CLASSIFICATION:

EXHIBI'	T R-2, RDT	&E Budget	Item Justifica	ation				DATE:			
									Ju	ne 2001	
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NO	MENCLATUR	Ē			
RESEARCH DEVELOPMENT TEST & EVALUATION	TION, NAV	Y	BA-6			0604258N TA	ARGET SYSTE	EMS DEVELOR	PMENT (TSD)		
	Prior										Total
COST (\$ in Millions)	Year Cost	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Program
Total PE Cost		51.592	40.699	49.511							
20612 Surface Targets Development		1.065	1.117	1.149							
A0609 Aerial Target Systems Development		31.425	29.795	36.751							
 A0610 Weapon Systems T&E Development/Procureme	nt	19.102	9.787	11.611							
Quantity of RDT&E Articles		10	4	4							

⁽U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This program element funds the development and procurement of aerial and surface targets and associated Target Augmentation and Auxiliary Systems (TA/AS) necessary to duplicate or simulate threat characteristics in support of weapons systems test and evaluation and fleet training. Included within this program element are development of: Subsonic Subscale Aerial Target (SSAT), various TA/AS, Target Threat Characterization (TTC), Supersonic Sea Skimming Target (SSST), Navy Full Scale Aerial Target (FSAT) for conversions, the FSAT Follow-On (FO), surface targets for test and evaluation, surface towed targets, improved target control system, and an anti-radiation missile target. This program element also includes Vandal (EER) testing and procurement of TA/AS Vector Scoring.

(U) B. JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under RDT&E Management Support because it supports the operations and installations required for general research and development use.

CLASSIFICATION:

UNCLASSIFIED

EXHIBI'	T R-2a, RDT&	E Project Ju	stification				DATE:			
								Jui	ne 2001	
APPROPRIATION/BUDGET ACTIVITY	ME AND NUN	/IBER								
RDT&E, N	0604258N/	20612/Surface Targets Development								
COST (\$ in Millions)	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Cost
Project Cost	1.065	1.117	1.149							
RDT&E Articles Qty										

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.

FY 2000 ACCOMPLISHMENTS:

- (\$40) Continued Requirements Study Update. (Oct 99- Sep 00)
- (\$170) Continued Weapons System/Emitter, TAS Upgrade. (Oct 99-Sep 00)
- (\$53) Continued Target/Threat Characterization and Validation. (Oct 99-Sep 00)
- (\$272) Continued Command and Control System Upgrade Development. (Oct 99- Sep 00)
- (\$290) Continued development of Target Scoring System. (Oct 99-Sep 00)
- (\$240) Procured prototype off-the-shelf boat for testing and evaluation of enhanced HSMST. (Oct 99-Sep 00)

FY 2001 PLAN:

- (\$45) Continue Requirements Study Update. (Oct 00-Sep 01)
- (\$180) Continue Weapons System/Emitter, TAS Upgrade. (Oct 00-Sep 01)
- (\$60) Continue Target/Threat Characterization and Validation. (Oct 00-Sep 01)
- (\$290) Continue Command and Control System Upgrade Development. (Oct 00-Sep 01)
- (\$297) Continue development of Target Scoring System. (Oct 00-Sep 01)
- (\$242) Procure prototype off-the-shelf boat for testing and evaluation of enhanced HSMST. (Oct 00-Sep 01)
- (\$3) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 68.

FY 2002 PI AN:

- (\$50) Continue Requirements Study Update. (Oct 01-Sep 02)
- (\$185) Continue Weapons System/Emitter, TAS Upgrade. (Oct 01-Sep 02)
- (\$65) Continue Target/Threat Characterization and Validation. (Oct 01-Sep 02)
- (\$295) Continue Command and Control System Upgrade Development. (Oct 01-Sep 02)
- (\$310) Continue development of Target Scoring System. (Oct 01-Sep 02)
- (\$244) Procure prototype off-the-shelf boat for testing and evaluation of enhanced HSMST. (Oct 01-Sep 02)

R-1 SHOPPING LIST - Item No. 152

Exhibit R-2a, RDT&E Project Justification

(Exhibit R-2a, page 2 of 10

CLASSIFICATION:

