

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE				
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-7						0204571N, CONSOLIDATED TRAINING SYSTEMS				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2013	
Total PE Cost	45.875	19.085	6.987	19.971	22.275	25.471	25.888	26.366		
0604 TRNG RANGE & INST DEV (TRID)	2.617	2.959	1.312	3.884	4.313	4.108	4.180	4.256		
1427 SURFACE TACTICAL TEAM TRAINER (STTT)	5.682	5.445	.402	5.884	5.900	6.002	6.056	6.154		
2124 AIR WARFARE TRAINING DEVEP	1.408	1.681	1.735	1.781	1.821	1.858	1.892	1.928		
3087 TOTAL SHIP TRAINING SYSTEM	19.490			5.391	4.810	4.321	4.405	4.494		
3093 TACTICAL COMBAT TRAINING SYSTEM (TCTS).	15.711	7.705	3.538	3.031	5.431	9.182	9.355	9.534		
9999 CONGRESSIONAL ADDS	0.967	1.295								

(U) A. MISSION DESCRIPTION AND BUDGET ITEM

JUSTIFICATION: 0604 - The Training Range and Instrumentation Development Systems (TRIDS) program provides development of range systems including a range

electronic warfare simulator, advanced weapons training systems, laser training systems, Tactical Aircrew Combat Training System (TACTS), Large Area Tracking Range (LATR), and Training Enabling Architecture (TENA) interoperability, combat training system improvements, and undersea warfare range technology (previously called shallow water range technology).

1427/3093/3093C - The Surface Tactical Team Trainer (STTT) develops Battle Force Tactical Training (BFTT) system capabilities and interfaces to provide realistic combat system coordinated Team, Unit, and collective Strike Group/Force level training events using Distributed Interactive Simulation (DIS) protocols. The Total Ship Training System (TSTS) is a Pre-Planned Program Improvement (P3) to the BFTT system that facilitates evolving combat system interfaces, implements High Level Architecture (HLA) and common modeling for future interoperability and integrates advanced technology and open design required for future combat systems. TSTS supports the future readiness elements of Sea Power 21 addressed in the Naval Transformation Roadmap dated October 2002. FY06 Congressional Add provided to analyze requirements, design, develop, and deliver functional Training Management System prototypes with related documentation for elements of TSTS.

2124 - The Air Warfare Training Development (AWTD) program provides technology development for aviation training systems, including mission rehearsal simulation technologies and the Aviation Training Technology Integration Facility (ATTIF).

3093 - The Tactical Combat Training System (TCTS) will provide the Navy a replacement for the TACTS and LATR systems. TCTS will also provide fleet deployable instrumentation for at sea training and tactics development. By providing a rangeless capability, the system will greatly increase the area where live instrumented training can be conducted. Initial fielding of a Non-Developmental Item (NDI) Pod system at NAS Key West is complete. The program incorporates evolutionary development (incremental) towards a system capable of supporting a broad spectrum of naval platforms through weapons simulations, participant weapons system stimulation, open architecture, and a high capacity/long range secure datalink.

B. PROGRAM CHANGE SUMMARY

Funding:	FY 2006	FY 2007	FY 2008	FY 2009
Previous President's Budget:	43.615	17.857	21.874	20.425
Current BES:	45.875	19.085	6.987	19.971
Total Adjustments	2.260	1.228	-14.887	-0.454
Summary of Adjustments				
Congressional Reductions	-1.000			
Congressional Undistributed Reductions	-0.825	-0.072		
Congressional Increases		1.300		
Economic Assumptions	0.012		0.087	0.245
Program Adjustments	4.073		-14.974	-0.699
Subtotal	2.260	1.228	-14.887	-0.454

EXHIBIT R-2, RDT&E Budget Item Justification		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-7	R-1 ITEM NOMENCLATURE 0204571N, CONSOLIDATED TRAINING SYSTEMS	

Schedule:
TRIDS CHANGES:

LATR - LATR/TCTS tech transfer now starts in 4th quarter 2006 (vice 3rd quarter 2009) at a low level as risk mitigation to evolving TCTS interfaces and development. Block upgrades 5.1 through 6.3 slipped 6 months each as upgrade yearly cycle was delayed due to range interface additions, test asset availability and delays in obtaining range Authority To Operate (ATO).

EW Processor – Have limited schedule up to IOC - continued development based on Fleet requirements.

RADS Upgrades – Previously identified as Radar Display Subsystem. IOC completed early in 2005. Semi-annual upgrades will occur 1st and 3rd quarters of every year through 1st quarter 2009. R-4 displays PDR, CDR, DEV, and T&E for each baseline upgrade evolution.

Link 16 TACTS Dev – Previously Link 16 TACTS Integration. Delay start in 2006 then expected as a result of gathering information and identifying Fleet requirements. One quarter slip in IOC date due to schedule delays.

ASOC Upgrades - Semi-annual upgrades will occur 1st and 3rd quarters of every year through 1st quarter 2010. R-4 displays PDR, CDR, DEV, and T&E for each baseline upgrade evolution.

JDS (Joint Display Subsystem) Upgrades - Previously JDS IOC. Semi-annual upgrades will occur 1st and 3rd quarters of every year through 1st quarter 2009. I have shown PDR, CDR, DEV, and T&E for each baseline upgrade evolution.

Test Set Rehost – Complete 2005

TCTS CHANGES:

The following have been made to better reflect program status and MDA APBA Chg 3.

From	To
Acquisition Milestones	
Phase 2 MS C FY06 4Q	Phase 2 MS C FY07 3Q
Phase 2 MSC delays due to IS Environmental Testing.	

