

<b>CLASSIFICATION:</b>								
EXHIBIT R-2, RDT&E Budget Item Justification							DATE: <b>May 2009</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY /</b>				<b>BA 7</b>		R-1 ITEM NOMENCLATURE 0204575N Electronic Warfare (EW) Readiness Support		
COST (\$ in Millions)	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
Total PE Cost	<b>34.959</b>	<b>24.206</b>	<b>37.524</b>					
2263 Information Warfare Systems	<b>34.959</b>	<b>24.206</b>	<b>37.524</b>					
Quantity of RDT&E Articles	<b>2</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<p><b>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b></p> <p>The key focus areas include Information Operations (IO) Mission Management, Electronic Attack (EA), and Computer Network Operations.</p> <p>IO Mission Management: Develops software to account for antenna modeling, weather calculations, Radio Frequency (RF) modeling, signals mapping and terrain modeling for warfighter use in configuring optimal Electronic Attacks from afloat. Develops command and control mechanism for remote use of Electronic Attack assets to include frequency, antenna alignment and weapon firing data transfer. Develops a modeling and simulation laboratory for the program office to use in the development, intended effect, and risk reduction of new EA capabilities.</p> <p>EA: Develops and fields spiral EA capabilities against Fleet Forces Command prioritized signals and target sets. EA capabilities will be integrated into a software architecture baseline that is deployed on subsurface, airborne and surface IO platforms (Classic Troll, Banshee and SSEE-Inc E/ F). Also included is the Navy's investment in ICADS proof of concept system.</p> <p>Computer Network Operations (CNO): Funds development and testing of adversary target networks for modeling, simulation, and tailoring of CNO capabilities. Develops specific CNO capabilities to be used against adversary networks. Supports Electronic Target Folder database which provides a means of sharing and storing common CNO data. Studies unique adversary CNO vulnerabilities for exploitation. (Specific development details held at a higher classification level.)</p> <p>This program received a Ballistic Missile Defense/High Value Units (BMD/HVU) and Red Flash increase which will provide additional or enhanced IO capabilities to enable OPLANs and support Major Combat Operations (MCO) scenarios. This effort leverages and continues the development of Computer Network Attack (CNO) capabilities and also provides for the delivery of two MCS21 mobile/ground components. (Specific development/capability details are held at a higher classification level.)</p>								

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<b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY /</b>		<b>BA 7</b>	0204575N Electronic Warfare (EW) Readiness Support
<b>B. Program Change Summary</b>			
Funding:	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>
FY09 President's Budget	33.779	24.276	29.552
FY10 OSD Submit	34.959	24.206	37.524
Total Adjustments	1.180	-0.070	7.972
Summary of Adjustments:			
Misc/Rate Adjustments		-0.070	-0.837
Program Adjustments	1.180		8.809
	1.180	-0.070	7.972
Schedule: N/A			
Technical: N/A			

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EXHIBIT R-2a, RDT&E Project Justification								DATE: May 2009	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7			PROGRAM ELEMENT NUMBER AND NAME 0204575N Electronic Warfare (EW) Readiness Support				PROJECT NUMBER AND NAME Information Warfare/ 2263		
COST (\$ in Millions)			FY 2008	FY 2009	FY 2010				
Project Cost- IO Mission Management			5.580	3.468	4.832				
RDT&E Articles Qty			N/A	N/A	N/A				

**A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:**

FY2008 Accomplishments  
 (2.6) – RF modeling architecture integration  
 (1.4) – IO Mission Management Remote Control  
 (0.1) – Antenna Modeling (Applied/projected level of effort)  
 (0.3) – Terrain Modeling (Applied/projected level of effort)  
 (1.1) – Modeling & Simulation Lab (Applied/projected level of effort)

FY2009 Plans  
 (1.6) – RF modeling architecture integration  
 (0.7) – IO Mission Management Remote Control  
 (0.0) – Antenna Modeling (Applied/projected level of effort)  
 (0.1) – Terrain Modeling (Applied/projected level of effort)  
 (1.0) – Modeling & Simulation Lab (Applied/projected level of effort)

FY2010 Plans  
 (2.8) – RF modeling architecture integration  
 (0.7) – IO Mission Management Remote Control  
 (0.1) – Antenna Modeling (Applied/projected level of effort)  
 (0.2) – Terrain Modeling (Applied/projected level of effort)  
 (1.0) – Modeling & Simulation Lab (Applied/projected level of effort)

In FY08 IO Mission management funded integration onto a new, web-based architecture, reflecting an increase in funding.

