

<b>CLASSIFICATION:</b>								
EXHIBIT R-2, RDT&E Budget Item Justification							DATE: February 2007	
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				
<b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY /</b>				PE 0604721N Battle Group Passive Horizon Extension System				
				<b>BA 5</b>				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	32.245							
2134/SHIPBOARD Information Warfare (IW) EXPLOIT	18.193							
9999/Congressional Adds	14.052							
Quantity of RDT&E Articles								
<p><b>Shipboard IW migrates to PE 0304785N (Tactical Cryptologic Systems) beginning FY07.</b></p> <p><b>U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b>                      The Shipboard Information Warfare (IW) line includes the following programs: Ships Signal Exploitation Equipment (SSEE), the Program of Record that executes the Maritime Cryptologic Systems for the 21st Century (MCS 21) and Communications Data Link System (CDLS) the Program of Record that implements the DoD mandated use of the Common Data Link waveform to downlink un-processed Imagery Intelligence (IMINIT). These systems provide the Battle Group with real time Indications and Warnings (I&amp;W) by acquisition and localization of signals of interest (SOI). This program's funding is required to incorporate new commercial off-the-shelf (COTS) based technologies and software into the existing systems. The funding will focus on merging the current IW sensor systems into a scalable sensor package that can be tailored to different ship types and be compliant with the Maritime Cryptologic Architecture.</p> <p>Military Intelligence Program (MIP), formerly Tactical Intelligence and Related Activities (TIARA) (DOD 7000.14) is reported to Congress in the MIP Congressional Justification Book (CJB).</p> <p><b>Congressional Adds *:</b>                      NAVY INTELLIGENT AGENT SECURITY MODULE (IASM): – Offensive Capabilities (program name recently changed to Sensing, Warning, and Response Manager (SWARM)). Funds provided for Small Business Innovation Research (SBIR) II research, development, testing and evaluation of newly designed “Offensive capabilities technology for the IASM . Assures information dominance and superiority against threats with forensics and countermeasure options.</p> <p>SMART SIGNAL PARSER AND ACTIONABLE INTELLIGENCE: - Funds are provided to develop and expand the applied Special Signal rule set and to expand the subject signal set to cover the larger number of signal types that are required. Develop message text retrieval software for special signal case; to expand the Actionable Intelligence Extractor (AIE) data mining capability to cover additional signal types and expand actionable intelligence extraction rule set that permit automated actionable intelligence extraction of other key signals of interest in the war on terror.</p> <p>COOPERATIVE OUTBOARD LOGISTICS UPGRADE (COBLU) - NETWORK CENTRIC WARFARE ENHANCEMENTS - The COBLU system will provide enhanced capabilities which will facilitate the integration of Control and Coordination Software that enables multiple COBLU systems to be operated remotely in compliance within the FORCENet constructs; coordinate resources and reduce system manning; and enable the distributed operation of COBLU systems allowing operators to be remotely located at an Regional Security Operations Center (RSOC) or a COBLU operator on one platform to task and utilize a second COBLU on another platform. As part of this effort, interface software between COBLU and Distributed Information Operations Service (DIO-S) will be provided and an at-sea technology demonstration will be conducted.</p> <p>ADVANCED TACTICAL COMMUNICATIONS INTERCEPT (ACTIC) - is a remote, Internet Protocol (IP) based sensor system developed to provide Carrier Strike Group (CSG)/Expeditionary Strike Group (ESG) personnel access to adversary wireless communication signals and will be used for signal exploitation. Designed for shipboard use and to be carried by unmanned air vehicles and fixed wing aircraft, it will provide deployed Naval and Marine Forces with a persistent over-the horizon Signal Intelligence (SIGINT) capability under their direct operational control.</p> <p>REMOTE SENSING AND DATA MANAGEMENT - Remote Sensing and Data Management is a multiple wireless sensors which will be installed in shipping containers including video imagery, and anti-tamper devices. Sensor data will be gathered by either a handheld device or a standalone hub, and will be stored in a sensor monitoring database for analysis and display using web based technology.</p>								