Test & Evaluation Milestones

Phase 1(NDI) DTC1-2/DT Assist FY06 1Q	Phase 1(NDI) DTC1-2/ DT Assist FY06 2Q
Phase 2 DTB2-1, 2-2A, 2B, FY06 3Q-4Q	Phase 2 Internal Subsystem (IS) DTB2-1, 2-2A, 2B FY06 3Q-4Q FY07 1Q-2Q
Rack-Mounted Subsystem (RS) DTB3-2 FY07 2Q	Rack-Mounted Subsystem (RS) 2-5 FY07 4Q, FY08 1Q

CVW-5 DTC 2-4/ OTC 2-1 FY07 3Q	System: CVW-5 DTD 2-4 FY07 4Q
Fixed Range DTB 3-4/OTC 3-1 (OPEVAL) FY07 3Q	Fixed Range DTD 2-6/DTD 2-7 FY08 1Q

Production Milestones

Deliveries	
CVW-5 FY07 3Q	FY08 1Q
Yuma FY07 4Q	FY08 2Q

AWTD Schedule:

The R-4 was revised to more clearly show: 1. The overall requirement of AWTD across the FYDP for Risk Mitigation, and Technology Transition(top row). 2. Transitions to major programs such as NASMP, MH-60R, and MMA (second row). 3. Major project categories to be prototyped and tested in the ATTIF (third row). 4. The two major task performance areas are specification and government software development (rows 4 and 5). 5. Test and Evaluation of the prototype technologies. Some intermediate milestones/activities from the previous Schedule R-4 have been included in the roll-up for clarity.

Transition Milestones

FM:	TO:
FY06 1Q	FY06 4Q
FY07 1Q	FY07 1Q

EXHIBIT R-2, RDT&E Budget Item Justification		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-7		R-1 ITEM NOMENCLATURE 0204571N, CONSOLIDATED TRAINING SYSTEMS

Deployable SIMS (DMT/ Sensor capable) changed to Deployable SIMS – small footprint, DMT, Sensor-capable – more accurate description

FY07 4Q	FY07 BLANK
FY08 4Q	FY08 BLANK
FY09 4Q	FY09 BLANK
FY10 4Q	FY10 BLANK
FY11 BLANK	FY11 4Q
FY12	FY12 4Q
FY13	FY13 4Q

Technical: Not Applicable

EXHIBIT R-2a, RDT&E Project Justification						DATE:			
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME				
RDT&E,N / BA-7		0204571N, CONSOLIDATED TRAINING SYSTEMS			0604, TRNG RANGE & INST DEV (TRID)				
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
0604 TRNG RANGE & INST DEV (TRID)		2.617	2.959	1.312	3.884	4.313	4.108	4.180	4.256
RDT&E Articles Qty									

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This project develops specialized instrumentation systems for fleet readiness training while minimizing life cycle costs. Tasks include development of the following: electronic warfare simulators and associated subsystems, target control systems, Tactical Aircrew Combat Training System (TACTS), Large Area Tracking Range (LATR) improvements, Test and Training Enabling Architecture (TENA) interoperability, combat training systems improvements, underwater technology, ranges interoperability and information architecture, and assorted Advanced Weapons Training Systems (AWTS), such as Imaging Weapons Training System (IWTS), Remote Strafe Scoring System (RSSS), and weapon and countermeasure simulations for use with various range training systems.

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	1.492	1.568	.853	2.991
RDT&E Articles Qty				

LATR: Designed, integrated and tested modules to eliminate obsolete components in the LATR Pod. Completed design, integration and test of LATR software 5.0 baseline upgrade. Complete design, integration, and test of participant instrumentation packages (PIP) modules to address obsolescence, high failure components and to improve operability and performance. Conduct and complete installation of the Ground System Rehost. Conduct and complete security testing and assessment for LATR system certification and accreditation for Ground System Rehost. Complete development, test and integration of software and hardware modifications to system test sets. Develop interface software using Test and Training Enabling Architecture (TENA) to increase Tactical Training Range systems interoperability with other services training instrumentation. Continue development of LATR rotary wing re-size and LATR Datalink emulator.

	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	1.125	1.391	.459	.893
RDT&E Articles Qty				

TACTS: Developed additional training capabilities for the personal computer based Joint Display Subsystem (JDS) and the Electronic Warfare Processor (EW PROC). Enhance capability for Advanced Systems Operator Console (ASOC), enhanced Radar Display Subsystem (RADS), and ancillary systems interfaces. Continued development and deployment of LINK 16 interface for TTR applications. Complete Semi-annual CCS Block upgrades.

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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-7	0204571N, CONSOLIDATED TRAINING SYSTEMS	0604, TRNG RANGE & INST DEV (TRID)	

C. OTHER PROGRAM FUNDING SUMMARY:	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Cost
Related OPN (LATR)	3.148	0.237								3.385

D. ACQUISITION STRATEGY: The Training Range and Instrumentation Development (TRID) program is a non-ACAT program. The integrated program teams that develop new TRID capabilities include government and contractor engineering personnel.

Exhibit R-3 Cost Analysis (page 1)										DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-7			PROGRAM ELEMENT 0204571N, CONSOLIDATED TRAINING SYSTEMS				PROJECT NUMBER AND NAME 0604, TRNG RANGE & INST DEV (TRID)					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract
PRODUCT DEVELOPMENT												
Sys Eng/Software/Hardware Deve	VARIOUS	VARIOUS	86.226	1.391	VARIOUS	.459	VARIOUS	.893	VARIOUS		87.969	
Systems Eng	VARIOUS	NAWCAD, PATUXENT RIVER MD	1.334	.676	VARIOUS	.203	VARIOUS	1.152	VARIOUS		3.365	
Systems Eng	VARIOUS	VARIOUS	.400	.692	VARIOUS	.175	VARIOUS	.265	VARIOUS		1.532	
Systems Eng	SS FFP	TYBRIN Corporation, Ridgecrest, CA				.275	TBD	1.345	TBD		1.620	1.620
SUBTOTAL PRODUCT DEVELOPMENT			87.960	2.759		1.112		3.655			94.486	

Remarks:

