

CLASSIFICATION:

**UNCLASSIFIED**

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: <b>February 2005</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY / BA-6</b>					R-1 ITEM NOMENCLATURE 0604258N/Target Systems Development			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	34.821	35.325	52.963	46.516	43.288	47.982	49.093	51.004
0609 Aerial Target Systems Development	25.184	23.439	26.546	30.588	23.337	15.008	12.904	9.140
0610 Wpn Sysys T&E Development/Procurement	8.627	10.934	23.408	14.713	18.683	30.655	34.013	40.481
0612 Surface Targets Development	0.855	0.952	3.009	1.215	1.268	2.319	2.176	1.383
3045 Terrier/SSST	0.155	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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. This requirement is necessary to support weapons systems test and evaluation and 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 (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 Extended Range testing and procurement of TA/AS Vector Scoring.

**UNCLASSIFIED**

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2005</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0604258N/Target Systems Development				PROJECT NUMBER AND NAME 0609/Aerial Target Systems Development			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	25.184	23.439	26.546	30.588	23.337	15.008	12.904	9.140
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 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 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.

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE: <b>February 2005</b>																
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0604258N/Target Systems Development	PROJECT NUMBER AND NAME 0609/Aerial Target Systems Development																	
<b>B. Accomplishments/Planned Program</b>																			
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;"></th><th style="width: 15%;">FY 04</th><th style="width: 15%;">FY 05</th><th style="width: 15%;">FY 06</th><th style="width: 15%;">FY 07</th></tr></thead><tbody><tr><td>Continued Subsonic Subscale Aerial Target Dev.</td><td style="text-align: center;">13.387</td><td style="text-align: center;">11.395</td><td style="text-align: center;">6.123</td><td style="text-align: center;">1.747</td></tr><tr><td>RDT&amp;E Articles Quantity</td><td></td><td></td><td></td><td></td></tr></tbody></table>						FY 04	FY 05	FY 06	FY 07	Continued Subsonic Subscale Aerial Target Dev.	13.387	11.395	6.123	1.747	RDT&E Articles Quantity				
	FY 04	FY 05	FY 06	FY 07															
Continued Subsonic Subscale Aerial Target Dev.	13.387	11.395	6.123	1.747															
RDT&E Articles Quantity																			
Continue Subsonic Subscale Aerial Target (SSAT) Development, including product improvements to the existing SSAT (upgraded engine, swept wing configuration and fuselage upgrades).																			
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;"></th><th style="width: 15%;">FY 04</th><th style="width: 15%;">FY 05</th><th style="width: 15%;">FY 06</th><th style="width: 15%;">FY 07</th></tr></thead><tbody><tr><td>Continued Target Augmentation and Auxillary System</td><td style="text-align: center;">2.354</td><td style="text-align: center;">5.012</td><td style="text-align: center;">5.888</td><td style="text-align: center;">6.044</td></tr><tr><td>RDT&amp;E Articles Quantity</td><td></td><td></td><td></td><td></td></tr></tbody></table>						FY 04	FY 05	FY 06	FY 07	Continued Target Augmentation and Auxillary System	2.354	5.012	5.888	6.044	RDT&E Articles Quantity				
	FY 04	FY 05	FY 06	FY 07															
Continued Target Augmentation and Auxillary System	2.354	5.012	5.888	6.044															
RDT&E Articles Quantity																			
Continue Target Augmentation and Auxillary Systems (TA/AS) development.																			
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;"></th><th style="width: 15%;">FY 04</th><th style="width: 15%;">FY 05</th><th style="width: 15%;">FY 06</th><th style="width: 15%;">FY 07</th></tr></thead><tbody><tr><td>Supersonic Sea Skimming Target (SSST)</td><td style="text-align: center;">9.443</td><td style="text-align: center;">7.032</td><td style="text-align: center;">14.535</td><td style="text-align: center;">22.797</td></tr><tr><td>RDT&amp;E Articles Quantity</td><td></td><td></td><td></td><td></td></tr></tbody></table>						FY 04	FY 05	FY 06	FY 07	Supersonic Sea Skimming Target (SSST)	9.443	7.032	14.535	22.797	RDT&E Articles Quantity				
	FY 04	FY 05	FY 06	FY 07															
Supersonic Sea Skimming Target (SSST)	9.443	7.032	14.535	22.797															
RDT&E Articles Quantity																			
Complete GQM-163A SSST Engineering and Manufacturing Development and initiate Block Upgrades/evolutionary development to keep pace with evolving threat and associated ORD requirements. Efforts include: (1)-Initiate development of salvo firing and multiple target control capabilities. (2)-Conduct alternative booster system study and initiate alternative booster system development. (3)-Continue improvement of system deficiencies identified during EMD. (4)-Conduct Aerial Target Launch Ship (ATLS) integration. (5)-Develop improved telemetry transmission capabilities. Continue SSST Threat-D study to reduce the risk of developing a cost-effective alternative to meet Threat D requirements and down-select the best candidate target system. This study advances the prospect of developing a low risk Threat D target system using either domestic or foreign acquisition approaches.																			

