

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification							DATE:	
							February 2006	
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-5				0604574N / NAVY TACTICAL COMPUTER RESOURCES				
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost		\$8.169	\$6.487	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
1353 Standard Hardware		\$6.196	\$2.187	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
9579 Compact Ultra Fast Laser System Development		\$1.973						
9999 Congressional Adds			\$4.300					
Defense Emergency Response Funds (DERF) : Not applicable.								
A. Mission Description and Budget Item Justification: The AN/UYQ-70(V) program must incorporate state-of-the-art Commercial-off-the-Shelf/Open System Architecture (COTS/OSA) technological improvements continuously and rapidly, in order to meet rapidly evolving future customer requirements. The AN/UYQ-70(V) program provides the de facto standard for state-of-the-art commercial-off-the-shelf (COTS) processors and displays for all mission-essential/mission-critical combat systems, weapons systems, self-defense systems, command and control systems, and communications systems utilized in all USN combatants. The Q-70 product baseline continues to require increased capability in order to satisfy the needs of future FORCENET network-centric Open Architecture combat system designs. This funding also supports the continuing spiral development of Q-70 and Common Enterprise Display System (CEDS), which will be the standard display system for all new combat systems on all new ship designs. This CEDS development will incorporate vastly improved HSI (Human Systems Interface) characteristics, and migration to full Open Architecture Computing Environment (OACE) requirements.								
**FY05 includes two Congressional Adds totaling 6.0M								

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EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2006	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604574N / NAVY TACTICAL COMPUTER RESOURCES			PROJECT NUMBER AND NAME; 1353/Standard Hardware 9579 Compact Ultra Fast Laser System Development			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	8.169	6.487	0.000	0.000	0.000	0.000	0.000
RDT&E Articles Qty							

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

A. Mission Description and Budget Item Justification: The AN/UYQ-70(V) program must incorporate state-of-the-art Commercial-off-the-Shelf/Open System Architecture (COTS/OSA) technological improvements continuously and rapidly, in order to meet rapidly evolving future customer requirements. The AN/UYQ-70(V) program provides the de facto standard for state-of-the-art commercial-off-the-shelf (COTS) processors and displays for all mission-essential/mission-critical combat systems, weapons systems, self-defense systems, command and control systems, and communications systems utilized in all USN combatants. The Q-70 product baseline continues to require increased capability in order to satisfy the needs of future FORCENET network-centric Open Architecture combat system designs. This funding also supports the continuing spiral development of Q-70 and Common Enterprise Display System (CEDS) which will be the standard display system for all new combat systems on all new ship designs. This CEDS development will incorporate vastly improved HSI (human systems interface) characteristics, and migration to full Open Architecture Computing Environment (OACE) requirements.

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006												
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604574N / NAVY TACTICAL COMPUTER RESOURCES	PROJECT NUMBER AND NAME; 1353/Standard Hardware 9579 Compact Ultra Fast Laser System Development												
B. Accomplishments/Planned Program														
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;"></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;">6.196</td><td style="text-align: center;">2.187</td><td style="text-align: center;">0.000</td></tr><tr><td>RDT&E Articles Quantity</td><td></td><td></td><td></td></tr></tbody></table>				FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost	6.196	2.187	0.000	RDT&E Articles Quantity			
	FY 05	FY 06	FY 07											
Accomplishments/Effort/Subtotal Cost	6.196	2.187	0.000											
RDT&E Articles Quantity														
<div style="border: 1px solid black; padding: 5px; min-height: 100px;"><p>FY2005 Plan: Preparation and commencement of Common Enterprise Display System (CEDS) development contract. Congressional Add of \$4.0M to continue Technology Insertion efforts on Q-70 production contract.</p><p>FY2006 Plan: Continue CEDS development.</p><p>FY2007 Plan: Continue CEDS development.</p></div>														
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;"></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;">1.973</td><td style="text-align: center;">0.000</td><td style="text-align: center;">0.000</td></tr><tr><td>RDT&E Articles Quantity</td><td></td><td></td><td></td></tr></tbody></table>				FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost	1.973	0.000	0.000	RDT&E Articles Quantity			
	FY 05	FY 06	FY 07											
Accomplishments/Effort/Subtotal Cost	1.973	0.000	0.000											
RDT&E Articles Quantity														
<div style="border: 1px solid black; padding: 5px; min-height: 100px;"><p>FY 2005 Plan: FY05 Congressional Add for development of High Energy Laser.</p><p>FY 2006 Plan: None</p><p>FY2007 Plan: None</p></div>														
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EXHIBIT R-2a, RDT&E Project Justification							DATE:		
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APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME				
RDT&E, N / BA-5		0604574N / NAVY TACTICAL COMPUTER RESOURCES			9579 / Compact Ultra Fast Laser System Development				
D. OTHER PROGRAM FUNDING SUMMARY:									
Line Item No. & Name	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost
Other Program Funding Summary									
Related RDT&E									
PE 0603382N (ADV COMBAT SYS TECHNOLOGY)	61.474	29.705	12.380	22.552	23.213	23.897	25.853		
PE 0603502N (SHALLOW WATER MCM)	97.892	118.682	130.265	131.401	127.034	194.089	246.993		
PE 0604307N (AEGIS WEAPON SYS MODS)	148.939	228.932	189.929	209.153	217.909	242.600	268.203		
PE 0604366N (STD MSL IMP)	110.568	148.532	186.016	221.583	237.085	159.352	67.405		
PE 0604755N (SHIP SELF DEFENSE)	68.193	56.642	10.044	6.266	5.440	0.743	0.138		
PE 0604503N SSN-688/TRIDENT MOD	65.521	62.102	59.777	64.761	67.660	64.384	76.525		
PE 0604561N SSN-21 DEVELOPMENT	2.966	2.878	3.260	2.708	2.756	2.912	2.960		
PE 0604562N SUB TACT WARFARE SYS	46.389	46.024	51.656	53.578	54.681	55.945	57.081		
F. MAJOR PERFORMERS:									
N/A									