UNCLASSIFIED

EXHII	BIT R-2a, RDT&E Proj	ect Justifi	cation				DATE:	June 2001
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMEN	IT NAME A	ND NUMBER		PROJECT N	AME AND NUM	/BER	
RDT&E, N	0604258N/Targe	t System	s Developme	nt	20612/Surfac	ce Targets Deve	elopment	
B. Program Change Summary:	FY 2000	F	Y 2001	FY 2	2002			
FY 2001 President's Budget:	1 .094		1.127	1	.165			
Adjustments from President's Budget :	-0.029		-0.010	-(0.016			
FY 2002 President's Budget Submit:	1 .065		1.117	1	,149			
CHANGE SUMMARY EXPLANATION:								
	ease of -\$0.010 consists of ease of -\$0.016 is due to re	-\$0.008 if f	or Congression r	eduction	s (Pro-Rata r	eduction and R	ecission).	
OPN Line 545500 ASW Range Support Equipment	6,292	6,841	6,012					
Related RDT&E: Not applicable								
D. ACQUISITION STRATEGY: Not applicable								
E. SCHEDULE PROFILE: Not applicable								

R-1 SHOPPING LIST - Item No. 152

Exhibit R-2a, RDT&E Project Justification (Exhibit R-2a, page 3 of 10)

CLASSIFICATION: UNCLASSIFIED

		EXHI	IBIT R-2a, F	RDT&E Proje	ct Justificati	on				DATE:					
<u> </u>								_			Ju	ne 2001			
-	V/BUDGET ACTIVITY				_	BER AND NAM	1E		IMBER AND N						
RDT&E, N /	BA-6	C		arget Systems	Development	(TSD)		A0609 Aerial	Target System	ns Developmen	nt				
			Prior										Total		
	COST (\$ in Millions)		Year Cost	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Program		
Project Cost				31.425	29.795	36.751									
•	- Otr. N. (A. 11)														
RDT&E Articles	S Qty Not Appli DESCRIPTION AND BUDGE			NA	NA	NA									
(U) B. PROGRAM ACCOMPLISHMENTS: 1. FY 2000 ACCOMPLISHMENTS: -(U) (\$14.663) Initiated Subsonic Subscale Aerial Target (SSAT) Development. -(U) (\$0.674) Continued Target Threat Characterization (TTC). -(U) (\$1.059) Continued Target Augmentation and Auxillary Systems (TA/AS) development. -(U) (\$13.111) Continued Supersonic Sea Skimming Target (SSST) development. -(U) (\$1.918) Continued Target Support.															
	2. FY 2001 PLANS:														
-(U) (\$13.776) Continued Subsonic Subscale Aerial Target (SSAT) Development -(U) (\$1.477) Continue Target Threat Characterization (TTC). -(U) (\$1.878) Continue Target Augmentation and Auxillary Systems (TA/AS) development. -(U) (\$10.000) Continue Supersonic Sea Skimming Target (SSST) development. -(U) (\$1.822) Continue Target Support. -(U) (\$0.842) Protion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 68.															
	3. FY 2002 PLANS:														
	-(U) -(U) -(U) -(U) -(U)	(\$1.288) C (\$4.003) C (\$12.078) C	Continue Target Continue Target	Threat Character Augmentation a Sonic Sea Skimn	erization (TTC). nd Auxillary Sys	AT) Developmen stems (TA/AS) de ST) development	evelopment.								

CLASSIFICATION:

EXH	IIBIT R-2a, RDT&	E Project Ju	stification		DATE:	
					June 2001	
PPROPRIATION/BUDGET ACTIVITY	PROGRAM E	PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND NAME				
RDT&E, N / BA-6	0604258N T	arget Systems	Development (TSD)	A0609 Aerial Target System	ns Development	
(U) C. PROGRAM CHANGE SUMMARY:						
	FY2000	FY2001	FY2002			
(U) FY 2001 President's Budget:	32.697	30.118	34.801			
(U) Adjustments from the President's Budget		-0.323	1.950			
(U) FY 2002 President's Budget submit:	31.425	29.795	36.751			
U) Funding: FY 2000 net decrease of 1.272 millis \$.115 million for a Congressional Reduction; offse million for a reprioritization of requirements within of \$3.000 million for the SSST Program offset by assumptions.	et by an increase of \$. the Nav <mark>ynd a decreas</mark>	.215 million rea se of \$.066 mill	lignment from A0610. Find for Congressional Re	Y 2001 net decrease <mark>\$d⁵23</mark> million ecission. FY 2002 net increase of	consists of a decrease of \$.257 \$1.950 million consists of an increase	
(U) Schedule: Not required.						
(U) Technical: Not required.						
U) E. OTHER PROGRAM FUNDING SUMMARY:	2000 FV 2004	EV 0000				
	2000 FY 2001 .242 58.351	FY 2002 66.349				
220000 WFIN 45	.242 30.331	00.349				

