

<b>CLASSIFICATION:</b>								
EXHIBIT R-2, RDT&E Budget Item Justification						DATE: February 2005		
APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY /</b>			BA 5		R-1 ITEM NOMENCLATURE PE 0604721N Battle Group Passive Horizon Extension System			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	16.727	29.966	18.456	17.736	16.617	16.950	17.329	17.677
2134/SHIPBOARD IW EXPLOIT	16.727	17.792	18.456	17.736	16.617	16.950	17.329	17.677
9281/NAVY INTELLIGENT AGENT SECURITY MODULE *		0.979						
9581/AIRBORNE COMMUNICATIONS INTERCEPT POD (ACIF) *		1.685						
9582 ANTI-TERRORISM TECHNOLOGY SURVEILLANCE SYSTEM *		1.090						
9584/SHIPBOARD INFORMATION WARFARE EXPLOIT *		4.261						
9585/SHIPS SIGNAL EXPLOITATION EQUIPMENT (SSEE) *		0.989						
9586/SMART SIGNAL PARSER AND ACTIONABLE INTELLIGENCE *		3.170						
Quantity of RDT&E Articles								
<p><b>U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b></p> <p>The Shipboard Information Warfare 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 SIGINT/COMINT and imagery. 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>Congressional Adds *:</p> <p>9281/NAVY INTELLIGENT AGENT SECURITY MODULE: – Offensive Capabilities (program name recently changed to Sensing, Warning, and Response Manager (SWARM)). Funds provided for 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>X9581/AIRBORNE COMMUNICATIONS INTERCEPT POD (ACIF): - Funds will support the test and evaluation of communications module; documentation; test and evaluation of additional interface capabilities for different type aircraft. Test and evaluation of antennas for airborne pod operation. The add will also provide engineering support for flight clearances and for test support engineering.</p> <p>X9582 ANTI-TERRORISM TECHNOLOGY SURVEILLANCE SYSTEM: - Funds will support Phase III SBIR to ATTSS for the development of 2 Engineering Development Models to be provided to the Mobile Inshore Undersea Warfare System Upgrade (MIUW-SU).</p>								

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<p>Congressional Adds Continued:</p> <p>X9584/SHIPBOARD INFORMATION WARFARE EXPOIT: - Funds are to develop organic ELINT collection, response, processing and integration, which will provide individual ships with an integrated and consolidated SIGINT picture of the threat battle space. This add will address the ORD requirements to provide SSEE with a tactical organic ELINT capability.</p> <p>X9585/SHIPS SIGNAL EXPLOITATION EQUIPMENT (SSEE): - Funds will provide enhancements to SSEE using commercial off the shelf hardware such as Field Programmable Gate Arrays (FPGAs). SSEE is an adaptable system that can accommodate new threat signals through software updates. Emergent signals place increased demand on system processing requirements. At the same time, opportunities exist to expand system capabilities through the use of new COTS FPGA boards to increase processing capability without increasing system cost.</p> <p>X9586/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. Obtain message textual para data for special signal case to create template module to process new bit data; to expand the 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>		

