	0.140	0.209	11/06						0.349	0.349
Subtotal T&E			6.995	1.341		0.000		0.000			8.336	8.336
Remarks:												
Engineering Support and Travel	Various	Various	5.239	0.243	Various						5.482	5.482
Subtotal Management			5.239	0.243		0.000		0.000			5.482	5.482
Remarks:												
Total Cost			65.455	1.584		0.000		0.000			67.039	67.039
Remarks:												

Exhibit R-3, Project Cost Analysis

EXHIBIT R4, Schedule Profile																								DATE: February 2008								
APPROPRIATION/BUDGET ACTIVITY RDT&E,N/BA-7				PROJ R-1 ITEM NOMENCLATURE 0205604N TACTICAL DATA LINKS												PROJ PROJECT NUMBER AND NAME 1743 LINK-16 IMPROVEMENTS																
Fiscal Year	2005				2006				2007				2008				2009				2010				2011				2012			
	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	1	2	3	4
Program Milestones	EGIS BMD MS C LRIP				LRIP-2 Program Review (PR)				LRIP-3 Program Review (PR)				FRP																			
NGC2P		△					△				△				△																	
Engineering Milestones																																
NGC2P																																
Test & Evaluation Milestones					DT/CSIT/LINK CERT				DT / TECHEVAL				OPEVAL																			
NGC2P - JRE		△					△				△				△																	
Production Milestones	AEGIS BMD LRIP				LRIP-2				LRIP-3				FRP																			
NGC2P			△				△				△				△				△													

EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2008		
APPROPRIATION/BUDGET ACTIVITY RDT&E,N/BA-7		PROGRAM ELEMENT NUMBER AND NAME 0205604N TACTICAL DATA LINKS		PROJECT NUMBER AND NAME 2126 ATDLS INTEGRATION				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost		30.574	5.408	4.247	4.827	8.261	15.396	14.459

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

(U) ATDLS Integration Program develops new and improved capabilities for Navy Link-16 users. Development of new capabilities in ATDLS includes the Joint Interface Control Officer (JICO) Support System (JSS), Common Link Integration Processing (CLIP) and Dynamic Network Management (DNM). JSS will be the standard joint service toolset to monitor and control Multi-TDL network architectures. The Common Link Integration Processing (CLIP) concept will introduce open system software required to reduce life cycle support costs and commercial off-the-shelf (COTS) technology refresh objectives and high throughput Link-16. The CLIP development concept addresses fundamental interoperability and affordability of tactical data link capabilities through cooperative development program under both US Navy (USN) and US Air Force (USAF) sponsorship. The principal goal of CLIP is to develop a Multi-TDL software capability that can be utilized by multiple platforms (aircraft, ships, and ground) for all services. Dynamic Network Management (DNM) will provide automatic reconfiguration of Link-16 networks that respond instantly to emergent warfighter requirements in the field. DNM consists of different capabilities including Network Control Technologies (NCT), new terminal protocols (Time Slot Reallocation (TSR) receipt compliance (RC) (TSR RC) and Stochastic Unified Multiple Access (SHUMA)) and has been significantly expanded to include a more robust TSR and adaptive multi-netting. The DNM capability will be used in the JSS host system and also Joint Tactical Information Distribution System (JTIDS), Multifunctional Information Distribution System (MIDS), MIDS on Ship (MOS) and Joint Tactical Radio System (JTRS) terminals. The Dynamic Network Management (DNM) Time Slot Reallocation (TSR) Receipt compliance (RC) will be incorporated into Next Generation Command and Control Processor (NGC2P).

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

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008
APPROPRIATION/BUDGET ACTIVITY RDT&E,N/BA-7	PROGRAM ELEMENT NUMBER AND NAME 0205604N TACTICAL DATA LINKS	PROJECT NUMBER AND NAME 2126 ATDLS INTEGRATION

(U) B. Accomplishments/Planned Program

Joint Interface Control Officer Spt Sys (JSS)	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	10.850	0.374	0.000

This funding includes the Navy's contribution to the Joint Interface Control Officer (JICO) Support System (JSS) joint development initiative with the US Air Force (USAF).

FY07: Continued software development to include the implementation of remote JICO database repository (JDR); dynamic network management and reconfiguration lists in Link-16 message standards; gateways to be interfaced to variable message format (VMF) and Intelligent Broadcast System (IBS); on-line and off-line training mode via simulation and computer based training; and system security administration/profile management to ensure data security integrity. Conducted early operational assessment (EOA) on JSS software capabilities and functionalities developed and to demonstrate system maturity and readiness. Conducted the security and vulnerability for system approval to operate (ATO). Prepared and updated all required documents for MS C decision.

