	EXHIBIT R-2,	RDT&E Budget Item	Justification			DATE:			
						February 2006			
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENC	LATURE							
REASEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA 6							ET SYSTEMS DEVELOPMENT		
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
Total PE Cost	31.964	40.759	45.666	42.532	47.149	48.106	49.952		
0609 AERIAL TARGET SYSTEMS DEV	28.096	26.147	30.135	22.891	14.426	12.158	8.281		
0610 WPN SYS T&E TRG DEV/PRC	2.918	10.648	14.315	18.372	30.380	33.759	40.277		
0612 SURFACE TARGETS DEVELOPMENT	.950	2.964	1.216	1.269	2.343	2.189	1.394		
9999 CONGRESSIONAL ADD		1.000							

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This program element funds the development and procurement of aerial targets, surface targets, and associated Target Augmentation and Auxiliary Systems (TA/AS) necessary to duplicate or simulate threat characteristics. This requirement is necessary to support weapons systems test and evaluation as well as fleet training. This program element includes the development of: Subsonic Subscale Aerial Target (SSAT), various TA/AS, Supersonic Sea Skimming Target (SSST), Navy Full Scale Aerial Target (FSAT) for conversions, the FSAT Follow-On (AST), surface targets for test and evaluation, surface towed targets, improved target control system, and an anti-radiation missile target. This program element also includes procurement of TA/AS Vector Scoring.

	EXHIBIT R-2a, RDT&E Project Justification										
										February 2006	
APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND NAME									IAME		
RDT&E, N /	BA 6	0604258N, TA	0604258N, TARGET SYSTEMS DEVELOPMENT 0609, AERIA						YSTEMS DEV		
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011				
0609 AERIAL TARGET SYSTEMS DEV	28.096	26.147	30.135	22.891	14.426	12.158	8.281				
RDT&E Articles Qty											

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Aerial Target Systems and associated target augmentation and auxiliary systems are developed to test and provide training for Joint Strike and Littoral Warfare Systems required to defend fleet surface and air unit in a hostile environment. The threat envelope covered extends from the surface to 100K feet for speeds in the low subsonic range to MACH 4. This project includes:

-Subsonic Subscale Aerial Target (SSAT) development (including pre-planned product improvements to the existing recoverable, remote-controlled subsonic target - upgraded engine, fuselage, swept wing configuration). The SSAT simulates the anti-ship Cruise Missile threat.

-Supersonic Sea Skimming Target (SSST) development. The current developmental SSST replicates anti-ship cruise missile Threat performance.

-Target Augmentation and Auxiliary Systems (TAAS) development. TAAS items allow each target to be uniquely configured for specific mission profiles. TAAS configured targets are used for radar acquistion to electronic countermeasures (jamming) evaluation, infrared measurement/test, radar cross section evaluation, decoy effectiveness, maneuver analysis, electronic warfare, warhead effectiveness and evaluation of fleet tactics, readiness and effectiveness.

	EXHI	BIT R-2a, RDT&E Project Justification	DATE: February 2006
PPROPRIATION/BUDGET ACTIVITY DT&E, N /	BA 6	PROGRAM ELEMENT NUMBER AND NAME 0604258N, TARGET SYSTEMS DEVELOPMENT	PROJECT NUMBER AND NAME 0609, AERIAL TARGET SYSTEMS DEV
ACCOMPLISHMENTS / PLANNED PROGRAM:		•	
	FY 2005	FY 2006 FY 2007	
ccomplishments / Effort / Sub-total Cost DT&E Articles Qty	4.8	5.888 6.045	
Continue Target Augmentation and Auxiliary Syste	ms (TA/AS) developn	nent.	
	FY 2005	FY 2006 FY 2007	
complishments / Effort / Sub-total Cost	13.2		
DT&E Articles Qty			
	FY 2005	FY 2006 FY 2007	
ccomplishments / Effort / Sub-total Cost DT&E Articles Qty	10.0	015 14.136 22.343	
,	<u> </u>		
study to support operations at Pacific Missile Rangenhancement study. Continue analyzing and valid	ge Facility (PMRF). (ating results of study	2) Initiate study to develop GQM-163A air-launch capability. (3)-U	eat and associated ORD requirements. Efforts include: (1)-Initiate launch Jpgrade GQM-163A to support integration of ULQ-21. (4) Initiate booster ative SSST. Finalize efforts evaluating an acquisition approach that lower Milestone B decision and program commencement to support a