SUPPORT												
Develop Support Equip		TBD										
Software Development	VARIOUS	VARIOUS	10.451								10.451	
Software Development	VARIOUS	NAWCWD, PT MUGU CA	.100	.025	VARIOUS		VARIOUS	.025	VARIOUS		.150	
SUBTOTAL SUPPORT			10.551	.025				.025			10.601	

Remarks:

TEST & EVALUATION												
SUBTOTAL TEST & EVALUATION			5.299								5.299	

Remarks:

MANAGEMENT												
Management	VARIOUS	TBD	2.166	.175	VARIOUS	.200	VARIOUS	.204	VARIOUS	16.857	17.525	
SUBTOTAL MANAGEMENT			2.166	.175		.200		.204		16.857	17.525	

Remarks:

Total Cost			105.976	2.959		1.312		3.884		16.857	127.911	
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Remarks:

CLASSIFICATION:

EXHIBIT R4, Schedule Profile																								DATE:								
APPROPRIATION/BUDGET ACTIVITY																								PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME				
RDT&E,N / BA-7																								0204571N, CONSOLIDATED TRAINING SYSTEMS				0604, TRNG RANGE & INST DEV (TRID)				
Fiscal Year	FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 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
Acquisition Milestones																																
EW Processor																																
PDR																																
CDR																																
DEV																																
T&E																																
IOC																																

CLASSIFICATION:

EXHIBIT R4, Schedule Profile																								DATE:								
APPROPRIATION/BUDGET ACTIVITY																								PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME				
RDT&E,N / BA-7																								0204571N, CONSOLIDATED TRAINING SYSTEMS				0604, TRNG RANGE & INST DEV (TRID)				
Fiscal Year	FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 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
RADS Upgrades																																
PDR	█				█				█				█				█															
CDR	█				█				█				█				█															
DEV	█				█				█				█				█															
T&E	█				█				█				█				█															
Semi-Annual Blk Upgrades																																
Link 16 TACTS Dev																																
PDR					█																											
CDR					█																											
DEV					█				█				█																			
T&E					█				█				█																			
IOC													█																			
ASOC Upgrades																																
PDR	█				█				█				█				█															
CDR	█				█				█				█				█															
DEV	█				█				█				█				█															
T&E	█				█				█				█				█															
Semi-Annual Blk Upgrades																																
JDS Upgrades																																
PDR	█				█				█				█				█															
CDR	█				█				█				█				█															
DEV	█				█				█				█				█															
T&E	█				█				█				█				█															
Semi-Annual Blk Upgrades																																

CLASSIFICATION:

EXHIBIT R4, Schedule Profile																								DATE:								
APPROPRIATION/BUDGET ACTIVITY																								PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME				
RDT&E,N / BA-7																								0204571N, CONSOLIDATED TRAINING SYSTEMS				0604, TRNG RANGE & INST DEV (TRID)				
LATR																																
Fiscal Year	FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 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
LATR GPS UPGRADE	█		▲																													
LATR ADIU UPGRADE	█		▲																													
LATR LRWS REHOST	█						▲																									
LATR RECERTIFICATION	█																															
LATR RW RESIZE			█																													
LATR R-3 EMULATOR	█																															
BLOCK 5.1 UPGRADE	█		▲																													
BLOCK 6.0				█																												
BLOCK 6.3																█																
LATR/TCTS TECH XFER				█																												

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Exhibit R-4a, Schedule Detail						DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-7	PROGRAM ELEMENT 0204571N, CONSOLIDATED TRAINING SYSTEMS				PROJECT NUMBER AND NAME 0604, TRNG RANGE & INST DEV (TRID)			
Schedule Profile	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
TACTS								
EW Processor								
PDR	2Q	4Q						
CDR	3Q		1Q					
DEV	4Q	1Q-3Q	2Q-3Q					
T&E		3Q	4Q					
IOC		4Q		1Q				

Exhibit R-4a, Schedule Detail					DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT				PROJECT NUMBER AND NAME			
RDT&E,N / BA-7	0204571N, CONSOLIDATED TRAINING SYSTEMS				0604, TRNG RANGE & INST DEV (TRID)			
Schedule Profile	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
TACTS								
RADS Upgrades								
PDR	1Q, 3Q-4Q	1Q-2Q, 3Q-4Q	1Q-2Q, 3Q-4Q	1Q-2Q, 3Q-4Q				
CDR	1Q-2Q, 4Q	2Q, 4Q	2Q, 4Q	2Q, 4Q				
DEV	2Q, 4Q	1Q, 2Q-3Q, 4Q	1Q, 2Q-3Q, 4Q	1Q, 2Q-3Q, 4Q	1Q			
T&E	2Q-3Q	1Q, 3Q	1Q, 3Q	1Q, 3Q	1Q			
Semi-Annual Blk Upgrades	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q			
Link 16 TACTS Dev								
PDR	3Q-4Q							
CDR	4Q	1Q						
DEV		1Q-4Q	1Q-4Q					
T&E			4Q	1Q				
IOC				1Q				
ASOC Upgrades								
PDR	1Q, 3Q-4Q	1Q-2Q, 3Q-4Q	1Q-2Q, 3Q-4Q	1Q-2Q, 3Q-4Q				
CDR	1Q-2Q, 4Q	2Q, 4Q	2Q, 4Q	2Q, 4Q				
DEV	2Q, 4Q	1Q, 2Q-3Q, 4Q	1Q, 2Q-3Q, 4Q	1Q, 2Q-3Q, 4Q	1Q			
T&E	2Q-3Q, 4Q	1Q, 2Q-3Q, 4Q	1Q, 2Q-3Q, 4Q	1Q, 2Q-3Q, 4Q	1Q			
Semi-Annual Blk Upgrades	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q			
JDS Upgrades								
PDR	1Q, 3Q-4Q	1Q-2Q, 3Q-4Q	1Q-2Q, 3Q-4Q					
CDR	1Q-2Q, 4Q	2Q, 4Q	2Q, 4Q					
DEV	2Q, 4Q	1Q, 2Q-3Q, 4Q	1Q, 2Q-3Q, 4Q	1Q				
T&E	2Q-3Q, 4Q	1Q, 2Q-3Q, 4Q	1Q, 2Q-3Q, 4Q	1Q				
Semi-Annual Blk Upgrades	1Q-4Q	1Q-4Q	1Q-4Q	1Q				