R-1 SHOPPING LIST - Item No.

143

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE: <b>February 2005</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0604258N/Target Systems Development	PROJECT NUMBER AND NAME 0609/Aerial Target Systems Development		

**C. PROGRAM CHANGE SUMMARY:**

Funding:	FY 04	FY 05	FY 06	FY 07
Previous President's Budget:	21.942	23.660	31.336	31.428
Current President's Budget	25.184	23.439	26.546	30.588
Total Adjustments	3.242	-0.221	-4.790	-0.840
Summary of Adjustments				
Congressional program reductions				
Congressional undistributed reductions		-0.216		
Congressional rescissions				
SBIR/STTR Transfer	-0.371			
Program Adjustments		-0.005	-5.088	-1.244
Economic Assumptions	-0.020		0.298	0.404
Reprogrammings	3.633			
Congressional increases				
Subtotal	3.242	-0.221	-4.790	-0.840

Schedule:

Not Applicable.

  
  

Technical:

Not Applicable.

R-1 SHOPPING LIST - Item No. 143

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:		<b>February 2005</b>	
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME					
<b>RDT&amp;E, N / BA-6</b>			0604258N/Target Systems Development			0609/Aerial Target Systems Development					
<b>D. OTHER PROGRAM FUNDING SUMMARY:</b>											
<u>Line Item No. &amp; Name</u>	<u>FY 2004</u>	<u>FY 2005</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>To Complete</u>	<u>Total Cost</u>	
WPN 228000 Aerial Targets	74.282	72.405	101.882	83.045	80.156	81.961	83.815	85.710	Continuing	Continuing	
WPN 612020 Initial Spares - Aerial Targets	0.832	0.768	4.039	3.879	4.534	0.710	0.490	0.490	Continuing	Continuing	

R-1 SHOPPING LIST - Item No. 143

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2005</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0604258N/Target Systems Development				PROJECT NUMBER AND NAME 0610/Weapons Systems T&E Development Procurement			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	8.627	10.934	23.408	14.713	18.683	30.655	34.013	40.481
RDT&E Articles Qty	4	3	9	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, 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.

