

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification								DATE: <b>June 2001</b>			
APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY / BA-7</b>						R-1 ITEM NOMENCLATURE 0204229N Tomahawk and Theater Mission Planning Center					
COST (\$ in Millions)	Prior Years Cost	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Total PE Cost		137.445	90.461	76.036							
A0545 Tomahawk		135.640	88.610	76.014							
A1784 Theatre Mission Planning Center	92.830	1.805	1.851	0.022							
Quantity of RDT&E Articles		EDM 10									

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

(U) The Tomahawk Weapons System (TWS) provides the Tomahawk cruise missile attack capability against targets on land (Tomahawk Land Attack Missile (TLAM)). The TLAM can be fitted with either Conventional unitary warhead (TLAM/C), Nuclear warhead (TLAM/N) or submunition Dispenser (TLAM/D). This program ensures that the TWS exploits state-of-the-art technology to preserve the efficiency of this proven weapon system.

(U) The Tomahawk project includes all missile development, mission planning system development, and submarine and surface ship weapons control development.

(U) The Tactical Tomahawk (TT) missile development covered by this budget provides a comprehensive baseline upgrade to the TWS. The TT weapons program will provide the tactical commander a quick reaction response capability as well as improved flexibility, accuracy, and lethality.

(U) This budget provides for the Tomahawk Command and Control System (TC2S) Theater Mission Planning Center (TMPC) and Afloat Planning System (APS), a shipboard version of TMPC. TMPC and APS provide mission planning and employment support information for both the nuclear (TMPC only) and conventional TLAM. This project also supports the distribution of mission data and command information essential to TLAM employment via the Mission Distribution System (MDS) and associated communications infrastructure. TMPC and APS software development decreases mission planning time and increases the quality and accuracy of each mission for Block II and III TLAM. The development of Tactical Tomahawk capabilities in TMPC/APS/MDS includes software development, integration, test, and delivery; support for TECHEVAL and OPEVAL; development of training; installation planning; and simulation/model development required by COMOPTEVFOR to offset live missile flights in TECHEVAL and OPEVAL. This project includes development required by future national and tactical imagery architectures.

R-1 SHOPPING LIST - Item No. 183

UNCLASSIFIED

Exhibit R-2, RD TEN Budget Item Justification  
(Exhibit R-2, page 1 of 14)

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification		DATE: <b>June 2001</b>
APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY /</b>	<b>BA-7</b>	R-1 ITEM NOMENCLATURE 0204229N Tomahawk and Theatre Mission Planning Center
<p>(U) The Tomahawk Weapons Control System provides launch capability for surface and submarine platforms. Surface Advanced Tomahawk Weapons Control System (ATWCS) Launch Control Group Replacement (LCGR) completed Initial Operational Capability (IOC) in FY00. Submarine ATWCS Block 1/C Mod 0/1 completed IOC in FY01. Tactical Tomahawk Weapons Control System entered Engineering and Manufacturing Development (EMD) in FY99 with Phase A IOC planned for FY03.</p> <p>(U) These efforts provide battle-group tactical flexibility and responsiveness while maximizing TWS wartime capability.</p> <p>(U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under OPERATIONAL SYSTEMS DEVELOPMENT because it encompasses engineering and manufacturing development for upgrade of existing, operational systems.</p>		

R-1 SHOPPING LIST - Item No. 183

UNCLASSIFIED

Exhibit R-2, RD TEN Budget Item Justification  
(Exhibit R-2, page 2 of 14)