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2007	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7	PROGRAM ELEMENT NUMBER AND NAME 0204571N Consolidated Training Systems Development				PROJECT NUMBER AND NAME 1427 Surface Tactical Team Trainer (STTT) (1427/3087)			
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	25.172	5.445	0.402	11.275	10.710	10.323	10.461	10.648
RDT&E Articles Qty	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<p>*Includes project units 1427/3087</p> <p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>The Battle Force Tactical Training (BFTT) Program provides realistic joint warfare training across the spectrum of armed conflict; realistic unit level team training in all warfare areas; a means to link ships together which are in different homeports for coordinated training; external stimulation of shipboard training systems; and simulation of non-shipboard forces. BFTT uses a distributed architecture, integrating existing training systems, and uses Distributed Interactive Simulation (DIS) protocols. BFTT provides ships' Commanding Officers and Battle Group/Battle Force Commanders with the ability to conduct coordinated realistic, high stress, combat system level team training as an integral part of the Afloat Training Organizations, the Tactical Training Groups and C2F/C3F Fleet Synthetic Training Exercises (FSTs). BFTT provides a baseline capability/system that meets the Operational Requirements Document (ORD).</p> <p>The Total Ship Training System (TSTS) Combat System Trainer (CST) enhancement to BFTT shall employ a spiral development process to allow continuous incremental implementation of core training system functionality and critical warfighting training capabilities in multiple mission areas as prioritized by the Fleet. TSTS will improve upon the current BFTT DIS interoperability limitations and model databases by developing the requisite architecture and associated computer programs to facilitate the transition to HLA and common modeling, scenario generation and control and assessment. Migration to TSTS is required to ensure continued, persistent Fleet Synthetic Training (FST) interoperability. TSTS will integrate existing and emergent onboard training and assessment system capabilities to simulate realistic, "train like you fight", combat-like conditions across combat systems, engineering, damage control and navigation systems. It shall provide a continuous shipboard organic learning environment interoperable with NCTE through On-Demand, Just In Time (JIT), scenario-driven, Objective Based Training (OBT), and mission rehearsal capabilities initially available in port, and ultimately underway and in-theater.</p>								

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7	PROGRAM ELEMENT NUMBER AND NAME 0204571N Consolidated Training Systems Development	PROJECT NUMBER AND NAME 1427 Surface Tactical Team Trainer (STTT) (1427/3087)																	
B. Accomplishments/Planned Program																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">BATTLE FORCE TACTICAL TRAINING (BFTT)</th> <th style="width: 15%;">FY 06</th> <th style="width: 15%;">FY 07</th> <th style="width: 15%;">FY 08</th> <th style="width: 15%;">FY 09</th> </tr> </thead> <tbody> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td>5.682</td> <td>5.445</td> <td>0.402</td> <td>5.884</td> </tr> <tr> <td>RDT&E Articles Quantity</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table>					BATTLE FORCE TACTICAL TRAINING (BFTT)	FY 06	FY 07	FY 08	FY 09	Accomplishments/Effort/Subtotal Cost	5.682	5.445	0.402	5.884	RDT&E Articles Quantity	N/A	N/A	N/A	N/A
BATTLE FORCE TACTICAL TRAINING (BFTT)	FY 06	FY 07	FY 08	FY 09															
Accomplishments/Effort/Subtotal Cost	5.682	5.445	0.402	5.884															
RDT&E Articles Quantity	N/A	N/A	N/A	N/A															
<p>K1427: Develops conjunctive Battle Force Tactical Training (BFTT) System improvements and interface upgrades in response to evolving combat system capabilities. Responds to Fleet prioritized Training Systems capabilities in multiple mission areas including Anti-Submarine Warfare, Electronic Warfare, Air Warfare, Strike Warfare, Ballistic Missile Defense, Anti-Surface Warfare, and Amphibious Warfare. Efforts include architecture migration, model database improvement, scenario development, system/software engineering, program management, safety assessment, software design, software development, and system integration, test and evaluation, logistics support and life cycle sustainment planning. Reduction in FY08 significantly mimimizes development of system improvements/interface updgades directly affecting the ability to conduct unit level training for crew and battle group FST events in FY08.</p>																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">TOTAL SHIP TRAINING SYSTEM (TSTS)</th> <th style="width: 15%;">FY 06</th> <th style="width: 15%;">FY 07</th> <th style="width: 15%;">FY 08</th> <th style="width: 15%;">FY 09</th> </tr> </thead> <tbody> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td>19.490</td> <td></td> <td></td> <td>5.391</td> </tr> <tr> <td>RDT&E Articles Quantity</td> <td>NA</td> <td>NA</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table>					TOTAL SHIP TRAINING SYSTEM (TSTS)	FY 06	FY 07	FY 08	FY 09	Accomplishments/Effort/Subtotal Cost	19.490			5.391	RDT&E Articles Quantity	NA	NA	N/A	N/A
TOTAL SHIP TRAINING SYSTEM (TSTS)	FY 06	FY 07	FY 08	FY 09															
Accomplishments/Effort/Subtotal Cost	19.490			5.391															
RDT&E Articles Quantity	NA	NA	N/A	N/A															
<p>K3087: Develops the Total Ship Training System (TSTS) Baselines 1.0, 1.1 and 2.0 as well as the completely redesigned, re-architected, and enhanced Combat System Trainer (CST) enhancement to BFTT. TSTS training elements include Navigation Seamanship & Shiphandling, Engineering, Damage Control Training & Management, Naval Gunfire Support, Augmented Reality Fire Fighting, Anti-Submarine Warfare, Command and Control, Air Warfare, Strike Warfare, Ballistic Missile Defense, Anti-Surface Warfare, Amphibious Warfare and the Scalable Shore Based Trainer (SSBT) LCS component. TSTS efforts include scenario development, knowledge management, common environment system/software engineering, technical system design, software design, safety assessment, program management, software development, system integration, test and evaluation and logistics support. Prototypes of the various TSTS hardware and software subsystems, including the LCS Simulators, will be designed and documented in a design specification. Reductions in FY07 and FY08 considerably reduce the scope of TSTS. Current funds will focus primarily upon completion of the first combat system spiral (TSTS Baseline 1.0) and the initial planning for the second and third spirals (Baseline 1.1 and 2.0).</p>																			