FY08 Plan: Conduct development test 2 (DT 2) and operational assessment (OA) on all software and hardware developed. Conduct the Joint Interoperability Certification Testing. Achieve Joint MS C Decision and full rate production (FRP). Conduct operational test (OT).

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2008
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APPROPRIATION/BUDGET ACTIVITY RDT&E,N/BA-7	PROGRAM ELEMENT NUMBER AND NAME 0205604N TACTICAL DATA LINKS	PROJECT NUMBER AND NAME 2126 ATDLS INTEGRATION
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(U) B. Accomplishments/Planned Program

Common Link Integration Processing (CLIP)	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	9.732	0.000	0.000

FY07: Continued development of software. Conducted CLIP V & V of Increment 1 software capabilities. Developed plans for platform integration and testing of Increment 1 software on lead platform. Prepared for US Navy and US Air Force CLIP increment 1 Milestone C decision (3rd/FY09). Prior to Increment 1 MS C, CLIP development transitions to USAF. Navy participation in development phase ends.

Dynamic Network Management (DNM)	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	9.992	5.034	4.247

FY07: Continued development of multi-netting capabilities. Commenced development of Multi-netting Phase II capability. Continued platform integration and testing of Time Slot Reallocation (TSR) receipt compliance (RC) (TSR RC) (Aegis Baselines). Continued shipboard and aircraft integration of the DNM capabilities including the expanded Time Slot Reallocation (TSR) Receipt Compliance TSR RC. Continued support on DNM integrated logistic support products. Implemented Link-16 frequency re-mapping enhancements.

FY08: Continue development of Multi-netting Phase II capabilities. Conduct Multi-netting Phase I operational test. Conduct TSR RC/Stochastic Unified Multiple Access (SHUMA) operational test. Continue platform integration testing for TSR RC (Aegis Baselines). Continue support on DNM integrated logistic support products.

FY09: Conduct Multi-netting Phase II CDR. Achieve TSR RC Initial Operating Capability (IOC). Continue support on DNM integrated logistic support products. Test and evaluate DNM capabilities in the Next Generation Command & Control Processor (NGC2P), Multifunctional Information Distribution System (MIDS) on Ship (MOS), and Joint Tactical Information Distribution System (JTIDS).

EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2008		
APPROPRIATION/BUDGET ACTIVITY RDT&E,N/BA-7		PROGRAM ELEMENT NUMBER AND NAME 0205604N TACTICAL DATA LINKS			PROJECT NUMBER AND NAME 2126 ATDLS INTEGRATION				
(U) C. OTHER PROGRAM FUNDING SUMMARY:									
<u>Line Item No. & Name</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>
OPN LI 2614 ATDLS	11.960	3.835	14.206	13.497	0.000	0.000	0.000	0.000	43.498
RDT&E,AF 0207434F/5050	184.100	151.289	155.710	159.298	162.024	165.427	168.900	Continuing	Continuing
SCN - Funding for ATDLS hardware is not separately identified in the SCN budget exhibits.									
RELATED RDT&E: PE 0207434F/5050 - TDL System Integration									
(U) D. ACQUISITION STRATEGY:									
<p>The Air Force was designated as the acquisition executive for the Joint Interface Control Officer (JICO) Support System (JSS). For JSS Phase I, the government competed and awarded three firm fixed price contracts to Northrop Grumman Defense Mission Systems, Inc.; Lockheed Martin Corporation and Advanced Information Engineering Services, Inc. for Engineering Development Models (EDMs) system development and demonstration. For JSS Phase II, there was a down select to Northrop Grumman Defense Mission Systems, Inc. to complete Phase II development, integration and test utilizing cost plus award fee, firm fixed price, time and material and cost reimbursable contract options. For Common Link Integration Processing (CLIP), a competitive cost plus award fee/incentive fee contract was awarded by the Navy to Northrop Grumman Defense Mission Systems, Inc. to develop a single common data link integration solution that can be configured to satisfy a broad-range of platforms. The Dynamic Network Management (DNM) Network Controller Technology will be incorporated into JSS Block 1 and will utilize the contract for JSS. The Dynamic Network Management (DNM) Time Slot Reallocation (TSR) Receipt compliance (RC) (TSR RC) will be incorporated into NGC2P and will utilize the contract for NGC2P. Remaining DNM development efforts will utilize an existing development contract with BAE Systems.</p>									
(U) E: MAJOR PERFORMERS:									
<p>Northrop Grumman Defense Mission Systems, Inc., Reston, Virginia (VA). Performs as prime hardware and software development contractor for JSS. Contract awarded 27 May 2005. Northrop Grumman Defense Mission Systems, Inc., Reston, VA. Performs as prime software development contractor for CLIP. Contract awarded 9 June 2005. BAE Systems Inc., Wayne, NJ. Major performer for DNM development. Space & Naval Warfare Systems Command Systems Center (SPAWARSSYSCEN), San Diego, California. Performs as lead laboratory for CLIP, JSS and DNM development, systems engineering, integration and test and evaluation.</p>									
(U) F: METRICS:									
Earned Value Management is used for metrics reporting and risk management.									