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EXHIBIT R-2, RDT&E Budget Item Justification		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	
<b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY / BA-5</b>	PE 0604721N Battle Group Passive Horizon Extension System	
<b>Congressional Adds Continued:</b>		
<p>TAPERED SLOT ANTENNA - A tapered slot antenna has been developed to collect modern hostile threat communications signals. The prototype was initially developed with National Security Agency (NSA) Tactical SIGINT Technology (TST) funding. Additionally needed technology upgrades have been identified to further improve antenna functionality and to enhance its ability for hostile/threat emitter detection, which will be back fitted as future engineering change proposals (ECPs) to the tapered slot antenna system. Accelerated development of these urgently needed tapered slot antenna upgrades will significantly enhance SSEE Increments E's ability to both collect and process signals for Indications and Warning (I&amp;W) more accurate cuing of sensors, improved Communication Intelligence (COMINT) and Electronics Intelligence (ELINT) signal exploitation and timely support for Time Critical Strike operations. Additional development to the Tapered Slot Antenna will incorporate the latest advances in digital technology and provide the Navy with its first truly multi-function antenna suitable for simultaneous direction Finding (DF), signal acquisition and Information Operations (IO).</p> <p>TREXIMILDEC TACTICAL TARGET GENERATOR SYSTEM - MILDEC Tactical Target Generator (TTG) will provide both offensive and defensive Information Operations (IO) and Military Deception (MILDEC) capabilities for military aircraft against current and future hostile air defense systems. In the offensive mode, the TTG will provide a tactical IO capability for airborne platforms to electronically stimulate hostile air defense acquisition and tracking radars so they can be detected and located by National and tactical sensors, and then be destroyed by US or coalition forces. In the defensive mode, the TTG will enable tactical airborne platforms (manned, unmanned, fixed wing or rotary) to successfully enter, transit and egress hostile territory by appearing as a non-threatening air contact.</p>		

Exhibit R-2, RDT&E Budget Item Justification

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EXHIBIT R-2, RDT&E Budget Item Justification	DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
<b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY / BA 5</b>	PE 0604721N Battle Group Passive Horizon Extension System

**(U) B. PROGRAM CHANGE SUMMARY:**

(U) Funding:	FY 2006	FY 2007	FY 2008	FY 2009
FY 07 President's Budget	32.779			
FY 08 President's Budget	32.245			
Total Adjustments	-0.534	0.000	0.000	0.000
Summary of Adjustments				
Sec. 8125: Revised Economic Assumptions	-0.058			
Congressional 1% Reduction	-0.136			
Small Business Innovation Research (SBIR) Tax	-0.340			
Subtotal	-0.534	0.000	0.000	0.000

(U) Schedule:  
Not Applicable.

(U) Technical:  
Not Applicable.

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<b>CLASSIFICATION:</b>									
EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME			
<b>RDT&amp;E, N / BA-5</b>		PE 0604721N Battle Group Passive Horizon Extension System				2134/SHIPBOARD Information Warfare (IW) EXPLOIT			
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost		<b>18.193</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
RDT&E Articles Qty									
<p><b>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b></p> <p>The Shipboard Information Warfare (IW) line includes the following programs: Ships Signal Exploitation Equipment (SSEE), the Program of Record that executes the Maritime Cryptologic Systems for the 21st Century (MCS 21) and Communications Data Link System (CDLS) the Program of Record that implements the DoD mandated use of the Common Data Link waveform to downlink un-processed IMINIT (Imagery Intelligence). These systems provide the Battle Group with real time Indications and Warnings (I &amp; W) by acquisition and localization of signals of interest (SOI). This program's funding is required to incorporate new commercial off-the-shelf (COTS) based technologies and software into the existing systems. The funding will focus on merging the current IW sensor systems into a scalable sensor package that can be tailored to different ship types and be compliant with the Maritime Cryptologic Architecture.</p> <p>Military Intelligence Program (MIP), formerly Tactical Intelligence and Related Activities (TIARA) (DOD 7000.14)</p>									