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7			PROGRAM ELEMENT NUMBER AND NAME 0204571N Consolidated Training Systems Development			PROJECT NUMBER AND NAME 1427 Surface Tactical Team Trainer (STTT) (1427/3087)				
C. OTHER PROGRAM FUNDING SUMMARY:										
<u>Line Item No. & 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>	<u>To Complete</u>	<u>Total Cost</u>
42400 Weapon Range OPN 276200 (Surface (N86) BFTT/TSTS portion only)	35.124	13.375	13.039	16.394	23.617	17.358	21.024	20.801		160.732
D. ACQUISITION STRATEGY:										
The BFTT acquisition strategy for system development utilizes the spiral development model, as mandated by OSD. Incremental acquisition and fielding, utilizing commercial off-the-shelf technology to the extent possible, is in accordance with the BFTT ACAT IVM Milestone III approved documentation.										

CLASSIFICATION:															
Exhibit R-3 Cost Analysis (page 1)										DATE:			February 2007		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME								
RDT&E, N / BA-7			0204571N Consolidated Training Systems Development				1427 Surface Tactical Team Trainer (STTT) (1427/3087)								
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	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		NAVSEA 02	12.098	7.599	06/06	1.375	3/07	0.000		4.430	12/08	Continuing	Continuing	Continuing	
Ancillary Hardware Development	*	NAVSEA 02	0.999	2.000	06/06	0.060							3.059		
Component Development	*														
Ship Integration				1.725	04/06								1.725		
Ship Suitability															
Systems Engineering	*	PHD / NUWC Newport / CDSA / NSWC Dahlgren / NAVSSES / NAVSEA 02	24.658	2.705	06/06	1.477	3/07	0.190	12/07	2.526	12/08	Continuing	Continuing		
Training Development															
Licenses	*	CDSA	3.805										3.805		
Tooling															
GFE			2.497										2.497		
Award Fees			0.357										0.357		
Subtotal Product Development			44.413	14.029		2.912		0.190		6.956		Continuing	Continuing		
Remarks:															
*WX/RX/RCP															
Development Support															
Software Development	*	NAWC Orlando / NAVSSES / CDSA / NAVSEA 02	55.438	5.608	01/06	1.497	3/07	0.212	12/07	2.180	12/08	Continuing	Continuing		
Training Development															
Integrated Logistics Support				1.100	03/06	0.234	3/07						1.334		
Configuration Management															
Technical Data	*	NAWC Orlando	12.018										12.018		
GFE															
Award Fees															
Subtotal Support			67.456	6.708		1.731		0.212		2.180		Continuing	Continuing		
Remarks:															
*WX/RX/RCP															

CLASSIFICATION:														
Exhibit R-3 Cost Analysis (page 2)										DATE: February 2007				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME							
RD&E, N / BA-7			0204571N Consolidated Training Systems Development				1427 Surface Tactical Team Trainer (STTT) (1427/3087)							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	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	*	NAWC Orlando / CDSA / NAVSSES / NAVSEA 02	5.895	3.200	06/06	0.352	12/06	0.000		0.824	12/08	Continuing	Continuing	
Operational Test & Evaluation														
Live Fire Test & Evaluation														
Test Assets														
Tooling														
GFE														
Award Fees														
Subtotal T&E			5.895	3.200		0.352		0.000		0.824		Continuing	Continuing	
Remarks: *WX/RX/RCP/IPR														
Contractor Engineering Support														
Government Engineering Support	*	CDSA / NAVSSES	4.747	1.235	05/06	0.450	12/06	0.000		1.315	12/08	Continuing	Continuing	
Program Management Support														
Travel														
Labor (Research Personnel)														
SBIR Assessment														
Subtotal Management			4.747	1.235		0.450		0.000		1.315		Continuing	Continuing	
Remarks: *WX/RX/RCP														
Total Cost			122.511	25.172		5.445		0.402		11.275		Continuing	Continuing	
Remarks:														

EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2007			
APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-7		PROGRAM ELEMENT NUMBER AND NAME 0204571N, CONSOLIDATED TRAINING SYSTEMS			PROJECT NUMBER AND NAME 2124, AIR WARFARE TRAINING DEVEP				
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
2124 AIR WARFARE TRAINING DEVEP		1.408	1.681	1.735	1.781	1.821	1.858	1.892	1.928
RDT&E Articles Qty									