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE:				
		June 2001										
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME						
RDT&E, N / BA-7		0204229N TOMAHAWK AND THEATER MISSION PLANNING CENTER				A0545 TOMAHAWK						
COST (\$ in Millions)		Prior Years Cost	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost			135.640	88.610	76.014							
RDT&E Articles Qty			EDM 10									
(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:												
(U) The TOMAHAWK Cruise Missile has been designed to accurately attack land targets from seaborne platforms at great distances from the launch platform (Tomahawk Land-Attack Missile (TLAM)). The TLAM can be produced with either a single Conventional warhead (TLAM/C), a submunition Dispenser (TLAM/D), or a Nuclear warhead (TLAM/N).												
(U) The Tomahawk development program (Project A0545) contains all costs for the Tactical Tomahawk (TT) program including the missile, weapons control systems, both surface ship and submarine, and the Tomahawk Command and Control Systems (TC2S).												
(U) The TT missile development covered by this budget provides a comprehensive baseline upgrade to the Tomahawk Weapon System including the missile, weapons control systems, and mission planning systems. The upgrade will improve system flexibility, responsiveness, accuracy and lethality. The essential elements of the TT are upgrades to the guidance, navigation, control, and mission computer systems of the missile along with the associated Command and Control (C2) systems and weapons control systems. TT will provide a UHF Satcom data link to enable the missile to receive in-flight mission modification messages, to transfer health and status messages, and to broadcast Battle Damage Indication (BDI) messages. TT also includes a high anti-jam GPS receiver, navigation improvements including Precision Terrain Aided Navigation (PTAN), and associated antenna systems.												
(U) The weapons control development portion of the project is centered on the Tactical Tomahawk Weapons Control System (TTWCS), being introduced into the surface and submarine fleets. The TTWCS advancements are increased data throughput, thereby reducing the time needed to execute missile preparation and launch sequences, and improving strike coordination capabilities.												
(U) The development of TT capabilities in TC2S includes software development, integration, test, and delivery; support for TECHEVAL and OPEVAL; development of training; installation planning; and simulation/model development.												

R-1 SHOPPING LIST - Item No. 183

Exhibit R-2a, RDTEN Project Justification  
(Exhibit R-2a, page 3 of 14)

UNCLASSIFIED

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>June 2001</b>
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>	PROGRAM ELEMENT NUMBER AND NAME 0204229N TOMAHAWK AND THEATER MISSION PLANNING CENTER	PROJECT NUMBER AND NAME A0545 TOMAHAWK
<p>(U) PROGRAM ACCOMPLISHMENTS AND PLANS:</p> <p>1. FY 2000 ACCOMPLISHMENTS:</p> <p>(U) (\$97,534) Completed System Critical Design Review (CDR). Continued missile prototype fabrication and component-level Development Testing.</p> <p>(U) (\$38.106) Continued development of common launch and track control systems for surface ship and submarine platforms for the new Tactical Tomahawk baseline. Completed CDR leading to Development Testing of entire system in 2001.</p> <p>2. FY 2001 PLANS:</p> <p>(U) (\$44.659) Conduct Development, Integration and Qualification Testing of Tactical Tomahawk missile.</p> <p>(U) (\$18.915) Incorporate new capabilities in Tomahawk Command and Control systems necessary for the employment of the Tactical Tomahawk missile.</p> <p>(U) (\$23.234) Complete software development and begin Government Testing of Weapons Control System. Conduct Phase 1A Land Based System Integration Tests of redesigned surface and submarine Weapons Control Systems.</p> <p>(U) (\$1.802) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 68.</p> <p>3. FY 2002 PLANS:</p> <p>(U) (\$42.629) Conduct Contractor Flight Testing of missile. Complete missile Development, Integration and Qualification testing.</p> <p>(U) (\$19.530) Continue the incorporation of new capabilities in Tomahawk Command and Control systems necessary for the employment of Tactical Tomahawk. Support Tactical Tomahawk Weapon System TECHEVAL, and continue development of related training and installation materials.</p> <p>(U) (\$13.855) Complete Phase 1A land based tests of Weapons Control System. Initiate Weapons Control System TECHEVAL/OPEVAL for Phase 1A. Conduct Phase 1B Land Based and Sea Based System Integration Testing. I</p>		

R-1 SHOPPING LIST - Item No.

183

UNCLASSIFIED

Exhibit R-2a, RDTEEN Project Justification  
(Exhibit R-2a, page 4 of 14)