Exhibit R-2 RDTEN Budget Item Justification (Exhibit R-2, Page 3 of 13)

	EXHI	BIT R-2a, RDT&E	Project Justific	ation				DATE:	February 2006
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /	BA 6		LEMENT NUME				PROJECT NUMB	ER AND NAME RGET SYSTEMS DEV	rebluary 2006
C. PROGRAM CHANGE SUMMARY	DA 0	0004236N, 12	KGET STSTE	VIS DEVELO	- IVI EIN I		0009, AERIAL TAI	NGET STSTEMS DEV	
Funding: Previous President's Budget: Current BES / President's Budget: Total Adjustments	FY 2005 23.4 28.0 4.6	26.546 96 26.147	30.135						
Summary of Adjustments Congressional Reductions Congressional Rescissions Congressional Undistributed Reductions Congressional Increases	-0.3	319 -0.278							
Economic Assumptions		-0.121							
Miscellaneous Adjustments	4.9	76	-0.453						
	Subtotal 4.6	-0.399	-0.453						
Schedule: Not Applicable. Technical: Not Applicable.									
D. OTHER PROGRAM FUNDING SUMMARY:	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost
228000 Aerial Target System 612020 Spares and Repair Parts (WPN B.A. 6)	69.1 0.5								
E. ACQUISITION STRATEGY: Not Applicable.									

	EXHIBIT R-2a, RDT&E Project Justification									
		February 2006								
APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND N										
RDT&E, N /	BA 6	0604258N, TA	RGET SYSTE	MS DEVELOR	PMENT		0610, WPN S	YS T&E TRG I	DEV/PRC	
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011			
0610 WPN SYS T&E TRG DEV/PRC	2.918	10.648	14.315	18.372	30.380	33.759	40.277			
RDT&E Articles Qty		2	4	5	6	4	3			

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This project provides for the development and procurement of Aerial Targets used exclusively for test and evaluation of Naval Weapons Systems which closely replicate current and projected threats to fleet units in the Joint Strike and the Littoral Warfare environments. This replication must include characteristics related to size, performance envelope, and electromagnetic and infrared signatures. As threats change, change must be made to keep the targets as threat representative as possible. This is done in response to changes in the requirements of the developers of Naval weapons.

	February 2006			
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	AME
RDT&E, N /	BA 6	0604258N, TARGET SYSTEMS DEVELOPMENT	0610, WPN SYS T&E TRG D	EV/PRC

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

	FY 2005	FY 2006	FY 2007	
Accomplishments / Effort / Sub-total Cost	.100	1.750	2.250	
RDT&E Articles Qty				

Target Augmentation and Auxiliary Systems items allow each target to be uniquely configured for specific mission profiles. TAAS configured targets are used for radar acquistion test, electronic countermeasure (jamming) evaluation, infrared measurement/test, radar cross section evaluation, decoy effectiveness, maneuver analysis, electronic warfare, warhead effectiveness and evaluation of fleet tactics, readiness and effectiveness. Continue T&E Target Augmentation and Auxiliary Systems (TA/AS) Vector Scorer development/procurement/support.

	FY 2005	FY 2006	FY 2007	
Accomplishments / Effort / Sub-total Cost	2.485	7.099	10.644	
RDT&E Articles Qty		2	4	

The Full Scale Aerial Target is a supersonic, high altitude, remote-controlled aerial target. This target has full command and control capability through normal flight maneuvers. Continued program, engineering a logistics support for the Full Scale Aerial Target (FSAT), including Aviation Depot Level Repairables (AVDLR), procurement of kit material and conversion of F-4 aircraft into FSAT targets. The Navy began joint procurement of QF-4 T&E assets with USAF in FY03. FY07 QF-4 procurements deliver FSATs in FY09 supporting JSF, AIM-9X, AMRAAM and SM-6.