Exhibit R-2a, RDT&E Project Justification

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA 5</b>	PROGRAM ELEMENT NUMBER AND NAME PE 0604721N Battle Group Passive Horizon Extension System	PROJECT NUMBER AND NAME 2134/SHIPBOARD Information Warfare (IW) EXPLOIT

(U) B. Accomplishments/Planned Program

Communications Data Link- System (CDLS)	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.600	0.000	0.000	0.000
RDT&E Articles Quantity				

FY06 - Continued Integration and Test of Phased Array Antenna Systems sub-array assemblies. Continue Vendor Interoperability and Integration Testing with emerging Navy sensor systems such as Broad Area Maritime Surveillance (BAMS), Multi-Mission Maritime Aircraft (MMA), Global Hawk Maritime Demonstration (GHMD), F/A-18 Shared Reconnaissance Pod (SHARP), P-3C Aircraft Improvement Program (AIP), and Electronics P-3E (EP-3E) Multi-into systems. Continued Design and Develop KGV-135A Communication Security (COMSEC) Module.

Note: Name change from CDL-N Block 1 to CDLS.

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
<b>RDT&amp;E, N / BA 5</b>	PE 0604721N Battle Group Passive Horizon Extension System	2134/SHIPBOARD Information Warfare (IW) EXPLOIT

**(U) B. Accomplishments/Planned Program**

Multi-Mission Payload (MMP)	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	1.000	0.000	0.000	0.000
RDT&E Articles Quantity				

FY06 - Completed carrier launch qualifications and performed flight demonstrations on carrier launched aircraft.

Ship Signal Exploitation Equipment (SSEE)	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	14.363	0.000	0.000	0.000
RDT&E Articles Quantity				

FY06 - Continued with effort to improve Command and Control software portion of the Hostile Force Integration Targeting Subsystems (HITS) in SSEE Increment E. Continued to expand Signals of Interest (SOI) processing capability to priority signal sets. Fully test improved software. Modified Cryptologic On-Line Trainer (COLT) server to upgrade current software releases. Continued development and integration of Cryptologic Unified Build (CUB) software. Began SSEE Inc F development to support Engineering Development Models (EDMs), system design, integration, testing and remoting of manned and unmanned platforms.

Note: CUB and COLT will be migrated into SSEE Program beginning FY 06.

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDT&E, N / BA 5	PE 0604721N Battle Group Passive Horizon Extension System	2134/SHIPBOARD Information Warfare (IW) EXPLOIT

(U) B. Accomplishments/Planned Program

Specific Emitter Identification (SEI)	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	1.230	0.000	0.000	0.000
RDT&E Articles Quantity				

FY06 - Continued incorporation of next generation SEI algorithms into existing fielded SEI systems with new algorithms and software. Increase capabilities to distribute and utilize SEI data in network centric architectures. Enhanced automation capabilities of SEI collection, processing, and reporting software. Integrated geolocation information with SEI systems. Continued incorporation of SEI into Electronic Intelligence (ELINT) and the overall Navy EW architecture, and use of Commercial Off-The-Shelf (COTS) hardware for SEI data extraction. Developed software enhancements in Global Command and Control - Maritime (GCCS-M), Generic Area Limitation Environment (GALE) Lite, and other fielded systems to support next generation SEI capabilities and data types. Pursued SEI-based de-interleaving for tactical and high volume collectors. Pursued enhanced SEI algorithms and techniques.

Antenna & RF Distribution	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	1.000	0.000	0.000	0.000
RDT&E Articles Quantity				

FY06 - Continued development of antenna & radio frequency (RF) tools to enhance future capabilities via new technologies, Engineering Development Model (EDM) development, testing and certification.