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>June 2001</b>																																												
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>	PROGRAM ELEMENT NUMBER AND NAME 0204229N TOMAHAWK AND THEATER MISSION PLANNING CENTER	PROJECT NUMBER AND NAME A0545 TOMAHAWK																																												
<p>(U) B. PROGRAM CHANGE SUMMARY:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: right;"><u>FY2000</u></th> <th style="text-align: right;"><u>FY2001</u></th> <th style="text-align: right;"><u>FY2002</u></th> </tr> </thead> <tbody> <tr> <td>(U) FY 2001 President's Budget:</td> <td style="text-align: right;">139.522</td> <td style="text-align: right;">89.565</td> <td style="text-align: right;">52.483</td> </tr> <tr> <td>(U) Adjustments from the President's Budget:</td> <td style="text-align: right;">(3.882)</td> <td style="text-align: right;">(0.955)</td> <td style="text-align: right;">23.531</td> </tr> <tr> <td>(U) FY 2002 President's Budget:</td> <td style="text-align: right;">135.640</td> <td style="text-align: right;">88.610</td> <td style="text-align: right;">76.014</td> </tr> </tbody> </table> <p>CHANGE SUMMARY EXPLANATION:</p> <p>(U) Funding:</p> <p>The FY 2000 net decrease of \$3.882 million consists of a decrease of \$2.842 million for Small Business Innovative Research assessment, a decrease of \$.480 million for reprioritization of requirements within the Navy, a \$0.547 million decrease for a Congressional Recission, and a decrease of \$0.013 million for Federal Technology Transfer.</p> <p>The FY 2001 net decrease of \$0.955 million consists of a \$0.627 million Congressional Reduction, a decrease of \$0.133 million for reprioritization of requirements within the Navy, and a decrease of \$0.195 million for a Congressional Recission.</p> <p>The FY 2002 net increase of \$23.531 million consists of an increase of \$13.205 million for Tactical Tomahawk development, an increase of \$7.5M to support missile EMD cost growth, restoration of \$2.800 million for TTWCS government testing, an increase of \$.600 million for TTWCS prototype training lab design, a decrease of \$.272 million for reprioritization of requirements within the Navy, and a decrease of \$0.302 million for economic assumptions.</p> <p>Schedule: Not Applicable</p> <p>(U) C. OTHER PROGRAM FUNDING SUMMARY:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Line Item No. &amp; Name</u></th> <th style="text-align: right;"><u>FY 2000</u></th> <th style="text-align: right;"><u>FY 2001</u></th> <th style="text-align: right;"><u>FY 2002</u></th> </tr> </thead> <tbody> <tr> <td>WPN BLI 210100 Tomahawk</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">50.101</td> </tr> <tr> <td>OPN BLI 525000 Surface Tomahawk</td> <td style="text-align: right;">43.543</td> <td style="text-align: right;">43.830</td> <td style="text-align: right;">36.808</td> </tr> <tr> <td>    Support Equipment</td> <td></td> <td></td> <td></td> </tr> <tr> <td>OPN BLI 525500 Submarine Tomahawk</td> <td style="text-align: right;">3.464</td> <td style="text-align: right;">2.833</td> <td style="text-align: right;">3.062</td> </tr> <tr> <td>    Support Equipment</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="4">Related RDT&amp;E,N: Not Applicable</td> </tr> </tbody> </table>				<u>FY2000</u>	<u>FY2001</u>	<u>FY2002</u>	(U) FY 2001 President's Budget:	139.522	89.565	52.483	(U) Adjustments from the President's Budget:	(3.882)	(0.955)	23.531	(U) FY 2002 President's Budget:	135.640	88.610	76.014	<u>Line Item No. &amp; Name</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	WPN BLI 210100 Tomahawk	0.000	0.000	50.101	OPN BLI 525000 Surface Tomahawk	43.543	43.830	36.808	Support Equipment				OPN BLI 525500 Submarine Tomahawk	3.464	2.833	3.062	Support Equipment				Related RDT&E,N: Not Applicable			
	<u>FY2000</u>	<u>FY2001</u>	<u>FY2002</u>																																											
(U) FY 2001 President's Budget:	139.522	89.565	52.483																																											
(U) Adjustments from the President's Budget:	(3.882)	(0.955)	23.531																																											
(U) FY 2002 President's Budget:	135.640	88.610	76.014																																											
<u>Line Item No. &amp; Name</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>																																											
WPN BLI 210100 Tomahawk	0.000	0.000	50.101																																											
OPN BLI 525000 Surface Tomahawk	43.543	43.830	36.808																																											
Support Equipment																																														
OPN BLI 525500 Submarine Tomahawk	3.464	2.833	3.062																																											
Support Equipment																																														
Related RDT&E,N: Not Applicable																																														

R-1 SHOPPING LIST - Item No.