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<b>CLASSIFICATION:</b>								
EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2005	
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 IW EXPLOIT		
COST (\$ in Millions)		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010
Project Cost		16.727	17.792	18.456	17.736	16.617	16.950	17.329
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<p><b>(U) B. Accomplishments/Planned Program</b></p> <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr> <th style="width: 25%;"></th> <th style="width: 15%;">FY 04</th> <th style="width: 15%;">FY 05</th> <th style="width: 15%;">FY 06</th> <th style="width: 15%;">FY 07</th> </tr> </thead> <tbody> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td style="text-align: center;">4.000</td> <td style="text-align: center;">4.000</td> <td style="text-align: center;">2.500</td> <td style="text-align: center;">2.500</td> </tr> <tr> <td>RDT&amp;E Articles Quantity</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <p>Communications Data Link- System (CDLS)</p> <p>FY04 - Integrated advanced technology Common Data Link (CDL) modem. Continued design and development of CDLS integrated operator station, development efforts for interoperability and integration with emerging Navy sensor systems such as BAMS, F/A-18 SHARP and EP-3E Multi-int systems.</p> <p>FY05 - Design and Develop CDLS Interfaces to Phased Array Antenna Systems. Integrate and Test Cooperative Antenna Program Sub-array Assemblies. Design and develop CDLS Spiral 1 Advanced Networking Technology Insertion Kit. Continue Vendor Interoperability and Integration Testing with emerging Navy sensor systems such as BAMS, MMA, GHMD, F/A-18 SHARP, P-3C AIP, and EP-3E Multi-int systems. Design and Develop KGV-135A communications security Module. Design and Develop CDLS Interfaces with Automated Data Network System (ADNS). Develop JTRS Software Communications Architecture (SCA) Core Framework for CDLS.</p> <p>FY06 - Continue Integration and Test of Phased Array Antenna Systems sub-array assemblies. Continue Design and develop CDLS Spiral 1 Advanced Networking Technology Insertion Kit. Continue Vendor Interoperability and Integration Testing with emerging Navy sensor systems such as BAMS, MMA, GHMD, F/A-18 SHARP, P-3C AIP, and EP-3E Multi-int systems. Continue Design and Develop KGV-135A COMSEC Module. Continue Design and Develop CDLS Interfaces with ADNS. Continue Development of JTRS SCA Core Framework for CDLS.</p> <p>FY07 - Develop ECP for CDLS Spiral 1 Advanced Networking Technology Insertion Kit for KGV-135A COMSEC Module and CDLS Interfaces with ADNS. Continue Integration and Test of Phased Array Antenna Systems sub-array assemblies. Continue Vendor Interoperability and Integration Testing with emerging Navy sensor systems such as BAMS, MMA, GHMD, F/A-18 SHARP, P-3C AIP, and EP-3E Multi-int systems. Develop ECP for JTRS SCA Core Framework for CDLS.</p> <p>Note: Name change from CDL-N Block 1 to CDLS.</p> </div>						FY 04	FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost	4.000	4.000	2.500	2.500	RDT&E Articles Quantity				
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Accomplishments/Effort/Subtotal Cost	5.000	3.763	1.000															
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<p>Multi-Mission Payload (MMP)</p> <p>FY04 - Initiated System Development Phase of the remotely controlled platform independent MMP, intended for use as a pod on ship based aircraft. Awarded contracts for research and development of Engineering Development Models, EDMs. Conducted design review and perform end-to-end system engineering analysis. Performed aircraft data analysis and performed integration planning to develop the appropriate engineering design of the payload and its mechanical, electrical and environmental interface components. Determined design and interfaces of the data link equipment, which will be part of or co-located with the MMP to carry the command, control, and data exchange signals. Developed Test Plan.</p> <p>FY05 - Complete development of the EDMs pod and conduct laboratory acceptance tests. Obtain Flight Certification and complete testing. Perform the Office of Naval Intelligence, ONI, certification and accreditation for Interim Authority To Operate, IATO. Perform land-based flight tests and demonstrations.</p> <p>FY06 - Complete carrier launch qualifications and perform flight demonstrations on carrier launched aircraft.</p>																		
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RDT&E Articles Quantity																		
<p>Ship Signal Exploitation Equipment</p> <p>FY04 - Initiated P3I development of Command and Control software portion of the Hostile force Integrated Targeting Sub-system (HITS) and Time/Frequency Difference of Arrival functions into SSEE Incr E.</p> <p>FY05 - Continue with effort to improve Command and Control software portion of the HITS in SSEE Incr E. Continue to expand Signals of Interest (SOI) processing capability to priority signal sets. Fully test improved software. Initiate acquisition development for follow-on increments.</p> <p>FY06 - Continue with effort to improve Command and Control software portion of the HITS in SSEE Incr E. Continue to expand SOI processing capability to priority signal sets. Fully test improved software. Conduct Follow-On Test and Evaluation (FOT&amp;E). Modify COLT server to upgrade current software releases. Continue development and integration of Cryptologic Unified Build (CUB) software. Continue acquisition development for SSEE Inc F to support Engineering Development Models (EDM), integration, testing and remoting of manned and unmanned platforms.</p> <p>FY07 - Continue to expand SOI processing capability to priority signal sets. Fully test improved software. Modify COLT server to upgrade current software releases. Continue development and integration of CUB software. Continue acquisition development for SSEE Inc F to support Engineering Development Models (EDM), integration, testing and remoting of manned and unmanned platforms.</p> <p>Note: CUB and COLT will be migrated into SSEE Program beginning FY 06.</p>																		