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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME																		
<b>RDT&amp;E, N / BA-5</b>	PE 0604721N Battle Group Passive Horizon Extension System	2134/SHIPBOARD Information Warfare (IW) EXPLOIT																		
<p><b>(U) C. OTHER PROGRAM FUNDING SUMMARY:</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;"><u>Line Item No. &amp; Name</u></th> <th style="text-align: right; border-bottom: 1px solid black;"><u>FY 2006</u></th> <th style="text-align: right; border-bottom: 1px solid black;"><u>FY 2007</u></th> <th style="text-align: right; border-bottom: 1px solid black;"><u>FY 2008</u></th> <th style="text-align: right; border-bottom: 1px solid black;"><u>FY 2009</u></th> <th style="text-align: right; border-bottom: 1px solid black;"><u>FY 2010</u></th> <th style="text-align: right; border-bottom: 1px solid black;"><u>FY 2011</u></th> <th style="text-align: right; border-bottom: 1px solid black;"><u>FY 2012</u></th> <th style="text-align: right; border-bottom: 1px solid black;"><u>FY 2013</u></th> </tr> </thead> <tbody> <tr> <td style="padding-left: 20px;">OPN Line 2360</td> <td style="text-align: right;">76.539</td> <td style="text-align: right;">71.192</td> <td style="text-align: right;">51.375</td> <td style="text-align: right;">92.397</td> <td style="text-align: right;">104.883</td> <td style="text-align: right;">87.827</td> <td style="text-align: right;">93.076</td> <td style="text-align: right;">94.423</td> </tr> </tbody> </table> <p style="margin-top: 20px;"><b>(U) D. ACQUISITION STRATEGY: *</b></p> <p style="margin-left: 20px;">Acquisition, management and contracting strategies are to support engineering and manufacturing development by providing funds to SPAWAR Systems Center (SSC)-Charleston, SSC-San Diego and miscellaneous contractors, with management oversight by SPAWAR.</p> <p style="margin-top: 20px;"><b>(U) E. MAJOR PERFORMERS:</b> N/A</p> <p style="margin-top: 20px;"><b>(U) F. METRICS:</b> Earned Value Management (EVM) is used for metrics reporting and risk management.</p>			<u>Line Item No. &amp; Name</u>	<u>FY 2006</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>	OPN Line 2360	76.539	71.192	51.375	92.397	104.883	87.827	93.076	94.423
<u>Line Item No. &amp; Name</u>	<u>FY 2006</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>												
OPN Line 2360	76.539	71.192	51.375	92.397	104.883	87.827	93.076	94.423												

<b>CLASSIFICATION:</b>												
Exhibit R-3 Cost Analysis (page 1)										DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME					
<b>RDT&amp;E, N / BA 5</b>			PE 0604721N Battle Group Passive Horizon Extension System				2134/SHIPBOARD Information Warfare (IW) EXPLOIT					
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
Primary Hardware Development	Various	Various	49.299									
Ancillary Hardware Development												
Systems Engineering	Various	Various	16.140									
Training Development	Various	Various	0.336									
Licenses												
Tooling												
GFE												
Award Fees												
Subtotal Product Development			65.775	0.000		0.000						
Remarks:												
Development Support												
Software Development	Various	Various	18.098									
Training Development												
Integrated Logistics Support	Various	Various	0.751									
Configuration Management	Various	Various	0.436									
Technical Data												
GFE												
Subtotal Support			19.285	0.000		0.000						
Remarks:												

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<b>CLASSIFICATION:</b>												
Exhibit R-3 Cost Analysis (page 2)										DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME					
<b>RDT&amp;E, N / BA 5</b>			PE 0604721N Battle Group Passive Horizon Extension System				2134/SHIPBOARD Information Warfare (IW) EXPLOIT					
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
Developmental Test & Evaluation	Various	Various	5.722									
Operational Test & Evaluation	Various	Various	1.532									
Live Fire Test & Evaluation												
Test Assets	Various	Various	1.597									
Tooling												
GFE												
Subtotal T&E			8.851			0.000						
Remarks:												
Contractor Engineering Support												
Government Engineering Support												
Program Management Support	Various	Various	11.149									
Travel	Various	Various	0.551									
Subtotal Management			11.700									
Remarks:												
Total Cost			105.611									
Remarks:												

CLASSIFICATION:

