

Exhibit R-2, RDT&E Budget Item Justification									Date: February 2003	
APPROPRIATION/BUDGET ACTIVITY RDT&E,N /7					R-1 ITEM NOMENCLATURE 0204575N Information Warfare					
COST (\$ in Millions)	FY 02	FY 03	FY 04	FY05	FY 06	FY 07	FY 08	FY 09	Cost to Complete	Total Cost
Information Warfare/Z2263	4.411	14.789	11.678	12.201	9.944	8.849	9.015	9.179	Cont.	Cont.
Quantity of RDT&E Articles	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-----	-----
A. Mission Description and Budget Item Justification										
The Naval Information Warfare Activity (NIWA) serves as the Program Manager for the Offensive Information Warfare (IW) program. As such, NIWA is tasked as the Navy's principal technical agent to research, assess, develop, and prototype IW capabilities. The key focus is to provide tactical commanders with both an IW Mission Planning, Analysis and Command and Control Targeting System (IMPACTS) tool and state-of-the-art Electronic Attack (EA) hardware and software. This project will continue with the development and integration of EA systems (e.g., USQ-146) onto various platforms through the out-years. Ongoing software efforts are to identify and develop IW planning and execution tools, as well as computer network operations capabilities. In addition, NIWA is responsible for the management of the Navy Vulnerability Assessment Counter-Measures program (NVACM), which assesses information systems in the design phase to ensure security confidence/integrity of fielded capabilities.										
B. Program Change Summary:										
	FY02	FY03	FY04	FY05						
PB03	4.6	6.2	6.7	7.2						
PB04	4.4	14.8	11.7	12.2						
Total Adjustments	-0.2	+8.6	+5.0	+5.0						
Cost of War		+9.0								
Inflation/Misc. Adjustments		-0.4	-0.3	0.0						
Sponsor Adjustment			+1.4	+1.1						
Transfer to Project Z2462			+3.9	+3.9						
Sponsor adjustment is for NVACM – Navy Vulnerability Assessment Countermeasures FY04/05 funds to be transferred to project Z2462 in 2QFY03										

Exhibit R-2a, RDT&E Project Justification									Date: February 2003	
APPROPRIATION/BUDGET ACTIVITY RDT&E,N /7			PROGRAM ELEMENT 0204575N		PROJECT NAME AND NUMBER Information Warfare/Z2263					
Cost (\$ in Millions)	FY 02	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	Cost to Complete	Total Cost
Project Cost	4.411	14.789	11.678	12.201	9.944	8.849	9.015	9.179	Cont.	Cont.
RDT&E Articles Qty	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	----	----

A. Mission Description and Budget Item Justification:

The Naval Information Warfare Activity (NIWA) serves as the Program Manager for the Offensive Information Warfare (IW) program. As such, NIWA is tasked as the Navy's principal technical agent to research, assess, develop, and prototype IW capabilities. The key focus is to provide tactical commanders with both an IW Mission Planning, Analysis and Command and Control Targeting System (IMPACTS) tool and state-of-the-art Electronic Attack (EA) hardware and software. This project will continue with the development and integration of EA systems (e.g., USQ-146) onto various platforms through the out-years. Ongoing software efforts are to identify and develop IW planning and execution tools, as well as computer network operations capabilities. In addition, NIWA is responsible for the management of the Navy Vulnerability Assessment Counter-Measures program (NVACM), which assesses information systems in the design phase to ensure security confidence/integrity of fielded capabilities.

B. Accomplishments/Planned Program

Cost (\$ in Millions)	<u>FY02</u>	<u>FY03</u>	<u>FY04</u>	<u>FY05</u>
IMPACTS	3.1	2.8	2.8	2.8
Electronic Attack	1.3	10.1	1.0	1.5
Computer Net Operations	0.0	1.5	1.5	1.5
Navy IO	0.0	0.0	0.7	0.7
Program Office Support	0.0	0.4	0.4	0.4
NVACM	0.0	0.0	1.4	1.4
Transfer to Z2462			3.9	3.9

IMPACTS: Convert IMPACTS/GCCS-M software (e.g., RFMP and CM+) operating system formats and support laboratory and shipboard tests of converted software. Continue transition to PC based software in addition to current, UNIX based Graphical User Interface (GUI). Institute a Federated Object Model (FOM) into all IW mission planning support software. Initiate/expand inclusion of EMPIRE, RFMP, C2WC, CM+ into Mission Planning Manager.