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<b>RDT&amp;E, N / BA 5</b>	PE 0604721N Battle Group Passive Horizon Extension System	2134/SHIPBOARD IW EXPLOIT		
<b>(U) B. Accomplishments/Planned Program</b>				
	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	1.792	1.618	1.230	1.254
RDT&E Articles Quantity				
<p>Specific Emitter Identification (SEI)</p> <p>FY04 - Conducted independent test and evaluation and compatibility testing of SEI software and began retooling existing prototypes into a single platform, Phase II. Formalized Navy SEI data standards for improved collection and dissemination. Began integration of SEI capabilities into the Naval single platform distributed surface EW system. Continued to expand SEI database access, dissemination, and integration within the Theater Correlation Functions (TCFs) and tactical users. Continued to address SEI software operational issues to facilitate SEI tactical employment. Continued SEI software enhancements in GCCS-M (CORRUS), GALE-LITE, and other fielded systems.</p> <p>FY05 - Continue to improve SEI software Phase III to support additional tactical installations, surface combatants, and airborne platforms. Enhance the exchange of Navy SEI data. Begin incorporation of future SEI algorithms corresponding to the next generation of multi-mission combatants and changing target sets. Continue incorporation of SEI into the overall Navy EW architecture for enhanced correlation and integration into Navy single platform distributed EW systems, to include surface, subsurface, and airborne.</p> <p>FY06 - Continue 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. Enhance automation capabilities of SEI collection, processing, and reporting software. Integrate geolocation information with SEI systems. Continue incorporation of SEI into ELINT and the overall Navy EW architecture, and use of COTS hardware for SEI data extraction. Develop software enhancements in GCCS-M, GALE Lite, and other fielded systems to support next generation SEI capabilities and data types. Pursue SEI-based deinterleaving for tactical and high volume collectors. Pursue enhanced SEI algorithms and techniques.</p> <p>FY07 - Continue reprogramming of existing fielded SEI systems with new algorithms and software. Continue improvements to network based SEI data distribution and utilization. Continue SEI software enhancements to maximize automation of SEI collection &amp; reporting. Continue integration of geolocation, SEI, and other data. Continue incorporation of SEI into ELINT and the overall Navy EW architecture with the goal of SEI being absorbed into ELINT. Continue software enhancements in GCCS-M, GALE Lite, and other fielded systems to support new SEI capabilities and data types. Continue to pursue enhanced SEI algorithms and techniques, SEI-based deinterleaving, and other SEI applications.</p>				
	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	1.650	1.500	1.000	1.020
RDT&E Articles Quantity				
<p>Antenna &amp; RF Distribution</p> <p>FY04 - Implemented design goals and objectives for existing antenna and future antenna efforts via requirements analysis. Completed development of existing antenna upgrades for enhanced capability. Initiated prototype demonstration effort for future antenna design for low signature direction finding (DF) and acquisition/enhanced capability and initiation of shipboard EDM plans.</p> <p>FY05 - Update requirements analysis to maintain growing Signals of Interest (SOI) threat capability support via system radio frequency distribution (RFD) unit and future antenna upgrades. Continue development of future antenna for low signature DF and acquisition/enhanced performance.</p> <p>FY06 - Continue development of antenna &amp; radio frequency (RF) tools to enhance future capabilities via new technologies, EDM development, testing and certification.</p> <p>FY07 - Continue development of antenna &amp; RF tools to enhance future capabilities via new technologies, EDM development, testing and certification.</p>				

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

(U) Funding:	FY 2004	FY 2005	FY 2006	FY 2007
FY2005 President's Budget	16.743	17.981	18.730	16.044
FY2006 President's Budget	16.727	17.792	18.456	17.736
Total Adjustments	-0.016	-0.189	-0.274	1.692

Summary of Adjustments

Congressional Adjustments				
Congressional Rescissions		-0.167		
Reprogrammings				
Programmatic Adjustments		-0.022	-0.394	1.509
Economic Assumptions	-0.016		0.148	0.165
Pricing Adjustments			-0.028	0.018
SBIR/STTR Transfers				
Subtotal	-0.016	-0.189	-0.274	1.692

(U) Schedule:  
Not Applicable.

(U) Technical:  
Not Applicable.

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<b>(U) D. OTHER PROGRAM FUNDING SUMMARY:</b>								
<u>Line Item No. &amp; Name</u>	<u>FY 2004</u>	<u>FY 2005</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>
OPN Line 2360	119.766	68.772	62.721	77.637	64.598	86.510	96.309	83.919
 <b>(U) E. ACQUISITION STRATEGY: *</b>								
Acquisition, management and contracting strategies are to support engineering and manufacturing development by providing funds to SSC-Charleston, SSC-San Diego and miscellaneous contractors, with management oversight by SPAWAR.								

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Exhibit R-3 Cost Analysis (page 1)									DATE: February 2005			
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<b>RDT&amp;E, N / BA 5</b>			PE 0604721N Battle Group Passive Horizon Extension Sys			2134/SHIPBOARD IW EXPLOIT						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	Various	Various	39.994	3.970	12/04	5.350	12/05	6.250	12/06	Continuing	Continuing	Continuing
Ancillary Hardware Development											0.000	0.000
Systems Engineering	Various	Various	6.669	5.074		4.674		2.933		Continuing	Continuing	Continuing
Training Development	Various	Various	0.168	0.075		0.093		0.100		Continuing	Continuing	Continuing
Licenses											0.000	
Tooling											0.000	0.000
GFE											0.000	0.000
Award Fees											0.000	0.000
Subtotal Product Development			46.831	9.119		10.117		9.283		Continuing	Continuing	Continuing
Remarks:												
Development Support											0.000	0.000
Software Development	Various	Various	10.549	3.738		3.811		4.828		Continuing	Continuing	Continuing
Training Development											0.000	0.000
Integrated Logistics Support	Various	Various	0.485	0.136		0.130		0.145		Continuing	Continuing	Continuing
Configuration Management	Various	Various	0.199	0.117		0.120		0.125		Continuing	Continuing	Continuing
Technical Data											0.000	0.000
GFE											0.000	0.000
Subtotal Support			11.233	3.991		4.061		5.098		Continuing	Continuing	Continuing
Remarks:												