EXHIBIT R4, Schedule Profile																				DATE: February 2007																
APPROPRIATION/BUDGET ACTIVITY					PROGRAM ELEMENT NUMBER AND NAME										PROJECT NUMBER AND NAME																					
<b>RDT&amp;E, N /</b>					<b>BA- 5</b>					PE 0604721N Battle Group Passive Horizon Extension System										2134 SHIPBOARD IW EXPLOIT/COMMUNICATIONS DATA LINK-SYSTEM (CDLS)																
Fiscal Year	2005				2006				2007				2008				2009				2010				2011				2012				2013			
	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	1	2	3	4
<b>Acquisition Milestones</b>								▲																												
<b>Test &amp; Evaluation Milestones</b>																																				
Development Test	■																																			
Operational Test		■	■																																	
Interoperability Testing								■																												
<b>Production Milestones</b>																																				
LRIP I																																				
LRIP II																																				
FRP FY04	■	■	■	■																																
Deliveries				↓																																
				7																																
<b>Development Milestones</b>																																				
Phased Array Ant Interfaces	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■																				
Spiral 1 Design	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■																				
Spiral 1 ECP Dev	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■																				
JTRS SCA Core Framework	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■																				
JTRS SCA ECP Dev	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■																				
Vendor Interop & Int Testing	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■																				

\* Shipboard Information Warfare (IW) migrates to PE 0304785N (Tactical Cryptologic Systems) beginning FY07. Schedule data for PE 0304785N included in this exhibit for presentation purposes only.

Exhibit R-4 Schedule Profile



CLASSIFICATION:

EXHIBIT R4, Schedule Profile																	Multi-Mission Payload																	DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY					PROGRAM ELEMENT NUMBER AND NAME										PROJECT NUMBER AND NAME																					
<b>RDT&amp;E, N / BA- 5</b>					PE 0604721N Battle Group Passive Horizon Extension System										2134 SHIPBOARD INFORMATION WARFARE (IW) EXPLOIT/MULTI-MISSION PAYLOAD (MMP)																					
Fiscal Year	2005				2006				2007				2008				2009				2010				2011				2012				2013			
	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	1	2	3	4
Acquisition Milestones												MS B △																								
System Development	A/C Integration Planning																																			
Equipment Delivery EDM Delivery			▲																																	
Software																																				
Test & Evaluation Milestones			▲																																	
Development Test			▲																																	
Operational Test				▲																																
Production Milestones																																				
LRIP I																																				
LRIP II																																				
FRP																																				
Deliveries																																				

\* Shipboard Information Warfare (IW) migrates to PE 0304785N (Tactical Cryptologic Systems) beginning FY07.  
Schedule data for PE 0304785N included in this exhibit for presentation purposes only.











CLASSIFICATION:

EXHIBIT R4, Schedule Profile																	DATE: February 2007																			
APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT NUMBER AND NAME								PROJECT NUMBER AND NAME																								
RDT&E, N / BA 5				PE 0304785N Tactical Cryptologic Systems								2134 SHIPBOARD INFORMATION WARFARE (IW) EXPLOIT/SPECIFIC EMITTER IDENTIFICATION (SEI)																								
Fiscal Year	2005				2006				2007				2008				2009				2010				2011				2012				2013			
	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	1	2	3	4
<b>Software</b>																																				
Version 1 SW Development																																				
Version 1 SDT&E																																				
Version 1 HW Integration																																				
Version 1 Software Delivery																																				
Version 2 SW Development																																				
Version 2 HW Integration																																				
Version 2 Software Delivery																																				
Version 3 SW Development																																				
Version 3 HW Integration																																				
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Version 5 HW Integration																																				
Version 5 Software Delivery																																				
Version 6 SW Development																																				
Version 6 HW Integration																																				
Version 6 Software Delivery																																				
Product Maint. & Sustainment																																				
Maintenance Releases																																				
<b>Test &amp; Evaluation</b>																																				
<b>Milestones</b>																																				
Technical Information Meetings																																				
Developmental Testing																																				
DT-V1																																				
DT-V2																																				
DT-V3																																				
DT-V4																																				
DT-V5																																				
DT-V6																																				
<b>Development</b>																																				
<b>Milestones</b>																																				
Integration at P-3 TSC/MOC (PMA-290 effort)																																				
Integration with PARAGON / SSEE Inc E effort																																				

\* Shipboard Information Warfare (IW) migrates from PE 0604721N (Battle Group Passive Horizon Extension System) beginning FY07.  
 Schedule data for PE 0304785N included in this exhibit for presentation purposes only.