Electronic Attack: Continued design of EA systems (e.g., USQ-146) for integration onto various platforms. The program has also provided carry-on Electronic Support Measures (ESM) systems for deploying battle groups, supported USMC Mobile Electronic Warfare System (MEWS) evaluation and adoption of USQ-146 and (Joint Special Operations Command) JSOC evaluation of modified USQ-146 in a helicopter.

Computer Network Operations: Provide manpower, operational command and control, operating funds and state of the art computer hardware and

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software to rapidly integrate Computer Network Operations (CNO) concepts and capabilities into Navy fleet and shore operations.										
<u>Navy Information Operations (IO), Architecture, Training and Data Management</u> : Provides focus in 3 primary functional areas of IO: Electronic Warfare (EW); Computer Network Operations (CNO); and Perception Management (PM). The timely development of the Navy IO architecture is key to the alignment of Navy IO with Fleet Operational requirements and the Navy Strategic Planning Guidance (NSPG).										
<u>Navy Vulnerability Assessment Counter-Measures program (NVACM)</u> : Assesses information systems in the design phase to ensure security confidence/integrity of fielded capabilities. This primarily includes: Automated Vulnerability Analysis Support Tool (AVAST) development and implementation and mobile computing vulnerability assessment tools.										
C. Other Program Funding Summary										
	<u>FY02</u>	<u>FY03</u>	<u>FY04</u>	<u>FY05</u>	<u>FY06</u>	<u>FY07</u>	<u>FY08</u>	<u>FY09</u>	<u>To Complete</u>	<u>Total Cost</u>
OMN Line 4A6M			0.4	1.0	1.0	1.0	1.0	1.0		
OMN Line 4B7N	2.2	2.3	2.5	2.6	2.7	2.8	2.8	2.9	CONT.	CONT.
OPN 234000/6	2.9	4.7	4.2	4.0	3.9	4.0	4.1	4.2	CONT.	CONT.
D. Acquisition Strategy: N/A.										
E.. Major Performers:										
SAIC – Arlington, VA			IW Mission Planning, Analysis and Command and Control Targeting System Integration (IMPACTS)							
Naval Air Warfare Center – China Lake			Electronic Attack system integration and development							
SPAWAR Systems Center – Charleston			Electronic Attack system integration and development							
SPAWAR Systems Center – San Diego			Electronic Attack system integration and development							
Rockwell International - Cedar rapids, IA			Electronic Attack system integration and development							
Argon Engineering – Fairfax, VA			Electronic Attack system integration and development							

Exhibit R-3 Cost Analysis										Date: February 2003		
RDT&E,N/7				Program Element: 0204575N						Information Warfare/Z2263		
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY03 Cost	FY03 Award Date	FY04 Cost	FY04 Award Date	FY05 Cost	FY05 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Primary Hardware Development	Var	Var	0.996	8.734	Var	2.049	Var	2.242	Var	Cont.	Cont.	
Subtotal Product Development			0.996	8.734	Var	2.049	Var	2.242	Var	Cont.	Cont.	
Development Support	Var	Var	1.079	1.905	Var	1.979	Var	2.034	Var	Cont.	Cont.	
Software Development	Var	Var	1.901	2.000	Var	2.000	Var	2.100	Var	Cont.	Cont.	
Subtotal Support			2.980	3.905	Var	3.979	Var	4.134	Var	Cont.	Cont.	
Remarks												

Exhibit R-3 Cost Analysis									Date: February 2003			
RDT&E,N/7				Program Element: 0204575N					INFORMATION WARFARE/Z2263			
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY03 Cost	FY03 Award Date	FY04 Cost	FY04 Award Date	FY05 Cost	FY05 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	Var	Var	0.000	0.400	Var	0.650	Var	0.700	Var	Cont.	Cont.	
Subtotal T&E			0.000	0.400	Var	0.650	Var	0.700	Var	Cont.	Cont.	
Remarks												
AIS Support	Var	Var	0.000	0.150	Var	0.100	Var	0.100	Var	Cont.	Cont.	
Government Engineering Support	Var	Var	0.185	0.750	Var	0.450	Var	0.525	Var	Cont.	Cont.	
Program Management Support	Var	Var	0.250	0.850	Var	0.550	Var	0.600	Var	Cont.	Cont.	
Subtotal Management			0.435	1.750	Var	1.100	Var	1.225	Var	Cont.	Cont.	
Transfer to Z2462						3.900		3.900				
Remarks												
Total Cost			4.411	14.789	Var	11.678	Var	12.201	Var	Cont.	Cont.	
Remarks												