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Exhibit R-3 Cost Analysis (page 2)									DATE: February 2005			
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Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	Various	Various	3.927	0.927	12/04	0.868	12/05	0.680	12/06	Continuing	Continuing	Continuing
Operational Test & Evaluation	Various	Various	0.716	0.421		0.395		0.250		Continuing	Continuing	Continuing
Live Fire Test & Evaluation											0.000	0.000
Test Assets	Various	Various	0.746	0.439		0.412		0.150		Continuing	Continuing	Continuing
Tooling											0.000	0.000
GFE											0.000	0.000
Subtotal T&E			5.389	1.787		1.675		1.080		Continuing	Continuing	Continuing
Remarks:												
Contractor Engineering Support											0.000	0.000
Government Engineering Support											0.000	0.000
Program Management Support	Various	Various	5.923	2.743		2.461		2.123		Continuing	Continuing	Continuing
Travel	Various	Various	0.257	0.152		0.142		0.152		Continuing	Continuing	Continuing
Subtotal Management			6.180	2.895		2.603		2.275		0.000	13.953	0.000
Remarks:												
Total Cost			69.633	17.792	0.000	18.456	0.000	17.736	0.000	Continuing	Continuing	Continuing
Remarks:												

R-1 SHOPPING LIST - Item No. 124

## CLASSIFICATION:

EXHIBIT R4, Schedule Profile																								DATE: February 2005								
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 IW EXPLOIT/COMMUNICATIONS DATA LINK-SYSTEM (CDLS)												
Fiscal Year	2004				2005				2006				2007				2008				2009				2010				2011			
	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									MSD △				FOC △																			
Test & Evaluation Milestones																																
Development Test																																
Operational Test																																
Interoperability Testing																																
Production Milestones																																
LRIP I																																
LRIP II																																
FRP FY04																																
Deliveries																																
Development Milestones																																
Phased Array Ant Interfaces																																
Spiral 1 Design																																
Spiral 1 ECP Dev																																
JTRS SCA Core Framework																																
JTRS SCA ECP Dev																																
Vendor Interop & Int Testing																																

R-1 SHOPPING LIST - Item No. 124

**CLASSIFICATION:**

[illegible]

**CLASSIFICATION:**

[illegible]

R-1 SHOPPING LIST - Item No. 124

**CLASSIFICATION:**

[illegible]

R-1 SHOPPING LIST - Item No. 124

## CLASSIFICATION:

EXHIBIT R4, Schedule Profile																SHIPS SIGNAL EXPLOITATION EQUIPMENT INCREMENT E (SSEE Incr E)																DATE: February 2005																
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 IW EXPLOIT/SHIPS SIGNAL EXPLOITATION EQUIPMENT INCREMENT E (SSEE Incr E)																
Fiscal Year	2004				2005				2006				2007				2008				2009				2010				2011																			
	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				INC E MSD ▲	INC E IOC ▲				SSEE ▲	Inc F Award ▲	Contract ▲							INC F MSC ▲	INC F FRP ▲	INC F MSD ▲		INC F IOC ▲																										
System Development (e.g., Radar System dev.)									PDR ▲	SSR ▲	CDR ▲																																					
SSEE INC F EDMs																INC F EDMs ▲																																
Software Development	LRIP BUILD 2																Full Rate Production Build Inc E																															
SSEE Inc E																																																
LRIP Baseline SW Development																																																
FRP Baseline SW Development																																																
SSEE Inc F																																																
EDM Baseline SW Development																																																
FRP Baseline SW Development																																																

R-1 SHOPPING LIST - Item No. 124



**CLASSIFICATION:**

[illegible]

R-1 SHOPPING LIST - Item No. 124

SSEE is a spiral development program.

FY09 will introduce a future Increment with new antenna design and P3I.