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This project transitions new training system technologies for use in naval aviation training. Products from this effort are directly tied to the Navy and Marine Corps Aviation Simulation Master Plans (\$479M), the MH-60R/S master plan, the Multi-Mission Maritime Aircraft (MMA) program, and will support the development and design of future naval aviation training/mission rehearsal systems. Tasks include: 1) Advanced training systems specification development to provide for modular, High Level Architecture (HLA) compliant, high fidelity Distributed Mission Training (DMT) and mission rehearsal capabilities, ashore and afloat. Mission rehearsal is defined as the practice of planned tasks and functions critical to mission success using a true-to-life, interactive representation of the expected operating environment. Technologies to be developed and integrated include: 1) DMT weapons server, weather server, common mission training stations, high-resolution helmet mounted, and/or flat panel displays, photographic quality image generation, portable source initiative (PSI) database reuse, advanced environmental effects modeling, fused radar/infra-red/electro-optic and acoustic sensor simulations, physics-based IR stimulations; and 2) the Aviation Training Technology Integration Facility (ATTIF), which is a man-in-the-loop test bed for the integration of software, hardware, and networked systems. New technologies will include intelligent computer generated forces (CGFs) as virtual and constructive entities for threat or friendly interaction. Additionally, "man-in-the-loop" intelligent agents will be integrated to the ATTIF, including an HLA node for participation and benchmarking fleet exercises in the synthetic battle space. This ATTIF capability provides a window to fleet aviators for critical comment, evaluation, and fine tuning of new and innovative technologies before final transition to the Fleet. Debrief/AAR and intelligent training support tools are focused on human performance enhancements for Fleet readiness and distributed mission training exercises.

Metrics - These technology transitions will both lower total ownership costs (TOC) of the training systems, and life-cycle costs, including: visual system database re-use, reduced instructor manning profiles, software-based fidelity enhancements), and increased fleet readiness by enhancing overall system fidelity to the projected operating environments. NASMP/MCSMP readiness improvements are conservatively forecast at 14-28% following associated technology upgrades to stand alone, or networked simulators.

APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-7	PROGRAM ELEMENT NUMBER AND NAME 0204571N, CONSOLIDATED TRAINING SYSTEMS	PROJECT NUMBER AND NAME 2124, AIR WARFARE TRAINING DEVEP
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B. ACCOMPLISHMENTS / PLANNED PROGRAM:

	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	.741	.647	.759	.810
RDT&E Articles Qty				

HUMAN SYSTEMS INTEGRATION: HUMAN SYSTEMS INTEGRATION Provide for upgraded and modular Mission Training Station (MTS) designs to lower NASMP/platform simulator life-cycle costs, improve instructor effectiveness and provide for multi-SAF exercise utilization. Analyze, develop, and integrate ATTIF modular architecture components for FA-18 cockpit avionics, MH-60R avionics, intelligent instructor operator agents, small footprint E-2C, TACAIR/MMA common GUI initiatives, threat system (NGTS) compatibility, MCSMP TEN compatibility, and JSAF compatibility, performance measurement, and after-action review (AAR)/debrief, thereby maximizing ROI for mission training station-related technology investments for multi-platform services.

	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	.325	.325	.300	.250
RDT&E Articles Qty				

SENSORS: Integrate IR (NVG & Forward Looking Infra-Red (FLIR) sensor simulation)) with Sensor Host Government, Off The Shelf Software (GOTS). Perform risk reduction, integration and production of Sensor host for Navy DMT and legacy devices. Demonstrate GOTS capability for cost-effective database materialization, and develop PSI/RSD specifications for implementation on DMT, deployed trainers, legacy, and new visual system upgrade programs. Develop texture storage, PSI material reference processes/standards, and automated applications for R/T publishing, R/T shadows, R/T combat effects, and very high-resolution visuals.

	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	.317	.495	.338	.407
RDT&E Articles Qty				

SYSTEMS ENGINEERING AND INTEGRATION: and integrate ATTIF modular architecture components for Navy DMT, deployable E-2C/D crew stations, intelligent synthetic forces, and tactical scenario control. Demonstrate low-cost DMT configurations, while maintaining or increasing fidelity. Demonstrate low cost training and mission rehearsal configurations, and evaluate variable fidelity cockpits. Demonstrate instructor support technology including advanced scenario generation, multi-SAF control, automated measures of performance (MOP), and debrief/AAR products for NASMP. Analyze GOTS/COTS alternatives for network centric warfare connectivity in the simulated battlespace, while reducing training system life cycle costs.

	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	.025	.214	.338	.314
RDT&E Articles Qty				

VISUALS: AWTD visual engineering provides for risk mitigation and next generation visual system prototype test & evaluation for both stand-alone and small footprint/deployable devices. Supporting the NASMP and T/M/S platform programs, advanced visual system display configurations are assessed, and developed to include: next generation helmet mounted displays (HMDs), laser visual systems, and associated database technologies.

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EXHIBIT R-2a, RDT&E Project Justification

DATE:

February 2007

APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-7	PROGRAM ELEMENT NUMBER AND NAME 0204571N, CONSOLIDATED TRAINING SYSTEMS	PROJECT NUMBER AND NAME 2124, AIR WARFARE TRAINING DEVEP
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C. OTHER PROGRAM FUNDING SUMMARY:	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Cost
APN Line 20-BA-7 BLI 0705										
USMC Federation Simulators	17.567	31.616	23.829	39.629	32.993	31.723	32.389	33.069		242.815
APN Line 16-BA-7 BLI 0705										
Fleet Aircrew Simulator Training (FAST)	71.729	50.359	51.375	51.922	54.972	47.039	42.754	43.862		414.012

Related RDT&E

PE 0604245N, Project #H2279, Sub-Project Title: USMC H-1 Upgrades

D. ACQUISITION STRATEGY: Air Warfare Training Development (AWTD) is a 6.4 RDT&E joint technology transition program tied to the Naval Aviation Simulation Master Plan (NASMP) and the various platform simulation master plans with the purpose of transitioning advanced training and mission rehearsal technologies. AWTD provides risk mitigation, test & evaluation, and prototype development for stand-alone, distributed, and deployed training systems for the warfighter utilizing an IPT approach and a combination of reimburseable and direct cite T&M contracts.