Exhibit R-3 Cost Analysis											DATE: February 2008	
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E,N/BA-7			0205604N TACTICAL DATA LINKS			2126 ATDLS INTEGRATION						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
MIDS F/A-18 Integration	WX	Various	153.119								153.119	153.119
TADIL-J System Engineering	WX	SPAWARSYSCEN, San Diego, CA	28.233								28.233	28.233
TADIL-J System Engineering	Various	Various	4.654								4.654	4.654
MIDS on Ship	CPIF	BAE Systems, Wayne, NJ (DLS)	15.944								15.944	15.944
MIDS on Ship	Various	Various	44.331								44.331	44.331
Performance Upgrades	WX	SPAWARSYSCEN, San Diego, CA	14.213								14.213	14.213
Performance Upgrades	Various	Various	5.236								5.236	5.236
Air Defense System Integrator	CPFF	APC, Austin, TX	2.059								2.059	2.059
Dual Net Link-11	WX	Various	1.866								1.866	1.866
Korean Air Defense Sys Impr	CPFF	JHU/APL, Laurel, MD	0.900								0.900	0.900
DNMFL Prototypes	Various	Various	2.127								2.127	2.127
JSS Software Dev and Integration	FFP	Various	8.778								8.778	8.778
JSS Software Dev and Integration	CPAF/FFP	Northrop Grumman DMS, Reston, VA	22.322	10.700	07/07						33	33
JSS Systems Engineering	CPFF	Galaxy Scientific, Arlington, VA	0.769								0.769	0.769
JSS Systems Engineering	WX	SPAWARSYSCEN, San Diego, CA	2.619	0.100	03/07	0.119	02/08				2.838	2.838
JSS Systems Engineering	Various	Various	0.333	0.050	Various	0.098	Various				0.481	0.481
CLIP Dev	WX	SPAWARSYSCEN, San Diego, CA	2.918	1.185	06/07						4.103	4.103
CLIP Dev	Various	Various	8.090	0.646	Various						8.736	8.736
CLIP SW Dev	CPAF/IF	Northrop Grumman DMS, Reston, VA	27.794	2.567	07/07						30.361	30.361
CLIP Lead Platform Integration	CPFF	Lockheed Martin Corp, Moorestown, NJ	0.000								0.000	0.000
TDL Training SW Dev	WX	NAVAIR Training Sys Div, Orlando, FL	1.605								1.605	1.605
DNM System Engineering & Integration	WX	SPAWARSYSCEN, San Diego, CA	14.474	1.419	11/06	1.413	11/07	1.496	11/08	Continuing	Continuing	Continuing
DNM Development	CPFF	Northrop Grumman DMS, Reston, VA	3.747								3.747	3.747
DNM Development	MIPR	Warner Robbins AFB, GA	1.485			0.100	02/08	0.102	11/08	Continuing	Continuing	Continuing
DNM Development	CPIF	BAE Systems, Wayne, NJ (DLS)	2.327	1.400		0.200	02/08				3.927	3.927
DNM Host Platform Integration Sys Eng	CPFF	SeaPort-E/TBD	0.550			0.450	11/07	0.100	11/08	Continuing	Continuing	Continuing
DNM Systems Engineering	Various	Various	2.971	1.054	Various	0.450	Various	0.250	Various	Continuing	Continuing	Continuing
Subtotal Product Development			373.464	19.121		2.830		1.948				
Remarks:												