183

UNCLASSIFIED

Exhibit R-2a, RDTEN Project Justification  
(Exhibit R-2a, page 5 of 14)

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE: <b>June 2001</b>																				
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>	PROGRAM ELEMENT NUMBER AND NAME 0204229N TOMAHAWK AND THEATER MISSION PLANNING CENTER	PROJECT NUMBER AND NAME A0545 TOMAHAWK																				
<p>(U) D. ACQUISITION STRATEGY: In 1998, the Tomahawk Baseline Improvement Program (TBIP) transitioned to the Tactical Tomahawk program. This program is outlined in the Class Justification and Approval (CJ&amp;A No AIR-22448) signed by the Under Secretary of the Navy on 29 May 1998. The acquisition strategy, in brief, is to transition the on-going Tomahawk Baseline Improvement Program (TBIP) to Tactical Tomahawk. The Tactical Tomahawk development program is a cost sharing contract between the Government and the Contractor to add capability to the missile. As part of the development, the contractor provided an unsolicited proposal with a fixed unit price of \$569 thousand (FY99) dollars. This price is predicated on the government pursuing and obtaining a multi-year procurement.</p> <p>(U) E. SCHEDULE PROFILE:</p> <table border="0"> <thead> <tr> <th></th> <th><u>FY 2000</u></th> <th><u>FY 2001</u></th> <th><u>FY 2002</u></th> </tr> </thead> <tbody> <tr> <td>(U) Program Milestones</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Engineering Milestones</td> <td>3Q/00 CDR Complete</td> <td></td> <td></td> </tr> <tr> <td>(U) T&amp;E Milestones</td> <td></td> <td>4Q/01 AUR System Integration Complete</td> <td>4Q/02 AUR System Qual Complete</td> </tr> <tr> <td>(U) Contract Milestones</td> <td></td> <td></td> <td>3Q/02-LRIP One Award</td> </tr> </tbody> </table> <p>Definitions:  AUR - All-Up-Round  CDR - Critical Design Review  IOC - Initial Operational Capability  LRIP - Low Rate Initial Production  OA - Operational Assessment  PDR - Preliminary Design Review</p>				<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	(U) Program Milestones				(U) Engineering Milestones	3Q/00 CDR Complete			(U) T&E Milestones		4Q/01 AUR System Integration Complete	4Q/02 AUR System Qual Complete	(U) Contract Milestones			3Q/02-LRIP One Award
	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>																			
(U) Program Milestones																						
(U) Engineering Milestones	3Q/00 CDR Complete																					
(U) T&E Milestones		4Q/01 AUR System Integration Complete	4Q/02 AUR System Qual Complete																			
(U) Contract Milestones			3Q/02-LRIP One Award																			

R-1 SHOPPING LIST - Item No. 183

UNCLASSIFIED

Exhibit R-2a, RDTE Project Justification  
(Exhibit R-2a, page 6 of 14)

**UNCLASSIFIED**

**CLASSIFICATION:**

[illegible]

## UNCLASSIFIED

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)							DATE:						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME							
RDT&E, N / BA-7			0204229N/TOMAHAWK AND THEATER MISSION PLANNING CENTER			A0545 TOMAHAWK							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date			Cost to Complete	Total Cost	Target Value of Contract	
Development Support	Economy Act	NSWC, Dahlgren VA	7.256	2.126	11/00	1.261	11/01						
	Economy Act	NAWC-WD, China Lake, CA	7.074	1.352	11/00	0.746	11/01						
	Economy Act	NSWC, Pt Hueneme, CA	3.043	0.152	11/00	0.202	11/01						
	Economy Act	NAWC-AD, Pax River, MD	2.425	1.088	11/00	0.338	11/01						
	Economy Act	NWAD, Corona	0.652	0.390	11/00	0.286	11/01						
	Economy Act	NUWC, Newport, RI	1.842	1.617	11/00	0.501	11/01						
	SS/CPFF	SAIC, Arlington, VA	3.165	2.199	12/00	1.738	12/01						
	Economy Act	NSWC, Indian Head, MD	1.944	2.152	11/00	0.675	11/01						
	Economy Act	NSWC, Carderock, MD	0.000	0.668	01/01	0.907	11/01						
		Various	14.635	0.351		0.310							

R-1 SHOPPING LIST - Item No.