	FY 2005	FY 2006	FY 2007	
Accomplishments / Effort / Sub-total Cost	.333	1.799	1.421	
RDT&E Articles Qty				

The Air Superiority Target (AST) is being developed as the follow-on to the current FSAT. AST will be a supersonic, high altitude, remote-controlled aerial target. This target will have full command and control capability through normal flight maneuvers. Continue support of the follow-on FSAT development.

Exhibit R-2 RDTEN Budget Item Justification (Exhibit R-2, Page 6 of 13)

	EXHIBIT R-2a, RDT&E Project Justification							
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NA	AME				
RDT&E, N /	BA 6	0604258N, TARGET SYSTEMS DEVELOPMENT	0610, WPN SYS T&E TRG D	DEV/PRC				
		•	•					

C. PROGRAM CHANGE SUMMARY

Funding:	FY 2005	FY 2006	FY 2007
Previous President's Budget:	10.934	23.408	14.713
Current BES / President's Budget:	2.918	10.648	14.315
Total Adjustments	-8.016	-12.760	-0.398
Summary of Adjustments			
Congressional Reductions		-12.408	
Congressional Rescissions			
Congressional Undistributed Reductions	-0.263	-0.245	
Congressional Increases			
Economic Assumptions		-0.107	
Miscellaneous Adjustments	-7.753		-0.398
Subtotal	-8.016	-12.760	-0.398

Schedule: Not Applicable.

Technical: Not Applicable.

D. OTHER PROGRAM FUNDING SUMMARY: FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 To Complete Total Cost 228000 Aerial Target System (WPN) 69.125 91.539 83.299 612020 Spares and Repair Parts (WPN B.A. 6) 0.545 5.975 5.506

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februa	ry 2006
APPROPRIATION/BUDGET ACTIVITY								
RDT&E, N / BA-6	0604258N, Target	0604258N, Target Systems Development 0612, Surface Targets Development						
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Project Cost	0.950	2.964	1.216	1.269	2.343	2.189	1.394	
RDT&E Articles Qty	1	1	1	1	1	1	1	

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This project develops seaborne targets systems and their related target augmentation systems in support of air-to-surface and surface-to-surface weapons test and evaluation and fleet training.

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE:
			February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	IAME
RDT&E, N / BA-6	0604258N, Target Systems Development	0612, Surface Targets Deve	lopment

B. Accomplishments/Planned Program

	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	0.200	0.231	0.249	
RDT&E Articles Quantity				

-Continued requirements StudyAnalysis of target requirements in response to weapons systems development and upgrades.

- -Continued development of real-time surface target scoring systems, including move to vector scorer.
- -Continued command and control upgrade development.
- -Continued Weapons System/Emitter, Target Augmentation System (TAS) upgrade.
- -Continued Target/Threat Characterization and Validation.

	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	0.750	2.733	0.967	
RDT&E Articles Quantity	1	1	1	

-Procured prototype 50 foot - 50 knot Fast Attack Craft Target (FACT) for testing and evaluation of concept validation.

- -Complete evaluation and finalize configuration for FACT production.
- -Finalize reports and prepare procurement recommendations to sponsors.
- -Procured QST-35i, a 60 foot candidate replacement for QST-35A.
- -Evaluate suitability of QST-35i and develop procurement package for follow-on production.
- -Update design package for medium (40M) Coastal Patrol Craft threat in FY05.
- -Procure prototype Medium (40M) missile-capable, patrol craft threat to address known threat design in FY06. Integrate of on-board control system in FY07 upon receipt of vessel.
- -Conduct testing of small, high-speed, missile capable patrol craft threat.
- -Complete high-speed (>45 knots) tow platform to be utilized in conjunction with small high-speed patrol craft threat to enhance platform survivability.