Exhibit R-3, Project Cost Analysis

Exhibit R-3 Cost Analysis										DATE: February 2008		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME					
RDT&E.N/BA-7			0205604N TACTICAL DATA LINKS				2126 ATDLS INTEGRATION					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Test and Evaluation	Various	Various	4.025								4.025	4.025
MIDS F/A-18 T&E	WX	SPAWARSYSCEN, San Diego, CA	12.774								12.774	12.774
MIDS F/A-18 T&E	Various	Various	11.706								11.706	11.706
MIDS on Ship T&E	PD	OPTEVFOR, Norfolk, VA	0.092								0.092	0.092
MIDS on Ship T&E	WX	SPAWARSYSCEN, San Diego, CA	1.340								1.340	1.340
MIDS Test Assets	SS/CPAF/IF	MIDSCO, Fairfield, NJ	6.594								6.594	6.594
JSS T&E	WX	SPAWARSYSCEN, San Diego, CA	0.553								0.553	0.553
JSS T&E	WX	OPTEVFOR, Norfolk, VA	0.442			0.105	02/08				0.442	0.442
JSS T&E	WX	NCTSI, San Diego, CA	0.131			0.052	02/08				0.183	0.183
JSS Test Articles	CPAF/FFP	Northrop Grumman DMS, Reston, VA	3.536								3.536	3.536
JSS Test Articles	WX	SPAWARSYSCEN, San Diego, CA	0.553								0.553	0.553
CLIP T&E	WX	OPTEVFOR, Norfolk, VA	0.126	0.060	01/07						0.186	0.186
CLIP T&E	WX	SPAWARSYSCEN, San Diego, CA	3.179	3.135	01/07						6.314	6.314
CLIP T&E	CPFF	AMSEC LLC, Virginia Beach, VA		0.730	07/07							
Dynamic Network Management T&E	WX	SPAWARSYSCEN, San Diego, CA	7.216	1.670	11/06	0.550	11/07	0.384	11/08	Continuing	Continuing	Continuing
Dynamic Network Management T&E	WX	OPTEVFOR, Norfolk, VA	0.214					0.100	11/08	Continuing	Continuing	Continuing
Dynamic Network Management T&E	WX	Various	1.310	0.576	Various	0.324	Various	0.261	Various	Continuing	Continuing	Continuing
Dynamic Network Management T&E	CPFF	AMSEC LLC, Virginia Beach, VA		1.198	07/07							
Dynamic Network Management T&E	CPAF/FFP	ViaSat, Carlsbad, CA		0.900	08/07							
ATDLS T&E Support	CPFF	AMSEC LLC, Virginia Beach, VA	0.539	0.375	11/06	0.286	11/07	0.292	11/08	Continuing	Continuing	Continuing
Subtotal T&E			54.330	8.644		1.317		1.037				
Engineering Support and Travel	Various	Various	14.876	2.809	Various	1.261	Various	1.262	Various	Continuing	Continuing	Continuing
Subtotal Management			14.876	2.809		1.261		1.262				
Remarks:												
Total Cost			442.670	30.574		5.408		4.247				

Exhibit R-4a, Schedule Detail					DATE: February 2008		
APPROPRIATION/BUDGET ACTIVITY RDT&E,N/BA-7	PROGRAM ELEMENT NUMBER AND NAME 0205604N TACTICAL DATA LINKS				PROJECT NUMBER AND NAME 2126 ATDLS INTEGRATION		
Schedule Profile	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
JSS EOA	1Q						
JSS CDR	2Q						
DNM Platform Integration	3Q						
DNM Platform Integration Test		1Q					
JSS DT2/OA		2Q					
CLIP Increment 1 CAT		2Q					
CLIP Increment 1 Platform Integ		3Q					
DNM Platform Integration		3Q					
CLIP Increment 1 OT		4Q					
DNM TSR RC OT		4Q					
DNM Multinetting Phase I OT		4Q					
JSS MS C/LRIP		4Q					
DNM TSR RC IOC			1Q				
JSS OT			2Q				
DNM Multinetting Phase II CDR			3Q				
CLIP Increment 1 MS C			3Q				
JSS FRP			4Q				
JSS FRP Contract Award				1Q			
DNM Multinetting Phase I IOC				2Q			
DNM Multinetting Phase II DT				3Q			
SHUMA OT				3Q			
DNM Multinetting Phase II Platform DT				4Q			
DNM SHUMA IOC				4Q			
DNM Multinetting Phase II OA					3Q		
DNM Multinetting Phase II OT						3Q	
DNM Multinetting Phase II IOC							3Q

Exhibit R-4a, Schedule Detail