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EXHIBIT R-2, RDT&E Budget Item Justification					DATE: February 2008		
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE		
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-6					0604258N, TARGET SYSTEMS DEVELOPMENT		
COST (\$ in Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	38.653	31.684	80.337	80.758	73.083	63.709	49.417
0609 AERIAL TARGET SYSTEMS DEV	21.352	12.896	50.915	56.474	42.825	26.427	15.783
9999 CONGRESSIONAL ADD	2.241						
0610 WPN SYS T&E TRG DEV/PRC	13.881	17.570	27.075	23.054	28.823	35.822	32.149
0612 SURFACE TARGETS DEVELOPMENT	1.179	1.218	2.347	1.230	1.435	1.460	1.485

(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 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 Air Superiority Target (AST), surface targets for test and evaluation, surface towed targets, improved control systems, and an anti-radiation missile target. This program element also includes procurement of TA/AS Vector Scoring.

\$ 2.241 M Air Coyote Cong Add in support of SSST development.

B. PROGRAM CHANGE SUMMARY

Funding:	FY 2007	FY 2008	FY 2009
Previous President's Budget:	47.734	32.376	52.338
Current President's Budget	38.653	31.684	80.337
Total Adjustments	-9.081	-0.692	27.999

Summary of Adjustments

Congressional Reductions			
Congressional Rescissions			
Congressional Undistributed Reductions	-1.079	-0.206	
Congressional Increases			
Economic Assumptions			-0.520
Miscellaneous Adjustments	-8.002	-0.486	28.519
Subtotal	-9.081	-0.692	27.999

Schedule:N/A

Technical:N/A

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2008			
APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-6		PROGRAM ELEMENT NUMBER AND NAME 0604258N, TARGET SYSTEMS DEVELOPMENT				PROJECT NUMBER AND NAME 0609, AERIAL TARGET SYSTEMS DEV				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013		
0609 AERIAL TARGET SYSTEMS DEV		21.352	12.896	50.915	56.474	42.825	26.427	15.783		
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 units 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 emulates subsonic anti-ship cruise missile threats in support of test & evaluation of major defensive weapon system programs in development and fleet training.
- Supersonic Sea Skimming Target (SSST) development. The SSST emulates supersonic anti-ship cruise missile threats in support of test & evaluation of major defensive weapon system programs in development.
- Target Control (TC) and Target Augmentation Auxiliary System (TAAS) Task Development: TAAS items allow each target to be uniquely configured for specific mission profiles. TAAS configured targets are used for radar acquisition test, 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.

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

Supersonic Sea Skimming Target	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	13.540	2.938	36.885
RDT&E Articles Qty			

- Continue GQM-163A Supersonic, Sea-Skimming Target (SSST) upgrades/evolutionary development to keep pace with evolving threat and associated OFD requirements. Efforts include: (1) Continue development of high-diver capability. (2) Continue efforts to establish operational capability at Pacific Missile Range Facility (PMRF). (3) Continue efforts to establish a GQM-163A air launch capability. (4) Upgrade GQM-163A to support integration of ULQ-21. (5) Investigate and initiate efforts for booster enhancement, flight termination improvement and Front End Section upgrades.
- Continue efforts to meet Threat D requirements including post milestone B and post-contract award activities associated with the competitive award of a developmental contract for a Threat D Target System. Perform a Specification Requirements Review and conduct preliminary development activities leading to a preliminary design review.

Subsonic Aerial Target	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	1.742	4.044	5.977
RDT&E Articles Qty			

- Continue Subsonic Subscale Aerial Target (SSAT) development. To include:
 - Product improvements to the existing SSAT to meet performance and payload requirements.
 - Evaluation of alternate subsonic subscale aerial targets to meet evolving subsonic threat emulation requirements.
 - Prepare and conduct a potential competitive contract award for a target to meet requirements for a follow-on SSAT.

TC/TAAS	FY 2007	FY 2008	FY 2009
Accomplishments / Effort / Sub-total Cost	6.070	5.914	8.053
RDT&E Articles Qty			

Continue TC and TAAS development.

C. OTHER PROGRAM FUNDING SUMMARY:	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Cost
228000 Aerial Target System	82.938	66.856	83.313	66.858	68.509	81.419	83.076	Cont	Cont
612020 Spares and Repair Parts (WPN B.A. 6)	1.777	1.159	0.993	0.850	0.545	0.663	0.592		

D. Acquisition Strategy :

Not Applicable

EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2008			
APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-6		PROGRAM ELEMENT NUMBER AND NAME 0604258N, TARGET SYSTEMS DEVELOPMENT				PROJECT NUMBER AND NAME 9999 Congressional Add				
COST (\$ in Millions)		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013		
0609C Air Coyote Supersonic Sea Skimming Target		2.241								
RDT&E Articles Qty										

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Congressional Add.