ASSIFICATION:												
(HIBIT R-2a, RDT&E Project Justification							DATE:					
DDODDIATION/DUDGET ACTIVITY	IDDOOD ALLE				DDO IEOT NII	MADED AND N		ebruary 200)6			
PROPRIATION/BUDGET ACTIVITY		LEMENT NUMBER				IUMBER AND NAME						
DT&E, N / BA-6	0604258N, Ta	258N, Target Systems Development			0612, Surface	Targets Devel	opment					
C. PROGRAM CHANGE SUMMARY:												
Funding:) t (-)	FY2005	FY 2006	FY2007								
Previous President's Budget: (FY06 Pres C		0.952	3.009	1.215								
Current BES/President's Budget: (FY07 Pre	es Controls)	0.950	2.964	1.216		-						
Total Adjustments		-0.002	-0.045	0.001								
Summary of Adjustments												
Congressional Reduction	าร											
Congressional Rescission												
Congressional Undistribu			-0.031									
Congressional Increases												
Economic Assumptions			-0.014									
Miscellaneous Adjustme	nts	-0.002		0.001								
Subtotal		-0.002	-0.045	0.001		='						
Schedule:												
Not applicable												
Technical:												
Not applicable												
D. OTHER PROGRAM FUNDING SUMMARY:												
									То	Total		
		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Complete	Cost		
OPN Line 545500 ASW Range Spt Equipm	ent	7.126	7.136	7.188								
E. ACQUISITION STRATEGY:												
Not applicable												
Ttot applicable												

CLASSIFICATION:

XHIBIT R-2a, RDT&E Project Justification								DATE:		
							Februa	ary 2006		
APPROPRIATION/BUDGET ACTIVITY										
RDT&E, N / BA-6	0604258N, Target Systems Development 9999, Congressional Ac					nal Add				
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011			
Project Cost		1.000								
RDT&E Articles Qty										

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Congressional Add.

R-1 SHOPPING LIST - Item No.

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justifica	DATE: February 2006				
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUM	MBER AND NAME	PROJECT NUMBER AN		
RDT&E, N / BA-6	0604258N, Target Systems		9999, Congressional Ado		
B. Accomplishments/Planned Program					
	FY 05	FY 06	FY 07		
Accomplishments/Effort/Subtotal Cost		1.000			
RDT&E Articles Quantity					
-Air Coyote supersonic sea skimming target de	evelonment				
7 th Coyote supersonie sea skiriming target a	velopment				
					<u> </u>

LASSIFICATION:											
XHIBIT R-2a, RDT&E	Project Justification							DATE:			
.PPROPRIATION/BUDGE	F ACTIVITY	PROGRAM ELE		AND NAME		PROJECT NU	IMPED AND N		ebruary 200	16	
	ACTIVITY							IAIVIE			
RDT&E, N / BA-6 C. PROGRAM CHAN	OF CLIMANA DV.	0604258N, Targe	et Systems Deve	elopment		9999, Congres	ssional Add				
Funding:	GE SUMMART:		FY2005	FY 2006	FY2007						
Previous Preside	nt's Rudget:		F12005	F1 2006	F12007						
Current BES/Pres				1.000							
Total Adjustments	sident's budget.		0.000	1.000	0.000						
Summary of Adjustme											
	Congressional Reductions										
	Congressional Rescissions										
	Congressional Undistributed Re Congressional Increases	eductions		1.000							
	Economic Assumtions			1.000							
	Miscellaneous Adjustments										
Subtotal	Miscellarieous Aujustinents		0.000	1.000	0.000						
Schedule:											
Not applicable											
Technical:											
Not applicable											
D. OTHER PROGRAI	M FUNDING SUMMARY:										
			5 1/0	5 .400						То	Total
			FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	<u>Complete</u>	Cost
WPN 228000 Ae			69.125	91.539	83.299						
612020 Spares a	nd Repair Parts (WPN B.A. 6)		0.545	5.975	5.506						
E. ACQUISITION STRA	TEGY:										
Not applicable											