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE: <b>February 2005</b>																																														
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0604258N/Target Systems Development	PROJECT NUMBER AND NAME 0610/Weapons Systems T&E Development Procurement																																															
<b>B. Accomplishments/Planned Program</b>																																																	
<table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <tr> <th style="width: 30%;"></th> <th style="width: 15%;">FY 04</th> <th style="width: 15%;">FY 05</th> <th style="width: 15%;">FY 06</th> <th style="width: 15%;">FY 07</th> </tr> <tr> <td>Continue Full Scale Aerial Target support</td> <td>8.579</td> <td>9.199</td> <td>19.507</td> <td>10.684</td> </tr> <tr> <td>RDT&amp;E Articles Quantity</td> <td>4</td> <td>3</td> <td>9</td> <td>4</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <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 three F-4 aircraft into FSAT targets. The Navy began joint procurement of QF-4 T&amp;E assets with USAF in FY03.</p> </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <tr> <th style="width: 30%;"></th> <th style="width: 15%;">FY 04</th> <th style="width: 15%;">FY 05</th> <th style="width: 15%;">FY 06</th> <th style="width: 15%;">FY 07</th> </tr> <tr> <td>Continue T&amp;E TAAS Vector Scorer</td> <td>0.048</td> <td>1.250</td> <td>1.750</td> <td>2.250</td> </tr> <tr> <td>RDT&amp;E Articles Quantity</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>Target Augmentation and Auxillary 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&amp;E Target Augmentation and Auxillary Systems (TA/AS) Vector Scorer development/procurement/support.</p> </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <tr> <th style="width: 30%;"></th> <th style="width: 15%;">FY 04</th> <th style="width: 15%;">FY 05</th> <th style="width: 15%;">FY 06</th> <th style="width: 15%;">FY 07</th> </tr> <tr> <td>Support of follow-on FSAT development</td> <td></td> <td>0.485</td> <td>2.151</td> <td>1.779</td> </tr> <tr> <td>RDT&amp;E Articles Quantity</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px;"> <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> </div>						FY 04	FY 05	FY 06	FY 07	Continue Full Scale Aerial Target support	8.579	9.199	19.507	10.684	RDT&E Articles Quantity	4	3	9	4		FY 04	FY 05	FY 06	FY 07	Continue T&E TAAS Vector Scorer	0.048	1.250	1.750	2.250	RDT&E Articles Quantity						FY 04	FY 05	FY 06	FY 07	Support of follow-on FSAT development		0.485	2.151	1.779	RDT&E Articles Quantity				
	FY 04	FY 05	FY 06	FY 07																																													
Continue Full Scale Aerial Target support	8.579	9.199	19.507	10.684																																													
RDT&E Articles Quantity	4	3	9	4																																													
	FY 04	FY 05	FY 06	FY 07																																													
Continue T&E TAAS Vector Scorer	0.048	1.250	1.750	2.250																																													
RDT&E Articles Quantity																																																	
	FY 04	FY 05	FY 06	FY 07																																													
Support of follow-on FSAT development		0.485	2.151	1.779																																													
RDT&E Articles Quantity																																																	

R-1 SHOPPING LIST - Item No.

143

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>February 2005</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0604258N/Target Systems Development	PROJECT NUMBER AND NAME 0610 Weapons Systems T&E Development Procurement

**C. PROGRAM CHANGE SUMMARY:**

Funding:	FY 04	FY 05	FY 06	FY 07
Previous President's Budget:	11.547	11.049	9.238	10.361
Current President's Budget	8.627	10.934	23.408	14.713
Total Adjustments	-2.920	-0.115	14.170	4.352
Summary of Adjustments				
Congressional program reductions				
Congressional undistributed reductions		-0.112		
Congressional rescissions				
SBIR/STTR Transfer	-0.088			
Program Adjustments		-0.003	13.933	4.160
Economic Assumptions			0.237	0.192
Reprogrammings	-2.832			
Congressional increases				
Subtotal	-2.920	-0.115	14.170	4.352

Schedule:

Not Applicable.

Technical:

Not Applicable.

R-1 SHOPPING LIST - Item No. 143

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2005</b>			
APPROPRIATION/BUDGET ACTIVITY <b>RDTE&amp;E, N / BA-6</b>		PROGRAM ELEMENT NUMBER AND NAME 0604258N/Target Systems Development			PROJECT NUMBER AND NAME 0610/Weapons Systems T&E Development/Procurement					
<b>D. OTHER PROGRAM FUNDING SUMMARY:</b>										
<u>Line Item No. &amp; Name</u>	<u>FY 2004</u>	<u>FY 2005</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>Complete</u>	<u>Cost</u>
WPN 228000 Aerial Targets	74.282	72.405	101.882	83.045	80.156	81.961	83.815	85.710	Continuing	Continuing
WPN 612020 Initial Spares - Aerial Targets	0.832	0.768	4.039	3.879	4.534	0.710	0.490	0.490	Continuing	Continuing

R-1 SHOPPING LIST - Item No. 143

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2005</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0604258N/Target Systems Development				PROJECT NUMBER AND NAME 0612/Surface Targets Development			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	0.855	0.952	3.009	1.215	1.268	2.319	2.176	1.383
RDT&E Articles Qty	1	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.