CLASSIFICATION: UNCLASSIFIED//FOR OFFICIAL USE ONLY																																
EXHIBIT R4, Schedule Profile																												DATE: February 2005				
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 IW EXPLOIT/CRYPTOLOGIC UNIFIED BUILD (CUB)				
Fiscal Year	2004				2005				2006				2007				2008				2009				2010				2011			
	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																																
Software																																
4.X SW Development																																
4.X SDT&E																																
4.X System Documentation																																
4.X Software Delivery																																
4.Y SW Development																																
4.Y SDT&E																																
4.Y System Documentation																																
4.Y Software Delivery																																
Test & Evaluation Milestones																																
Development Test																																
Operational Test																																
Production Milestones																																

R-1 SHOPPING LIST - Item No. 124

**CLASSIFICATION: UNCLASSIFIED//FOR OFFICIAL USE ONLY**

[illegible]

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R-1 SHOPPING LIST - Item No. 124

**CLASSIFICATION:**

[illegible]

R-1 SHOPPING LIST - Item No. 124

## CLASSIFICATION:

EXHIBIT R4, Schedule Profile																								DATE: February 2005								
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 IW EXPLOIT/ANTENNA RF DISTRIBUTION (ARFD)																
Fiscal Year	2004				2005				2006				2007				2008				2009				2010				2011			
	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				Award Contract △																												
Prototype Phase																																
System Development								SDR △				SDR △				SDR △																
EDM Delivery Four EDMs				EDM ▲				EDM △				EDM △				EDM △																
Test & Evaluation Milestones																																
FAT			FAT ▲				FAT △				FAT △				FAT △																	
Developmental Test												DT △																				
Production Milestones																Production rolled into SSEE △																
Deliver Design Package to SSEE																																
Deliveries																																

R-1 SHOPPING LIST - Item No. 124

Prototype Phase consist of antenna performance/probability studies.

**CLASSIFICATION:**

[illegible]

R-1 SHOPPING LIST - Item No. 124

EXHIBIT R4, Schedule Profile																								DATE: February 2005								
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 IW EXPLOIT/SPECIFIC EMITTER IDENTIFICATION (SEI)								
Fiscal Year	2004				2005				2006				2007				2008				2009				2010				2011			
	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 Software Delivery	■																															
Version 3 SW Development	■																															
Version 3 Software Delivery	■																															
Version 4 SW Development	■																															
Version 4 Software Delivery	■																															
Final Build Delivery	■																															
Product Maint. & Sustainment	■																															
Maintenance Releases	■																															
<b>Test &amp; Evaluation Milestones</b>																																
Compatibility Testing																																
Compatibility Testing																																
Operational Test																																
<b>Production Milestones</b>																																
FY04																																
FY05																																
FY06																																
FY07																																
FY08																																
FY09																																
FY10																																
FY11																																
Deliveries																																
FRP																																
Deliveries																																



## CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
						February 2005		
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 IW EXPLOIT/SPECIFIC EMITTER IDENTIFICATION (SEI)			
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
SURPAS Development								
Phase 1 - Software Delivery	Q1-4							
Phase 2 - Software Delivery	Q4	Q1						
Phase 3 - Software Delivery		Q2-3						
Phase 4 - Software Delivery		Q4	Q1					
Technical Information Meeting	Q1-Q4	Q1-Q4	Q1-Q4					
Software Delivery	Q4	Q2 & Q4	Q2					
Software Maintenance Release				Q1 & Q3	Q1 & Q3	Q1 & Q3	Q1 & Q3	Q1 & Q3
Hardware/software compatibility testing	Q1-Q4	Q1-Q4	Q1-Q4	Q1-Q4	Q1-Q4	Q1-Q4	Q1-Q4	Q1-Q4
Test Readiness Review (TRR)	Q4	Q2 & Q4	Q2					
Developmental Testing (DT-IIA)	Q1-Q4	Q1-Q4	Q1-Q2					
Logistics								
Operational Testing (OT-IIA)	Q4	Q2 & Q4	Q2					
Start Low-Rate Initial Production I (LRIP I)			Q3					
IOC			Q3					

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<b>CLASSIFICATION:</b>								
EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2005	
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 9581/AIRBORNE COMMUNICATIONS INTERCEPT POD (ACIF)		
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	0.000	1.685	0.000	0.000	0.000	0.000	0.000	0.000
RDT&E Articles Qty								
<p><b>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b></p> <p>AIRBORNE COMMUNICATIONS INTERCEPT POD (ACIF): - Funds will support the test and evaluation of communications module; documentation; test and evaluation of additional interface capabilities for different type aircraft. Test and evaluation of antennas for airborne pod operation. The add will also provide engineering support for flight clearances and for test support engineering.</p>								

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2005		
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 9581/AIRBORNE COMMUNICATIONS INTERCEPT POD (ACIF)		
<b>(U) B. Accomplishments/Planned Program</b>				
	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost		1.685		
RDT&E Articles Quantity				
<p>X9581/AIRBORNE COMMUNICATIONS INTERCEPT POD (ACIF): - Funds will support the test and evaluation of communications module; documentation; test and evaluation of additional interface capabilities for different type aircraft. Test and evaluation of antennas for airborne pod operation. The add will also provide engineering support for flight clearances and for test support engineering.</p>				