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CLASSIFICATION:

Exhibit R-4a, Schedule Detail					DATE: February 2007				
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT				PROJECT NUMBER AND NAME				
<b>RDT&amp;E, N / BA 5</b>	PE 0304785N Tactical Cryptologic Systems				2134 SHIPBOARD INFORMATION WARFARE (IW) EXPLOIT/SPECIFIC EMITTER IDENTIFICATION (SEI)				
Schedule Profile	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
SURPAS Development									
Phase 1 - Software Delivery	Q2								
Phase 2 - Software Delivery	Q4								
Phase 3 - Software Delivery		Q2							
Phase 4 - Software Delivery		Q4							
Phase 5 - Software Delivery			Q2						
Phase 6 - Software Delivery			Q4						
Software Maintenance Release			Q4	Q2	Q4	Q2	Q4	Q2	Q4
Technical Information Meeting	Q1 & Q3	Q1 & Q3	Q1 & Q3	Q1 & Q3	Q1 & Q3	Q1 & Q3	Q1 & Q3	Q1 & Q3	Q1 & Q3
Developmental Testing (DT-IIA)	Q2 & Q4	Q2 & Q4	Q2 & Q4						
Integration at TSC		Q4	Q1						
IOC at TSC			Q2						
Integration with PARAGON		Q4	Q2						
Interim PARAGON Demo		Q4							
PARAGON Demo			Q2						

\* Shipboard Information Warfare (IW) migrates from PE 0604721N (Battle Group Passive Horizon Extension System) beginning FY07. Schedule data for PE 0304785N included in this exhibit for presentation purposes only.

Exhibit R-4 Schedule Profile

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA 5</b>	PROGRAM ELEMENT NUMBER AND NAME PE 0604721N Battle Group Passive Horizon Extension System	PROJECT NUMBER AND NAME Various Congressional Increases

(U) B. Accomplishments/Planned Program

<b>9281 NAVY INTELLIGENT AGENT SECURITY MODULE</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	1.446	0.000	0.000	0.000
RDT&E Articles Quantity				

NAVY INTELLIGENT AGENT SECURITY MODULE: - Offensive Capabilities (program name recently changed to Sensing, Warning, and Response Manager (SWARM)). Funds support extending wireless support to spec 802.16 and 802.20

<b>9586 SMART SIGNAL PARSER AND ACTIONABLE INTELLIGENCE</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	1.341	0.000	0.000	0.000
RDT&E Articles Quantity				

SMART SIGNAL PARSER AND ACTIONABLE INTELLIGENCE: - Congressional Add funds are provided to develop and expand the applied Special Signal rule set and to expand the subject signal set to cover the larger number of signal types that are required. Obtain message textual data for special signal case to create template module to process new bit data; to expand the Actionable Intelligence Extractor (AIE) data mining capability to cover additional signal types and expand actionable intelligence extraction rule set that permit automated actionable intelligence extraction of other key signals of interest in the war on terror. Funding provided to expand parametric generation to include platform identification, additional source data, complete the knowledgebase development and continue knowledgebase tool development.

<b>9242 COBLU - NETWORK CENTRIC WARFARE ENHANCEMENTS</b>	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	2.693	0.000	0.000	0.000
RDT&E Articles Quantity				