143

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE: <b>February 2005</b>																
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0604258N/Target Systems Development	PROJECT NUMBER AND NAME 0612/Surface Targets Development																	
<b>B. Accomplishments/Planned Program</b>																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%;"></th> <th style="width: 15%;">FY 04</th> <th style="width: 15%;">FY 05</th> <th style="width: 15%;">FY 06</th> <th style="width: 15%;">FY 07</th> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td style="text-align: center;">0.192</td> <td style="text-align: center;">0.202</td> <td style="text-align: center;">0.235</td> <td style="text-align: center;">0.249</td> </tr> <tr> <td>RDT&amp;E Articles Quantity</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						FY 04	FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost	0.192	0.202	0.235	0.249	RDT&E Articles Quantity				
	FY 04	FY 05	FY 06	FY 07															
Accomplishments/Effort/Subtotal Cost	0.192	0.202	0.235	0.249															
RDT&E Articles Quantity																			
<div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> <li>-Continued requirements Study/Analysis of target requirements in response to weapons systems development and upgrades.</li> <li>-Continued development of real-time surface target scoring systems, including move to vector scorer.</li> <li>-Continued command and control upgrade development.</li> <li>-Continued Weapons System/Emitter, Target Augmentation System (TAS) upgrade.</li> <li>-Continued Target/Threat Characterization and Validation.</li> </ul> </div>																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%;"></th> <th style="width: 15%;">FY 04</th> <th style="width: 15%;">FY 05</th> <th style="width: 15%;">FY 06</th> <th style="width: 15%;">FY 07</th> </tr> <tr> <td>Accomplishments/Effort/Subtotal Cost</td> <td style="text-align: center;">0.663</td> <td style="text-align: center;">0.750</td> <td style="text-align: center;">2.774</td> <td style="text-align: center;">0.966</td> </tr> <tr> <td>RDT&amp;E Articles Quantity</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> </table>						FY 04	FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost	0.663	0.750	2.774	0.966	RDT&E Articles Quantity	1	1	1	1
	FY 04	FY 05	FY 06	FY 07															
Accomplishments/Effort/Subtotal Cost	0.663	0.750	2.774	0.966															
RDT&E Articles Quantity	1	1	1	1															
<div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> <li>-Procured prototype 50 foot - 50 knot Fast Attack Craft Target (FACT) for testing and evaluation of concept validation.</li> <li>-Complete evaluation and finalize configuration for FACT production.</li> <li>-Finalize reports and prepare procurement recommendations to sponsors.</li> <li>-Procured QST-35i, a 60 foot candidate replacement for QST-35A.</li> <li>-Evaluate suitability of QST-35i and develop procurement package for follow-on production.</li> <li>-Update design package for medium (40M) Coastal Patrol Craft threat in FY05.</li> <li>-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.</li> <li>-Conduct testing of small, high-speed, missile capable patrol craft threat,</li> <li>-Complete high-speed (&gt;45 knots) tow platform to be utilized in conjunction with small high-speed patrol craft threat to enhance platform survivability.</li> </ul> </div>																			

R-1 SHOPPING LIST - Item No.

143

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification						DATE: <b>February 2005</b>				
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>		PROGRAM ELEMENT NUMBER AND NAME 0604258N/Target Systems Development			PROJECT NUMBER AND NAME 0612/Surface Targets Development					
<b>C. PROGRAM CHANGE SUMMARY:</b>										
Funding:		FY 2004	FY2005	FY 2006	FY2007					
Previous President's Budget: (FY05 Pres Controls)		0.855	0.968	0.990	1.190					
Current President's Budget: (FY06 Pres Controls)		0.855	0.952	3.009	1.215					
Total Adjustments		0.000	-0.016	2.019	0.025					
Summary of Adjustments										
Congressional Reductions			-0.016							
Program Adjustments				2.019	0.025					
Subtotal			-0.016	2.019	0.025					
Schedule:										
Not applicable										
Technical:										
Not applicable										
<b>D. OTHER PROGRAM FUNDING SUMMARY:</b>										
	<u>FY 2004</u>	<u>FY 2005</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>To Complete</u>	<u>Total Cost</u>
OPN Line 545500 ASW Range Spt Equipment	10.171	7.131	7.232	7.248	7.454	7.607	8.107	8.278		63.228
<b>E. ACQUISITION STRATEGY:</b>										
Not applicable										
R-1 SHOPPING LIST - Item No.143										