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## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: <div style="text-align: right;">February 2005</div>
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	9581/AIRBORNE COMMUNICATIONS INTERCEPT POD (ACIF)

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

	FY 2004	FY 2005	FY 2006	FY 2007
(U) Funding:				
FY2005 President's Budget	0.000	0.000	0.000	0.000
FY2006 President's Budget	0.000	1.685	0.000	0.000
Total Adjustments	0.000	1.685	0.000	0.000
Summary of Adjustments				
Congressional Increase		1.700		
Congressional Rescissions		-0.015		
Subtotal	1.685			

(U) Schedule:  
Not Applicable.

(U) Technical:  
Not Applicable.

R-1 SHOPPING LIST - Item No. 124

**CLASSIFICATION:**

Exhibit R-3 Cost Analysis (page 1)

DATE:

February 2005

APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT

PROJECT NUMBER AND NAME

**RDT&E, N / BA 5**

PE 0604721N Battle Group Passive Horizon Extension Sys 9581/AIRBORNE COMMUNICATIONS INTERCEPT POD (ACIF)

Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development										Continuing	Continuing	Continuing
Ancillary Hardware Development												
Systems Engineering												
Training Development												
Licenses												
Tooling												
GFE												
Award Fees												
Subtotal Product Development												

Remarks:

Development Support												
Software Development												
Training Development												
Integrated Logistics Support												
Configuration Management												
Technical Data												
GFE												
Subtotal Support												

Remarks:

<b>CLASSIFICATION:</b>												
Exhibit R-3 Cost Analysis (page 2)										DATE: February 2005		
APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT				PROJECT NUMBER AND NAME				
RDT&E, N / BA 5				PE 0604721N Battle Group Passive Horizon Extension Sys				9581/AIRBORNE COMMUNICATIONS INTERCEPT POD (ACIF)				
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	CPFF	Sensytech		1.348								
Operational Test & Evaluation												
Live Fire Test & Evaluation												
Test Assets												
Tooling												
GFE												
Subtotal T&E				1.348								
Remarks:												
Contractor Engineering Support												
Government Engineering Support												
Program Management Support	Various	Various		0.169								
Travel	Various	Various		0.168								
Subtotal Management				0.337								
Remarks:												
Total Cost				1.685								
Remarks:												

R-1 SHOPPING LIST - Item No. 124

<b>CLASSIFICATION:</b>								
EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2005	
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 9582 ANTI-TERRORISM TECHNOLOGY SURVEILLANCE SYSTEM		
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	0.000	1.090	0.000	0.000	0.000	0.000	0.000	0.000
RDT&E Articles Qty								
<p><b>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b></p> <p>AIRBORNE COMMUNICATIONS INTERCEPT POD (ACIF): - Funds will support the test and evaluation of communications module; documentation; test and evaluation of additional interface capabilities for different type aircraft. Test and evaluation of antennas for airborne pod operation. The add will also provide engineering support for flight clearances and for test support engineering.</p>								

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE: <b>February 2005</b>																
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 9582 ANTI-TERRORISM TECHNOLOGY SURVEILLANCE SYSTEM																	
<b>(U) B. Accomplishments/Planned Program</b>																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"></td> <td style="width: 15%; text-align: center;">FY 04</td> <td style="width: 15%; text-align: center;">FY 05</td> <td style="width: 15%; text-align: center;">FY 06</td> <td style="width: 15%; text-align: center;">FY 07</td> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td></td> <td style="text-align: center;">1.090</td> <td></td> <td></td> </tr> <tr> <td>RDT&amp;E Articles Quantity</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <div style="border: 1px solid black; height: 250px; margin-top: 10px; padding: 10px;"> <p>X9582 ANTI-TERRORISM TECHNOLOGY SURVEILLANCE SYSTEM: - Funds will support Phase III SBIR to ATTSS for the development of 2 Engineering Development Models to be provided to the Mobile Inshore Undersea Warfare System Upgrade (MIUW-SU).</p> </div>						FY 04	FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost		1.090			RDT&E Articles Quantity				
	FY 04	FY 05	FY 06	FY 07															
Accomplishments/Effort/Subtotal Cost		1.090																	
RDT&E Articles Quantity																			

R-1 SHOPPING LIST - Item No. 124



## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: <div style="text-align: right;">February 2005</div>
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	9582 ANTI-TERRORISM TECHNOLOGY SURVEILLANCE SYSTEM

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

(U) Funding:	FY 2004	FY 2005	FY 2006	FY 2007
FY2005 President's Budget	0.000	0.000	0.000	0.000
FY2006 President's Budget	0.000	1.090	0.000	0.000
Total Adjustments	0.000	1.090	0.000	0.000
Summary of Adjustments				
Congressional Increase		1.100		
Congressional Rescissions		-0.010		
Subtotal	1.090			

(U) Schedule:  
Not Applicable.