Cooperative Outboard Logistics Upgrade (COBLU) - NETWORK CENTRIC WARFARE ENHANCEMENTS - The COBLU system will provide enhanced capabilities which will facilitate the integration of Control and Coordination Software that enables multiple COBLU systems to be operated remotely in compliance within the FORCEnet constructs; coordinate resources and reduce system manning; and enable the distributed operation of COBLU systems allowing operators to be remotely located at a Regional Security Operations Center (RSOC) or a COBLU operator on one platform to task and utilize a second COBLU on another platform. As part of this effort, interface software between COBLU and Distributed Information Operations - Service (DIO-S) will be provided and an at-sea technology demonstration will be conducted. Funding will be used to provide interface software between DIO-S and COBLU; and will be used to conduct an at-sea technology demonstration.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2007	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME		
RDT&E, N / BA 5	PE 0604721N Battle Group Passive Horizon Extension System	Various Congressional Increases		
<b>(U) B. Accomplishments/Planned Program</b>				
<b>9897ADVANCED TACTICAL COMMUNICATIONS INTERCEPT</b>				
	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	3.276	0.000	0.000	0.000
RDT&E Articles Quantity				
<p>ADVANCED TACTICAL COMMUNICATIONS INTERCEPT - (ACTIC) is a remote, IP based sensor system developed to provide Carrier Strike Group (CSG)/Expeditionary Strike Group (ESG) personnel access to adversary wireless communication signals and will be used for signal exploitation. Designed for shipboard use and to be carried by unmanned air vehicles and fixed wing aircraft, it will provide deployed Naval and Marine Forces with a persistent over-the horizon Signal Intelligence (SIGINT) capability under their direct operational control. Funding will accelerate development of new SIGINT capabilities for ATCIC.</p>				
<b>9898N/REMOTE SENSING AND DATA MANAGEMENT</b>				
	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	2.020	0.000	0.000	0.000
RDT&E Articles Quantity				
<p>REMOTE SENSING AND DATA MANAGEMENT - Remote Sensing and Data Management is a multiple wireless sensors which will be installed in shipping containers including video imagery, and anti-tamper devices. Sensor data will be gathered by either a handheld device or a standalone hub, and will be stored in a sensor monitoring database for analysis and display using web based technology. Funding provided to develop the hub for the on-board sensor management, and the first prototype of the web-based data-centric sensor management system.</p>				
<b>9899N/TAPERED SLOT ANTENNA</b>				
	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	1.638	0.000	0.000	0.000
RDT&E Articles Quantity	0	0	0	0
<p>TAPERED SLOT ANTENNA - A tapered slot antenna has been developed to collect modern hostile threat communications signals. The prototype was initially developed with National Security Agency (NSA) Tactical SIGINT Technology (TST) funding. Additionally needed technology upgrades have been identified to further improve antenna functionality and to enhance its ability for hostile/threat emitter detection, which will be back fitted as future engineering change proposals (ECPs) to the tapered slot antenna system. Accelerated development of these urgently needed tapered slot antenna upgrades will significantly enhance SSEE Increments E's ability to both collect and process signals for Indications and Warning (I&amp;W) more accurate cuing of sensors, improved Communications Intelligence (COMINT) and Electronics Intelligence (ELINT) signal exploitation and more timely support for Time Critical Strike operations. Additional development to the Tapered Slot Antenna will incorporate the latest advances in digital technology and provide the Navy with its first truly multi-function antenna suitable for simultaneous direction Finding (DF), signal acquisition and Information Operations (IO). Funding will provide for design and develop 20-element antenna array</p>				

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification	DATE: February 2007
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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME Various Congressional Increases
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(U) B. Accomplishments/Planned Program

9901 TREXIMILDEC TACTICAL TARGET GENERATOR SYSTEM	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	1.638	0.000	0.000	0.000
RDT&E Articles Quantity				

9901N/TREXIMILDEC TACTICAL TARGET GENERATOR SYSTEM - MILDEC Tactical Target Generator (TTG) will provide both offensive and defensive Information Operations (IO) and Military Deception (MILDEC) capabilities for military aircraft against current and future hostile air defense systems. In the offensive mode, the TTG will provide a tactical IO capability for airborne platforms to electronically stimulate hostile air defense acquisition and tracking radars so they can be detected and located by National and tactical sensors, and then be destroyed by US or coalition forces. In the defensive mode, the TTG will enable tactical airborne platforms (manned, unmanned, fixed wing or rotary) to successfully enter, transit and egress hostile territory by appearing as a non-threatening air contact. TREXIMILDEC TACTICAL TARGET GENERATOR SYSTEM: Funding provided to accelerate development and deployment of the Tactical Target Generator System.