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>			PROGRAM ELEMENT NUMBER AND NAME 0204575N Electronic Warfare (EW) Readiness Support				PROJECT NUMBER AND NAME Information Warfare/ 2263		
COST (\$ in Millions)			FY 2008	FY 2009	FY 2010				
Project Cost- Electronic Attack			<b>10.445</b>	<b>10.644</b>	<b>19.118</b>				
RDT&E Articles Qty			<b>N/A</b>	<b>N/A</b>	<b>N/A</b>				
<p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION</p> <p>FY2008 Accomplishments</p> <ul style="list-style-type: none"> <li>(5.0) - EA Systems Development (Details held at higher classification level)</li> <li>(1.3) - EA antenna development - Prototype delivery of Photonics antenna</li> <li>(2.2) - IW/IO EA capability development (Details held at higher classification level)</li> <li>(0.2) - Testing</li> <li>(1.7) - ICADS (Details held at higher classification level)</li> </ul> <p>FY2009 Accomplishments</p> <ul style="list-style-type: none"> <li>(5.4) - EA Systems Development (Details held at higher classification level)</li> <li>(1.3) - EA antenna development - Spiral capability upgrade delivery of Photonics antenna</li> <li>(1.5) - IW/IO EA capability development (Details held at higher classification level)</li> <li>(0.2) - Testing</li> <li>(2.2) - ICADS (Details held at higher classification level)</li> </ul> <p>FY2010 Plans</p> <ul style="list-style-type: none"> <li>(12.6) - EA Systems Development (Details held at higher classification level)</li> <li>(0.8) - EA antenna development - Spiral capability upgrade delivery of Photonics antenna</li> <li>(5.1) - IW/IO EA capability development (Details held at higher classification level)</li> <li>(0.6) - Testing</li> </ul>									

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>			PROGRAM ELEMENT NUMBER AND NAME 0204575N Electronic Warfare (EW) Readiness Support				PROJECT NUMBER AND NAME Information Warfare/ 2263		
COST (\$ in Millions)			FY 2008	FY 2009	FY 2010				
Project Cost- Computer Network Operations			<b>16.396</b>	<b>7.387</b>	<b>9.659</b>				
RDT&E Articles Qty			<b>N/A</b>	<b>N/A</b>	<b>N/A</b>				
<b>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b>									
FY2008 Accomplishments									
(0.5) – Navy IO Architecture									
(2.5) – Tactical IO Initiatives - Complete assessments initial prototypes									
(11.7) – Computer Network Attack Capabilities Development (Details held at higher classification level)									
(1.0) – CNO for Maritime Domain Awareness									
(0.6) – Contractor Engineering Support									
FY2009 Plans									
(0.0) – Navy IO Architecture									
(0.9) - Electronic Target Folder Development									
(6.0)– Computer Network Attack Capabilities Development (Details held at higher classification level)									
(0.5) - Contractor Engineering Support									
FY2010 Plans									
(0.7) – Navy IO Architecture									
(1.1) – Integrate CNO capabilities into MCS21 Architecture									
(6.3)– Computer Network Attack Capabilities Development (Details held at higher classification level)									
(1.2 - Demonstration of Advanced Computer Network Operations Concept (Details held at higher classification level)									
(0.3) – Contractor Engineering Support									

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>			PROGRAM ELEMENT NUMBER AND NAME 0204575N Electronic Warfare (EW) Readiness Support				PROJECT NUMBER AND NAME Information Warfare/ 2263		
COST (\$ in Millions)			FY 2008	FY 2009	FY 2010				
Project Cost: Research & Analysis			<b>2.538</b>	<b>2.707</b>	<b>3.915</b>				
RDT&E Articles Qty			<b>N/A</b>	<b>N/A</b>	<b>N/A</b>				
<b>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b>									
<p>FY2008 Accomplishments                      (0.3) – Completion and continuation of several Systems (reverse) Engineering projects (Details held at higher classification level)                      (2.2) – Continued Research &amp; Analysis (Details held at higher classification level)</p> <p>FY2009 Plans                      (0.5) – Contractor Engineering Support                      (2.2) – Continue Research &amp; Analysis (Details held at higher classification level)</p> <p>FY2010 Plans                      (1.0) – Contractor Engineering Support                      (3.0) – Continue Research &amp; Analysis (Details held at higher classification level)</p>									

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EXHIBIT R-2a, RDT&E Project Justification		DATE:	May 2009
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N / BA-7	0204575N Electronic Warfare (EW) Readiness Support	Information Warfare/ 2263	

**B. OTHER PROGRAM FUNDING SUMMARY:**

<u>Line Item No. &amp; Name</u>	<u>FY2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
0604270N/Z1742	7.661	5.426	4.991
OMN Line 4A1M	60.239	34.255	33.575

**C. ACQUISITION STRATEGY:**

NIOC Suitland programs are designated non-ACAT and operate under streamlined acquisition as designated by the ASN(RDA). This designation supports a streamlined acquisition process using the Advanced Concept Technology Demonstration (ACTD) documentation of the Defense Acquisition Guidance.