(U) Technical:  
Not Applicable.

**CLASSIFICATION:**

Exhibit R-3 Cost Analysis (page 1)								DATE: February 2005				
APPROPRIATION/BUDGET ACTIVITY <b>RDTE&amp;E, N / BA 5</b>			PROGRAM ELEMENT PE 0604721N Battle Group Passive Horizon Extension System					PROJECT NUMBER AND NAME 9582 ANTI-TERRORISM TECHNOLOGY SURVEILLANCE SYSTEM				
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development										Continuing	Continuing	Continuing
Ancillary Hardware Development												
Systems Engineering	CPFF	Promia, San Diego, CA		0.400								
Training Development												
Licenses												
Tooling												
GFE												
Award Fees												
Subtotal Product Development				0.400								
Remarks:												
Development Support												
Software Development	Various	Various		0.500								
Training Development												
Integrated Logistics Support												
Configuration Management												
Technical Data												
GFE												
Subtotal Support				0.500								
Remarks:												

R-1 SHOPPING LIST - Item No. 124

<b>CLASSIFICATION:</b>												
Exhibit R-3 Cost Analysis (page 2)									DATE: February 2005			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT						PROJECT NUMBER AND NAME			
RDT&E, N / BA 5			PE 0604721N Battle Group Passive Horizon Extension System						9582 ANTI-TERRORISM TECHNOLOGY SURVEILLANCE SYSTEM			
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation												
Operational Test & Evaluation												
Live Fire Test & Evaluation												
Test Assets												
Tooling												
GFE												
Subtotal T&E												
Remarks:												
Contractor Engineering Support												
Government Engineering Support												
Program Management Support	Various	Various		0.190								
Travel												
Subtotal Management				0.190								
Remarks:												
Total Cost				1.090								
Remarks:												

R-1 SHOPPING LIST - Item No. 124

<b>CLASSIFICATION:</b>								
EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2005	
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 9584/SHIPBOARD INFORMATION WARFARE EXPOIT		
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	0.000	4.261	0.000	0.000	0.000	0.000	0.000	0.000
RDT&E Articles Qty								
<p><b>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b></p> <p>SHIPBOARD INFORMATION WARFARE EXPOIT: - Funds are to develop organic Electronic Intelligence (ELINT) collection, response, processing and integration, which will provide individual ships with an integrated and consolidated SIGINT picture of the threat battle space. This add will address the ORD requirements to provide SSEE with a tactical organic ELINT capability.</p>								

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE: <b>February 2005</b>	
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 9584/SHIPBOARD INFORMATION WARFARE EXPOIT		
<b>(U) B. Accomplishments/Planned Program</b>				
	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost		4.261		
RDT&E Articles Quantity				
<div style="border: 1px solid black; min-height: 200px; margin-top: 10px;"> <p>X9584/SHIPBOARD INFORMATION WARFARE EXPOIT: - Funds are to develop organic ELINT collection, response, processing and integration, which will provide individual ships with an integrated and consolidated SIGINT picture of the threat battle space. This add will address the ORD requirements to provide SSEE with a tactical organic ELINT capability.</p> </div>				

R-1 SHOPPING LIST - Item No. 124

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2005		
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	9584/SIPBOARD INFORMATION WARFARE EXPOIT		
<b>(U) C. PROGRAM CHANGE SUMMARY:</b>				
(U) Funding:	FY 2004	FY 2005	FY 2006	FY 2007
FY2005 President's Budget	0.000	0.000	0.000	0.000
FY2006 President's Budget	0.000	4.261	0.000	0.000
Total Adjustments	0.000	4.261	0.000	0.000
Summary of Adjustments				
Congressional Increase		4.300		
Congressional Rescissions		-0.039		
Subtotal				
		4.261		
(U) Schedule:				
Not Applicable.				
(U) Technical:				
Not Applicable.				