Related RDT&E

(U) P.E. 0207161N (Tactical Air Intercept)

(U) P.E. 0207163N (Advanced Medium Range Air-to-Air Missile)

(U) F. ACQUISITION STRATEGY: Not required

(U) G. SCHEDULE PROFILE: Not required

CLASSIFICATION:

											DATE:				
Exhibit R-3 Cost Analysis (p	page 1)												June 2	001	
APPROPRIATION/BUDGET ACT	ΓΙVΙΤΥ		PROGRAM EL					PROJECT	NUN	MBER AND	NAME				
RDT&E, N / BA-6	1 -		0604258N Tar		evelopme			A0609 Aer			ns Developm	ent			
Cost Categories	Contract Method	Performing Activity &		Total PY s	FY 01		FY 01 Award	FY 02		FY 02 Award	FY 03	FY 03 Award	Cost to	Total	Target Value
	& Type	Location		Cost	Cost		Awaru Date	Cost		Date	Cost	Date	Complete	Cost	of Contract
SSAT	C/CPIF	Northrop-Grumm		16.210		9.964	Various		.507	12/01					
SSST (Follow-On) 1)	SS/CPIF	Orbital Sciences	Corp.,	18.135	5	8.200	02/01	10.	.000	11/01					
		Chandler,AZ.													
SSST (Precision Guidance)	CPFF	McDonnell Doug	glas Corp.	4.389)	1.200	06/01	0.	.000						
		St. Louis, MO.													
Miscellaneous Contracts	Various	Various		27.586	6	2.128	Various		.926	Various					
Miscellaneous (NAWC/Other)	WXs	Various		49.075		3.729	Various		.424	Various					
Subtotal Product Development				115.395	5 2	25.221		31.	.857						
				1											
Miscellaneous (HQ/NAWC)	Various	Various		1.232	2	0.561	Various	0.	.367	Various					
Subtotal Support				1.232	2	0.561		0.	.367						
Remarks:															

CLASSIFICATION:

										DATE:				
Exhibit R-3 Cost Analysis (pa	ge 2)											June 2	001	
APPROPRIATION/BUDGET ACTIV	/ITY		PROGRAM E	LEMEN	Т			PROJECT NU	JMBER AND I	NAME				
RDT&E, N / BA-6			0604258N Ta		stems Develop			A0609 Aerial		ms Developm				
Cost Categories	Contract	Performing		Total			FY 01		FY 02		FY 03			
	Method	Activity &		PY s	FY 01		Award	FY 02	Award	FY 03	Award	Cost to	Total	Target Value
	& Type	Location		Cost	Cost		Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Miscellaneous (NAWCs)	Various	Various			8.382	1.929	Various	2.570	Various					
SBIR assessment						0.842								
Subtotal T&E					8.382	2.771		2.570)					
Remarks:														
Miscellaneous (HQ/NAWCs)	Various	Various			5.764	1.242	Various	1.957	Various					
Miscellaneous (HQ/NAWCs)	various	various			5.764	1.242	various	1.937	vanous					
Subtotal Management					5.764	1.242		1.957	,					
Remarks:														
	T	1		T		1		1	T	T	ı	ľ		
Total Cost					130.773	29.795		36.751						
Remarks:														
	·	·	·		CLIODDING			4.50						· · · · · · · · · · · · · · · · · · ·

CLASSIFICATION:

	EXHIBIT R-2a, RDT&E Project Justification												
									Ju	ne 2001			
APPROPRIATION/BUDGET ACTIVITY	AME												
RDT&E, N / BA-6	E Dev/Procure	ement											
	Prior										Total		
COST (\$ in Millions)	Year Cost	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Program		
Project Cost		19.102	9.787	11.611									
RDT&E Articles Qty		9	3	3									

⁽U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This project provides for the development and procurement of aerial targets used solely 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 a 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 systems.