**D. MAJOR PERFORMERS:**

<u>Name</u>	<u>Location</u>	<u>Description of Work Performed</u>	<u>Award Date</u>		
			<u>FY08</u>	<u>FY09</u>	<u>FY10</u>
Argon ST	Fairfax, VA	EA Systems Development	1Q FY08	1Q FY09	1Q FY10
L3 Communications	Reston, VA	Mission Management Development	1Q FY08	1Q FY09	1Q FY10
ARL Penn State University	State College, PA	Modeling & Simulation	1Q FY08	1Q FY09	1Q FY10
Naval Research Laboratory	Washington, DC	Research & Analysis	1Q FY08	1Q FY09	1Q FY10
		EA Systems Development	1Q FY08	1Q FY09	1Q FY10
NAWC/WD	China Lake, CA	IO Test Development & Support	1Q FY08	1Q FY09	1Q FY10

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Exhibit R-3 Cost Analysis (page 1)										DATE: <b>May 2009</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>			PROGRAM ELEMENT 0204575N				PROJECT NUMBER AND NAME Information Warfare/ 2263			
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date			
Primary Hardware Development	Various	Various	12.263	2.165	02/00	3.100				
Ancillary Hardware Development	Various	Various	7.400	1.750	Various	2.100	Various			
Systems Engineering	Various	Various		2.165	02/00	2.000				
Systems Engineering										
Licenses										
Tooling										
GFE										
Award Fees							Various			
Subtotal Product Development			19.663	6.080	Various	7.200				
Development Support	Various	Various	7.748	2.050	Various	4.320	Various			
Software Development	Various	Various	55.512	13.209	Various	18.791	Various			
Training Development										
Integrated Logistics Support										
Configuration Management										
Technical Data										
GFE										
Subtotal Support			63.260	15.259		23.111				

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Exhibit R-3 Cost Analysis (page 2)										DATE: <b>May 2009</b>	
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME				
<b>RDT&amp;E, N / BA-7</b>			0204575N				Information Warfare/ 2263				
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date				
Developmental Test & Evaluation	Various	Various	4.151	0.160	02/00	0.664	Various				
Operational Test & Evaluation											
Live Fire Test & Evaluation					02/00						
Test Assets											
Tooling											
GFE											
Subtotal T&E	Various	Various	4.151	0.160	Various	0.664	Various				
Research, Studies and Vul Anal	Various	Various	4.950	2.207	10/08	3.079	10/09				
Contractor Engineering and Program Management Support	Various	Various	0.400	0.500	10/08	3.470	10/09				
Subtotal Management	Various	Various	5.350	2.707	Various	6.549	Various				
Total Cost	Various	Various	92.424	24.206	Various	37.524	Various	0.000	Various	Continuing	Continuing

CLASSIFICATION:

EXHIBIT R4, Schedule Profile																	DATE: May 2009											
APPROPRIATION/BUDGET ACTIVITY					PROGRAM ELEMENT NUMBER AND NAME								PROJECT NUMBER AND NAME															
RDT&E, N / BA-7					0204575N Electronic Warfare (EW) Readiness Support								Information Warfare/ 2263															
Fiscal Year	2008				2009				2010																			
	1	2	3	4	24.21 24.21	37.52 37.52	3	4	1	2	3	4																
<b>Acquisition Milestones</b>																												
Prototype EA System Development FAT																												
Mission Mgmt Software FAT																												
Segment A on GCCS-M 4.1 Segment A&B on SOA continued development																												
EA capability software dev Lighthouse Delivery																												
Computer Network Operations Capabilities Development Counter-Anti Ship Maritime Domain Awareness																												
ACNA Del. A Study 1 Delivery MDA Cell IOC																												
ACNA Del. B Study 2 Delivery																												
FIOC Del.																												
<b>Test &amp; Evaluation Milestones</b>																												
Surface IO capabilities DT Airborne IO capabilities MCS-21 IO capabilities EA Prototype System																												
DT AC4 AC5 AC6 FOT&E DT DT DT																												
<b>Production Milestones</b>																												
N/A																												

Note: EA Software deliveries will be integrated into existing programs of record on surface, subsurface and airborne platforms to include SSEE-Inc E/F, Classic Troll and Banshee.