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Exhibit R-3 Cost Analysis (page 1)										DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-7		PROGRAM ELEMENT 0204571N, CONSOLIDATED TRAINING SYSTEMS				PROJECT NUMBER AND NAME 2124, AIR WARFARE TRAINING DEVEP						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract
PRODUCT DEVELOPMENT												
Sys Engr (AFRL, Advance Sensor Dev)	VARIOUS	VARIOUS	8.440	.325	VARIOUS	.300	VARIOUS	.250	VARIOUS		9.315	
Sys Engr (NAWCTSD, ITST)	VARIOUS	VARIOUS	2.094	.647	VARIOUS	.759	VARIOUS	.810	VARIOUS	7.439	11.749	
Sys Engr (NAWCTSD, Visuals)	VARIOUS	NAWCTSD, ORLANDO FL		.164	VARIOUS	.100	VARIOUS	.150	VARIOUS		.414	
Sys Engr (NAWCTSD, Visuals)	VARIOUS	TBD	.396	.050	VARIOUS	.238	VARIOUS	.164	VARIOUS		.848	
SUBTOTAL PRODUCT DEVELOPMENT			10.930	1.186		1.397		1.374		7.499	22.326	

Remarks:

SUPPORT												
Develop Support Equipment	VARIOUS	TBD	.410	.160	VARIOUS	.165	VARIOUS	.167	VARIOUS		.902	
Develop Support Equipment	VARIOUS	TBD	.742								.742	
SUBTOTAL SUPPORT			1.152	.160		.165		.167			1.644	

Remarks:

TEST & EVALUATION												
Developmental Test and Evaluation	VARIOUS	VARIOUS	.565	.320	VARIOUS	.150	VARIOUS	.220	VARIOUS		1.255	
Developmental Test and Evaluation	VARIOUS	TBD	4.508								4.508	
SUBTOTAL TEST & EVALUATION			5.073	.320		.150		.220			5.763	

Remarks:

MANAGEMENT												
Travel	VARIOUS	VARIOUS	.024	.015	VARIOUS	.023	VARIOUS	.020	VARIOUS		.082	
Travel	VARIOUS	TBD	.374								.374	
SUBTOTAL MANAGEMENT			.398	.015		.023		.020			.456	

Remarks:

Total Cost			17.553	1.681		1.735		1.781		7.499	30.190	
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Remarks:

EXHIBIT R-2a, RDT&E Project Justification							DATE:							
APPROPRIATION/BUDGET ACTIVITY							PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME				
RDT&E,N / BA-7							0204571N, CONSOLIDATED TRAINING SYSTEMS			3093, TACTICAL COMBAT TRAINING SYSTEM (TCTS).				
COST (\$ in Millions)							FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
3093 TACTICAL COMBAT TRAINING SYSTEM (TCTS).							15.711	7.705	3.538	3.031	5.431	9.182	9.355	9.534
RDT&E Articles Qty							39	6						

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The Tactical Combat Training System will provide the Navy a replacement for major portions of the Tactical Aircrew Combat Training System (TACTS) and Large Area Tracking Range (LATR) system. TCTS will also provide fleet deployable training for at-sea training and tactics development. By providing a rangeless capability, the system will greatly increase the area where live instrumented training can be conducted. Initial fielding of a Non-Developmental Item (NDI) Pod system was at NAS Key West. The program incorporates an evolutionary development (incremental) towards a system capable of supporting a broad spectrum of naval platforms through weapons simulations, participant weapons system stimulation, open architecture and a high capacity/long range secure data link. The Milestone Decision Authority (MDA) approved program rebaseline on May 23, 2005. The MDA approved acquisition streamlining February 2006, which included additional RDT&E test articles to support Operational Test.

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	15.711	7.705	3.538	3.031
RDT&E Articles Qty	39	6		

TCTS: Qualified and completed the NDI Rangeless Pod system fielded at NAS Key West, including the complete Integrated Logistics products and training. Developed and implemented track exchange interface between TCTS live monitor and TACTS Control and Computation Subsystem (CCS). Defined Test and Training Enabled Architecture (TENA) compliant interface between TCTS and an Advance Display System. Developed F/A-18 (C/D/E/F) Internal Subsystem (IS) and began qualification testing. Initiated development of the Fixed Ground Subsystem and data link uplink control for fielding at larger Navy training ranges. Develop and deliver Integrated Logistics products for the IS and for fielding the TCTS system for deployed and fixed Range applications. Initiated the development of an Rack-Mounted Subsystem for use on rotary wing and transport aircraft. Continue to development of the Advanced Data link waveform and the Joint Tactical Radio System (JTRS) advance data link. Develop shipboard ground subsystem and related training range integration.

C. OTHER PROGRAM FUNDING SUMMARY:

	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Cost
Related OPN:										
Weapons Range Support Equipment, LI 420400	3.691	7.847	5.685	7.640	5.511	5.348	5.510	5.651		46.883
Related APN:										
Other Production Charges, LI 072500	13.212	19.423	20.630	27.876	28.173	22.895	23.340	23.786		179.335

D. ACQUISITION STRATEGY: TCTS will employ an evolutionary incremental acquisition strategy to procure a base Non-Developmental Item System and development of the system to meet the full ORD requirements. TCTS is a cooperative program with the USAF P5 CTS program. The USAF awarded a 10-year contract in June 2003.