(U) B. PROGRAM ACCOMPLISHMENTS AND PLANS:

1. FY 2000 ACCOMP	PLISHMENTS:
-(U)	(\$18.219) Programmed engineering and logistic support for the FSAT, including Aviation Depot Level Repairables (AVDLR), procurement of kit material and conversion of nine F-4S aircraft into FSAT targets.
-(U)	(\$0.562) Continued T & E TA/AS Vector Scoring development/procurement/support.
-(U)	(\$0.181) Continued VANDAL support.
-(U)	(\$0.140) Continued Target Support.
2. FY 2001 PLANS:	
-(U)	(\$8.222) Continue program, engineering and logistic support for the FSAT, including Aviation Depot Level Repairables (AVDLR), procurement of kit material and conversion of three F-4S aircraft into FSAT targets.
-(U)	(\$1.004) Continue T & E TA/AS Vector Scoring development/procurement/support.
-(U)	(\$0.202) Continue VANDAL support.
-(U)	(\$0.272) Continue Target Support.
-(U)	(\$0.087) Protion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 68.
3. FY 2002 PLANS:	
-(U)	(\$8.728) Continue Program, engineering and logistic support for the FSAT, including Aviation Depot Level Repairables (AVDLR), procurement of kit material and conversion of three F-4S aircraft into FSAT targets.
-(U)	(\$2.261) Continue T & E TA/AS Vector Scoring development/procurement/support.
-(U)	(\$0.200) Continue VANDAL support.
-(U)	(\$0.422) Continue Target Support .

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification					DATE:
					June 2001
APPROPRIATION/BUDGET ACTIVITY	PROGRAM E	LEMENT NUM	MBER AND NAME	PROJECT NUMBER AND	O NAME
RDT&E, N / BA-6	0604258N	Target System	s Development (TSD)	T&E Development/Procurement	
(U) C. PROGRAM CHANGE SUMMARY:					
(0) 0.1110010 010 010 010 000					
	FY2000	FY2001	FY2002		
(U) FY 2001 President's Budget:	21.169	9.893	15.239		
(U) Adjustments from the President's Budget:	-2.067	-0.106	-3.628		
(U) FY 2002 President's Budget Submit:	19.102	9.787	11.611		
(U) D. CHANGE SUMMARY EXPLANATION:					

(U) Funding: FY2000 net decrease of \$2.067 million consists of a decrease of \$1.727 million for reprioritization of requirements within the Navy, a decrease of \$2.15 million for realignment to A060 a decrease of \$0.041 million for SBIR reduction, and \$0.084 million for Congressional Reduction. FY2001 net decrease \$1.060 consists of a decrease of \$0.084 million for reprioritation of requirements within the Navy and \$0.022 for Congressional Recission. FY2002 net decrease of \$0.084 million consists of a decrease of \$0.000 to be realigned to the SSST Program, a decrease of \$0.000 million for reprioritization of requirements within the Navand a decrease of \$0.000 million for ecomomic assumptions.

(U) E. OTHER PROGRAM FUNDING SUMMARY: Not applicable.

Related RDT&E

- (U) P.E. 0207161N (Tactical Air Intercept)
- (U) P.E. 0207163N (Advanced Medium Range Air-to-Air Missile)
- (U) F. ACQUISITION STRATEGY: This is a non-ACAT program with no specific acquisition strategies.
- (U) G. SCHEDULE PROFILE: Not required

CLASSIFICATION:

									DATE:				
Exhibit R-3 Cost Analysis (pa		I					T				June 2	001	
APPROPRIATION/BUDGET ACTIV	/ITY	PROGRAM					PROJECT NU						
RDT&E, N / BA-6	0		Target Systems [evelopr			A0610 Weapo	ns Systems 1 FY 02	& E Develo		ment		
Cost Categories	Contract Method	Performing Activity &	Total PY s	FY 01		Y 01 ward		Award	FY 03	FY 03 Award	Cost to	Total	Target Value
	& Type	Location	Cost	Cost		ate		Date	Cost	Date	Complete	Cost	of Contract
Vector Scorer Development	SS/FFP	Aeronautical Systems Cen			0.850	07/01	1.776		0001	Dato	Complete	0001	or contract
		Eglin AFB,FL											
Miscellaneous contracts	Various	Various	23.640)	0.361	Various	0.373	Various					
Miscellaneous (NAWC/NADEP)	WXs	Various	83.19	2	8.073	Various	8.743	Various					
Subtotal Product Development			107.80	1	9.284		10.892						
Miscellaneous(HQ/NAWC/NADEP)	Various	Various	4.642	2	0.305	Various	0.487	Various					
Subtotal Support			4.642	2	0.305		0.487						
Remarks:													