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2005</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0604258N TARGET SYSTEMS DEVELOPMENT (TSD)				PROJECT NUMBER AND NAME 3045 Terrier/SSST			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	0.155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
RDT&E Articles Qty								

### A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This project funds the Terrier Supersonic Sea Skimming Target (SSST) development to provide both a low-fidelity and a moderate-fidelity Terrier Missile Target (TMT) for Fleet training against a supersonic sea skimming threat. Major efforts involve integrating a Flight Termination System (FTS), running 6-DOF simulations, recertifying rocket motors, modifying the launch control system, modifying the initialization code, and the build up and firing of rounds.

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE: <b>February 2005</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0604258N TARGET SYSTEMS DEVELOPMENT (TSD)	PROJECT NUMBER AND NAME 3045 Terrier/SSST		
<b>B. Accomplishments/Planned Program</b>				
	FY 04	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.155			
RDT&E Articles Quantity				
<p>Efforts include: Integration of a Flight Termination System (FTS), 6-DOF simulations, rocket motors recertification, and modification of the launch control system and the initializer for the low-fidelity Terrier SSST configuration.</p>				

R-1 SHOPPING LIST - Item No.

143

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE: <b>February 2005</b>																																																			
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-6</b>	PROGRAM ELEMENT NUMBER AND NAME 0604258N TARGET SYSTEMS DEVELOPMENT (TSD)	PROJECT NUMBER AND NAME 3045 Terrier/SSST																																																				
<p><b>C. PROGRAM CHANGE SUMMARY:</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 40%;"></th> <th style="text-align: right; width: 10%;">FY 2004</th> <th style="text-align: right; width: 10%;">FY 2005</th> <th style="text-align: right; width: 10%;">FY 2006</th> <th style="text-align: right; width: 10%;">FY 2007</th> </tr> </thead> <tbody> <tr> <td>Funding:</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Previous President's Budget: (FY05 Pres Controls)</td> <td style="text-align: right;">2.875</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> </tr> <tr> <td>Current President's Budget: (FY06 Pres Controls)</td> <td style="text-align: right;">0.155</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> </tr> <tr> <td>Total Adjustments</td> <td style="text-align: right; border-top: 1px solid black;">-2.720</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> </tr> <tr> <td colspan="5" style="padding-top: 10px;">Summary of Adjustments</td> </tr> <tr> <td>    SBIR</td> <td style="text-align: right;">-0.071</td> <td></td> <td></td> <td></td> </tr> <tr> <td>    Congressional Reductions</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>    Execution Realignment</td> <td style="text-align: right;">-2.649</td> <td></td> <td></td> <td></td> </tr> <tr> <td>    Subtotal:</td> <td style="text-align: right; border-top: 1px solid black;">-2.720</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> </tr> </tbody> </table> <p style="margin-top: 20px;"><b>D. OTHER PROGRAM FUNDING SUMMARY: Not Applicable</b></p> <p style="margin-top: 20px;"><b>E. ACQUISITION STRATEGY: * Not Applicable</b></p>						FY 2004	FY 2005	FY 2006	FY 2007	Funding:					Previous President's Budget: (FY05 Pres Controls)	2.875	0.000	0.000	0.000	Current President's Budget: (FY06 Pres Controls)	0.155	0.000	0.000	0.000	Total Adjustments	-2.720	0.000	0.000	0.000	Summary of Adjustments					SBIR	-0.071				Congressional Reductions					Execution Realignment	-2.649				Subtotal:	-2.720	0.000	0.000	0.000
	FY 2004	FY 2005	FY 2006	FY 2007																																																		
Funding:																																																						
Previous President's Budget: (FY05 Pres Controls)	2.875	0.000	0.000	0.000																																																		
Current President's Budget: (FY06 Pres Controls)	0.155	0.000	0.000	0.000																																																		
Total Adjustments	-2.720	0.000	0.000	0.000																																																		
Summary of Adjustments																																																						
SBIR	-0.071																																																					
Congressional Reductions																																																						
Execution Realignment	-2.649																																																					
Subtotal:	-2.720	0.000	0.000	0.000																																																		

R-1 SHOPPING LIST - Item No. 143