**CLASSIFICATION:**

Exhibit R-3 Cost Analysis (page 1)								DATE: February 2005				
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA 5</b>				PROGRAM ELEMENT PE 0604721N Battle Group Passive Horizon Extension System				PROJECT NUMBER AND NAME 9584/SHIPBOARD INFORMATION WARFARE EXPOIT				
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development										Continuing	Continuing	Continuing
Ancillary Hardware Development												
Systems Engineering	FFP	ARGON, Fairfax, VA		1.278	02/05							
Training Development												
Licenses												
Tooling												
GFE												
Award Fees												
Subtotal Product Development				1.278								
Remarks:												
Development Support												
Software Development	FFP	ARGON, Fairfax, VA		1.492	02/05							
Training Development												
Integrated Logistics Support	FFP	ARGON, Fairfax, VA		0.426	02/05							
Configuration Management	FFP	ARGON, Fairfax, VA		0.213	02/05							
Technical Data												
GFE												
Subtotal Support				2.131								
Remarks:												

<b>CLASSIFICATION:</b>												
Exhibit R-3 Cost Analysis (page 2)									DATE: February 2005			
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA 5</b>				PROGRAM ELEMENT PE 0604721N Battle Group Passive Horizon Extension System					PROJECT NUMBER AND NAME 9584/SHIPBOARD INFORMATION WARFARE EXPOIT			
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	FFP	ARGON, Fairfax, VA		0.426	02/05							
Operational Test & Evaluation												
Live Fire Test & Evaluation												
Test Assets												
Tooling												
GFE												
Subtotal T&E				0.426								
Remarks:												
Contractor Engineering Support												
Government Engineering Support												
Program Management Support	FFP	ARGON, Fairfax, VA		0.426	02/05							
Travel												
Subtotal Management				0.426								
Remarks:												
Total Cost				4.261								
Remarks:												

R-1 SHOPPING LIST - Item No. 124



<b>CLASSIFICATION:</b>								
EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2005	
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 9586/SMART SIGNAL PARSER AND ACTIONABLE INTELLIGENCE		
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	0.000	3.170	0.000	0.000	0.000	0.000	0.000	0.000
RDT&E Articles Qty								
<p><b>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b></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. Obtain message textual para data for special signal case to create template module to process new bit data; to expand the 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>								

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2005	
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 9586/SMART SIGNAL PARSER AND ACTIONABLE INTELLIGENCE		
<b>(U) B. Accomplishments/Planned Program</b>				
	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost		3.170		
RDT&E Articles Quantity				
<div style="border: 1px solid black; min-height: 200px; margin-top: 10px;"> <p>X9586/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. Obtain message textual para data for special signal case to create template module to process new bit data; to expand the 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> </div>				

R-1 SHOPPING LIST - Item No. 124

**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification		DATE:	February 2005	
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	9586/SMART SIGNAL PARSER AND ACTIONABLE INTELLIGENCE		
(U) C. PROGRAM CHANGE SUMMARY:				
(U) Funding:	FY 2004	FY 2005	FY 2006	FY 2007
FY2005 President's Budget	0.000	0.000	0.000	0.000
FY2006 President's Budget	0.000	3.170	0.000	0.000
Total Adjustments	0.000	3.170	0.000	0.000
Summary of Adjustments				
Congressional Increase		3.200		
Congressional Rescissions		-0.030		
Subtotal		3.170		
(U) Schedule:				
Not Applicable.				
(U) Technical:				
Not Applicable.				

**CLASSIFICATION:**

Exhibit R-3 Cost Analysis (page 1)								DATE: February 2005				
APPROPRIATION/BUDGET ACTIVITY <b>RDTE&amp;E, N / BA 5</b>				PROGRAM ELEMENT PE 0604721N Battle Group Passive Horizon Extension System				PROJECT NUMBER AND NAME 9586/SMART SIGNAL PARSER AND ACTIONABLE INTELLIGENCE				
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development										Continuing	Continuing	Continuing
Ancillary Hardware Development												
Systems Engineering	Various	Various		1.043	02/05							
Training Development												
Licenses												
Tooling												
GFE												
Award Fees												
Subtotal Product Development				1.043								
Remarks:												
Development Support												
Software Development	Various	Various		1.557	02/05							
Training Development												
Integrated Logistics Support												
Configuration Management												
Technical Data												
GFE												
Subtotal Support				1.557								
Remarks:												

R-1 SHOPPING LIST - Item No. 124

<b>CLASSIFICATION:</b>												
Exhibit R-3 Cost Analysis (page 2)									DATE: February 2005			
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA 5</b>				PROGRAM ELEMENT PE 0604721N Battle Group Passive Horizon Extension System					PROJECT NUMBER AND NAME 9586/SMART SIGNAL PARSER AND ACTIONABLE INTELLIGENCE			
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	Various	Various		0.150	02/05							
Operational Test & Evaluation												
Live Fire Test & Evaluation												
Test Assets												
Tooling												
GFE												
Subtotal T&E				0.150								
Remarks:												
Contractor Engineering Support												
Government Engineering Support												
Program Management Support	Various	Various		0.400	02/05							
Travel	Various	Various		0.020	02/05							
Subtotal Management				0.420								
Remarks:												
Total Cost				3.170								
Remarks:												

R-1 SHOPPING LIST - Item No. 124