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

	FY 2007	FY 2008	FY 2009
0609C			
Air Coyote	2.241		
RDT&E Articles Qty			

Air Coyote supersonic sea skimming development.

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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME					PROJECT NUMBER AND NAME				
RDT&E,N / BA-6	0604258N, TARGET SYSTEMS DEVELOPMENT					0610, WPN SYS T&E TRG DEV/PRC				
COST (\$ in Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013			
0610 WPN SYS T&E TRG DEV/PRC	13.881	17.570	27.075	23.054	28.823	35.822	32.149			
RDT&E Articles Qty										
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:										
<p>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, changes 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.</p>										
B. ACCOMPLISHMENTS / PLANNED PROGRAM:										
Air Superiority Target	FY 2007	FY 2008	FY 2009							
Accomplishments / Effort / Sub-total Cost	1.063	1.071	8.242							
RDT&E Articles Qty										
<p>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.</p>										
QF-4 Full Scale Aerial Target	FY 2007	FY 2008	FY 2009							
Accomplishments / Effort / Sub-total Cost	10.644	15.530	17.788							
RDT&E Articles Qty										
<p>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 and 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. FY09 QF-4 procurements deliver FSATs in FY11 supporting JSF, AIM-9X, AMRAAM and SM-6.</p>										
TASS Vector Scorer	FY 2007	FY 2008	FY 2009							
Accomplishments / Effort / Sub-total Cost	2.174	.969	1.045							
RDT&E Articles Qty										
<p>Target Augmentation and Auxiliary Systems items allow each target to be uniquely configured for specific mission profiles. TAAS configured targets are used for radar acquisition test, 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. Continue T&E Target Augmentation and Auxiliary Systems (TA/AS) Vector Scorer development/procurement/support.</p>										
C. OTHER PROGRAM FUNDING SUMMARY:	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	#REF!	To Complete	Total Cost
228000 Aerial Target System	82.938	66.856	83.313	66.858	68.509	81.419	83.076		Cont	Cont
612020 Spares and Repair Parts (WPN B.A. 6)	1.778	1.159	0.993	0.850	0.545	0.663	0.592		Cont	Cont
D. ACQUISITION STRATEGY:N/A										

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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		
RD TEN/BA 6		0604258N/TARGET SYSTEMS DEVELOPMENT			0612/SURFACE TARGETS DEV		
COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	1.179	1.218	2.347	1.230	1.435	1.460	1.485
RDT&E Articles Qty	0	0	0	0	0	0	0
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:							
<p>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.</p>							

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION			DATE February 2008
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 6	PROGRAM ELEMENT NUMBER AND NAME 0604258N/TARGET SYSTEMS DEVELOPMENT	PROJECT NUMBER AND NAME 0612/SURFACE TARGETS DEV	

B. ACCOMPLISHMENTS/PLANNED PROGRAM:

	FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost	1.179	1.218	2.347
RDT&E Articles Quantity	0	0	0

- Continued requirements Study Analysis of target requirements in response to weapons systems development and upgrades.
- Continued testing of real-time surface target scoring systems, including shift to seaborne platform based vector scorer.
- Continued command and control upgrade development including LEO uplink/downlink.
- Continued Weapons System/Emitter, Target Augmentation System(TAS) upgrade.
- Continued Target/Threat Characterization and Validation.
- Complete technical effort for 40M MST T&E platform procurement.
- Integration of on-board system for 40M MST.
- Refine performance spec based on prototype FACT results prior to follow-on FY08 procurement.
- Finalize reports and prepare procurement recommendations to sponsors.
- Prepare TDP with updated design package for FY09 procurement of 40M MST platform.
- Conduct testing of improved EO/IR augmentation on powered platforms.
- Adapt augmentation for use on tow platforms to enhance powered vessel survivability.

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RD TEN/BA 6	0604258N/TARGET SYSTEMS DEVELOPMENT				0612/SURFACE TARGETS DEV			
C. OTHER PROGRAM FUNDING SUMMARY:								
								Total
	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	Cost
OPN Line 545500 ASW Range Spt Equipment	7.154	8.861	9.199	7.424	7.224	6.249	7.403	60.650
D. ACQUISITION STRATEGY:								
Not applicable								