Exhibit R-3 Cost Analysis (page 1)										DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-7		PROGRAM ELEMENT 0204571N, CONSOLIDATED TRAINING SYSTEMS				PROJECT NUMBER AND NAME 3093, TACTICAL COMBAT TRAINING SYSTEM (TCTS).						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract
PRODUCT DEVELOPMENT												
Primary Hdw Development	SS CPAF	CUBIC DEFENSE APPS, INC, SAN DIEGO, CA	9.165	1.884	11/06	.200	11/07				11.250	11.250
SUBTOTAL PRODUCT DEVELOPMENT			9.165	1.884		.200					11.250	

Remarks:

SUPPORT												
Contractor Eng Sup	VARIOUS	VARIOUS	.200	.200	11/06	.413	11/07	1.334	11/08		2.147	
Integrated Logistics Sup	VARIOUS	VARIOUS	.243	.435	11/06	.005	11/07	.155	11/08		.838	
Software Dev - ETS (NON-FFRDC)	SS CPAF	ROCKWELL COLLINS SERVICES, CEDAR RAPIDS, IA				2.500	11/07	.568	11/08		3.068	3.068
Software Development	SS CPAF	CUBIC DEFENSE APPS, INC, SAN DIEGO, CA	9.455	.990	11/06						10.445	10.445
Software Development	SS CPAF	ROCKWELL COLLINS SERVICES, CEDAR RAPIDS, IA		2.355	11/06						2.355	2.355
SUBTOTAL SUPPORT			9.899	3.980		2.918		2.057			18.853	

Remarks:

TEST & EVALUATION												
Dev T&E - ETS (NON-FFRDC)	VARIOUS	VARIOUS	.244	.175	11/06						.419	
Dev T&E - Reimb Fld Spt	VARIOUS	VARIOUS	2.179	.300	11/06			.395	11/08		2.874	
Oper T&E - Military Travel	WR	OPER T & E FOR CD 30, NORFOLK VA	.023	.010	VARIOUS	.007	VARIOUS				.040	
SUBTOTAL TEST & EVALUATION			2.446	.485		.007		.395			3.333	

Remarks:

MANAGEMENT												
Contractor Eng Sup - ETS (NON-FFRDC)	VARIOUS	VARIOUS	.352	.425	11/06						.777	
Government Eng Sup	VARIOUS	VARIOUS	2.786	.929	11/06	.413	11/07	.579	11/08	33.502	38.209	
Travel	VARIOUS	TBD	.012	.002	VARIOUS						.014	
SUBTOTAL MANAGEMENT			3.149	1.356		.413		.579		33.502	38.999	

Remarks:

Total Cost			24.659	7.705		3.538		3.031		33.502	72.435	
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Remarks:

CLASSIFICATION:

EXHIBIT R4, Schedule Profile																							DATE:									
APPROPRIATION/BUDGET ACTIVITY																							PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME					
RDT&E,N / BA-7																							0204571N, CONSOLIDATED TRAINING SYSTEMS				3093, TACTICAL COMBAT TRAINING SYSTEM (TCTS).					
Fiscal Year	FY 2006				FY 2007				FY 2008				FY 2009				FY 2010				FY 2011				FY 2012				FY 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
Acquisition Milestones								Phase 2 MS C ▲								Phase 5 MS B ▲				Phase 4 MS C ▲												
Acquisition Phase	Phase 1 NDI - Transportable (GS, AS)																															
	Phase 2 Internal Subsystem (IS)																															
	Rack Mounted Subsystem (RS)																															
	Phase 4 Advanced Datalink																															
	Phase 5 Battle Group																															
Internal Subsystem Dev	[Bar chart showing development timeline]																															
Rack Mounted Subsystem Dev	[Bar chart showing development timeline]																															
Ground Subsystem Dev (FGS)	[Bar chart showing development timeline]																															
Test & Evaluation Milestones																																
Phase 1 (NDI)																																
Phase 2: Internal Subsystem (IS)																																
Rack-Mount Subsystem (RS)																																
System: CVW-5																																
Fixed Range																																
Production Milestones																																
Phase 1 NDI - Transportable (GS, AS)																																
Phase 2 Internal Subsystem (IS)																																
Rack Mounted Subsystem (RS)																																
Phase 4 Advanced Datalink																																
Deliveries IOC																																

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CLASSIFICATION:

Exhibit R-4a, Schedule Detail						DATE:		
						February 2007		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT				PROJECT NUMBER AND NAME			
RDT&E,N / BA-7	0204571N, CONSOLIDATED TRAINING SYSTEMS				3093, TACTICAL COMBAT TRAINING SYSTEM (TCTS).			
Schedule Profile	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Acquisition Milestones								
Phase 2 MS C		3Q						
Phase 5 MS B				4Q				
Phase 4 MS C					3Q-4Q			
Acquisition Phase								
Phase 1 NDI - Transportable (GS, AS)	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
Phase 2 Internal Subsystem (IS)	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
Rack Mounted Subsystem (RS)	4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
Phase 4 Advanced Datalink	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
Phase 5 Battle Group					1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
Internal Subsystem Dev	1Q-4Q	1Q-3Q						
Rack Mounted Subsystem Dev		1Q-3Q						
Ground Subsystem Dev	3Q-4Q	1Q-2Q						
Test & Evaluation Milestones								
Phase 1 (NDI)	2Q							
Phase 2 Internal Subsystem (IS)	3Q-4Q	1Q-2Q						
Rack Mount Subsystem (RS)		4Q	1Q					
System: CVW-5			1Q					
Fixed Range			1Q					
Production Milestones								
Phase 1 NDI - Transportable (GS, AS)	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
Phase 2 Internal Subsystem (IS)	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
Rack Mounted Subsystem (RS)		2Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
Phase 4 Advanced Datalink	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
Deliveries IOC	2Q		1Q-2Q					

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2007		
APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-7		PROGRAM ELEMENT NUMBER AND NAME 0204571N, CONSOLIDATED TRAINING SYSTEMS			PROJECT NUMBER AND NAME 9999 CONGRESSIONAL ADDS				
COST (\$ in Millions)		FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
9999 CONGRESSIONAL ADDS		.967	1.295						
RDT&E Articles Qty									

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Congressional Add

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

Total Ship Training System	FY 2006	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	.967	1.295		
RDT&E Articles Qty				

3087C: FY06 and FY07 Congressional Plus Ups provided for Total Ship Training System (TSTS) to analyze requirements, design, develop, test, and deliver a functional Training Management System (TMS) prototype with related documentation for elements of TSTS. Prototypes of the various TMS hardware and software subsystems will be designed and documented in a design specification including: Personnel Management subsystem, Communication Audio Capture subsystem, and the Video Capture subsystem.