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604574N / NAVY TACTICAL COMPUTER RESOURCES	PROJECT NUMBER AND NAME; 1353/Standard Hardware 9579 / Compact Ultra Fast Laser System Development	
C. PROGRAM CHANGE SUMMARY:			
Funding:	FY 2005	FY 2006	FY 2007
FY 2006 President's Budget:	8.298	2.220	2.701
FY 2007 Budget Estimate	8.169	2.187	0.000
Total Adjustments	-0.129	-0.033	-2.701
Summary of Adjustments			
Other General Provisions	-0.129	-0.033	-2.713
Inflation			0.012
Subtotal	-0.129	-0.033	-2.701
Technical:			
N/A			

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Exhibit R-3 Cost Analysis (page 1)								DATE: February 2006				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT PROJECT NUMBER AND NAME; 1353/Standard Hardware									
RDT&E, N / BA-5			0604574N / NAVY TACTICA 9579 / Compact Ultra Fast Laser System Development									
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	195.500							195.500	195.500	
Ancillary Hardware Development	Various	Various	0.650							0.650	0.650	
Component Development										0.000	0.000	
Ship Integration										0.000	0.000	
Ship Suitability										0.000	0.000	
Systems Engineering	CPFF	Lockheed Martin		3.859	Various	0.000	10/05	0.000		Continuing	Continuing	
Systems Engineering	WX	NSWC/Crane		0.021	02/05	0.695	10/05	0.000		Continuing	Continuing	
Systems Engineering	WX	NSWC/PHD		0.091	02/05	0.130	10/05	0.000		Continuing	Continuing	
Systems Engineering	WX	NSWC/Dahlgren		0.338	02/05	1.011	10/05	0.000		Continuing	Continuing	
Systems Engineering	WX	NUWC/Newport		0.100	02/05	0.000	10/05	0.000		Continuing	Continuing	
Systems Engineering	Various	Various	82.222	1.787	Various	0.351	10/05	0.000		Continuing	Continuing	
Training Development			1.000							1.000	1.000	
Licenses			1.000							1.000	1.000	
Tooling										0.000	0.000	
GFE										0.000	0.000	
Award Fees										0.000	0.000	
Subtotal Product Development			280.372	6.196		2.187		0.000		Continuing	Continuing	
Remarks:												
Development Support	CPFF	Lockheed Martin	1.000	1.973						Continuing	Continuing	
Software Development	Various	Various	40.009							Continuing	Continuing	
Training Development	Various	Various	1.575							Continuing	Continuing	
Integrated Logistics Support	Various	Various	2.472							Continuing	Continuing	
Configuration Management	Various	Various	2.620							Continuing	Continuing	
Technical Data	Various	Various	1.338							Continuing	Continuing	
GFE										0.000	0.000	
Award Fees										0.000	0.000	
Subtotal Support			49.014	1.973		0.000		0.000		Continuing	Continuing	
Remarks:												

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Exhibit R-3 Cost Analysis (page 2)								DATE: February 2006				
APPROPRIATION/BUDGET ACTIVITY RD&E, N / BA-5			PROGRAM ELEMENT PROJECT NUMBER AND NAME; 1353/Standard Hardware 0604574N / NAVY TACTICA 9579 / Compact Ultra Fast Laser System Development									
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	26.300	0.000		0.000		0.000		Continuing	Continuing	Continuing
Operational Test & Evaluation	Various	Various	18.428	0.000		0.000		0.000		Continuing	Continuing	Continuing
Live Fire Test & Evaluation												
Test Assets												
Tooling												
GFE												
Award Fees												
Subtotal T&E			44.728	0.000		0.000		0.000		Continuing	Continuing	
Remarks:												
Government Engineering Services												
Program Management Support			1.000	0.000		0.000		0.000		Continuing	Continuing	
Subtotal Management			1.000	0.000		0.000		0.000		Continuing	Continuing	
Total Cost			375.114	8.169		2.187		0.000		Continuing	Continuing	
Remarks:												

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Exhibit R-2, RDTEN Budget Item Justification
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EXHIBIT R4, Schedule Profile																				DATE: February 2006								
APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-5										PROGRAM ELEMENT NUMBER AND NAME 0604574N / NAVY TACTICAL COMPUTER RESOURCES										PROJECT NUMBER AND NAME; 1353/Standard Hardware 9579 / Compact Ultra Fast Laser System Development								
Fiscal Year	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

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* Not required for Budget Activities 1, 2, 3, and 6

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2006
APPROPRIATION/BUDGET ACTIVITY RDTE, N / BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604574N / NAVY TACTICAL COMPUTER RESOURCES	PROJECT NUMBER AND NAME:VARIOUS CONGRESSIONAL PLUS-UPS
B. CONGRESSIONAL PLUS-UPS:		
	FY 06	
1353C	4.300	
Q-70 Systems Technology Improvements		
FY 2006 Plan: FY06 Congressional Add will allow for Q-70 System Technology Improvements.		

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