183

UNCLASSIFIED



UNCLASSIFIED

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)										DATE: June 2001			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME						
RDT&E, N / BA-7			0204229N/TOMAHAWK AND THEATER MISSION PLANNING CENTER				A0545 TOMAHAWK						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date				Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	SS/CPFF	Raytheon, Tucson, AZ	19.574	0.000	11/00	6.608	11/01						
	Economy Act	COMOPTEVFOR, VA	1.603	0.230	11/00	0.400	11/01						
	Economy Act	NAWC, Pt Mugu Test Ctr, CA	6.711	1.847	11/00	4.240	11/01						
	Economy Act	NOSC, San Diego CA	0.000	0.700	04/01	0.700	11/01						
	Economy Act	NUWC, Newport RI	0.000	0.235	11/00	0.239	11/01						
	UARC	APL, Laurel MD	0.000	0.200	11/00	0.450	11/01						
	Economy Act	NAC, China Lake FltTestCtr, CA	3.247										
		Various	0.000	0.616		0.075							
Subtotal T&E			31.135	3.828		12.712							
Remarks: None													
Management		SBIR		1.802									
Subtotal Management				1.802									
Remarks: None													
Total Cost			2,536.887	88.610		76.014							
Remarks:													

# UNCLASSIFIED

## CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification								DATE: <b>June 2001</b>			
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>	PROGRAM ELEMENT NUMBER AND NAME 0204229N TOMAHAWK AND THEATER MISSION PLANNING CENTER					PROJECT NUMBER AND NAME A1784 THEATER MISSION PLANNING CENTER					
COST (\$ in Millions)	Prior Years Cost	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost	92.830	1.805	1.851	0.022							
RDT&E Articles Qty											

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

(U) The TOMAHAWK Theater Mission Planning Center (TMPC) ashore and Afloat Planning System (APS) provide data base generation and processing, flight mission data, command and control information preparation, and distribution for nuclear (TMPC only) and conventional TOMAHAWK Land Attack Missiles. The TMPC project designs and develops software to decrease mission planning time in response to contingency requirements, improves the production of missile data for distribution and provides automated command and control information for employment and strike planning. APS utilizes the TMPC software on down sized and ruggedized computer hardware for use in support of Afloat Strike Warfare Commanders. This improves battle-group tactical flexibility and responsiveness while maximizing TOMAHAWK Weapon Systems (TWS) warfare capability. The TMPC and APS systems will be compatible with the Navy Command and Control Systems and the TOMAHAWK Weapon System. Tomahawk Strike Planning Tools are comprised of two elements, the Mission Distribution System (MDS) and the Electronic TOMAHAWK Employment Planning Package (ETEPP). The Mission Distribution System (MDS) allows TOMAHAWK users the capability to transmit and receive mission data updates in a tactical environment. The ETEPP provides the TOMAHAWK user with command and control information needed to employ TOMAHAWK missions.

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. FY 2000 ACCOMPLISHMENTS:

(U) (\$1.805) Continued TMPC integration of New National Sensors and Software Architectural Enhancements.

2. FY 2001 PLANS:

(U) (\$1.790) Develop system updates to TOMAHAWK Command and Controls systems necessary for the employment of the Tactical TOMAHAWK missile.

(U) (\$0.061) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 68.

3. FY 2002 PLANS:

(U) (\$0.022) Continue to develop system updates to TOMAHAWK Command and Controls systems necessary for the employment of the Tactical TOMAHAWK missile.

R-1 SHOPPING LIST - Item No. 183

UNCLASSIFIED

Exhibit R-2a, RDTEN Project Justification  
(Exhibit R-2a, page 10 of 14)

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification		DATE:	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
<b>RDT&amp;E, N / BA-7</b>	0204229N TOMAHAWK AND THEATER MISSION PLANNING CENTER	A1784 THEATER MISSION PLANNING CENTER	
(U) B. PROGRAM CHANGE SUMMARY:			
	<u>FY2000</u>	<u>FY2001</u>	<u>FY2002</u>
(U) FY 2001 President's Budget:	1.895	1.871	0.022
(U) Adjustments from the President's Budget:	(0.090)	(0.020)	0.000
(U) FY 2002/2003 OSD Budget Submit:	1.805	1.851	0.022
CHANGE SUMMARY EXPLANATION:			
(U) Funding:			
The FY 2000 net decrease of \$0.090 million reflects a decrease of \$0.046 million for Small Business Innovative Research (SBIR) assessment, a decrease of \$0.007 million for a Congressional Recission, and a decrease of \$0.037 million for reprioritization of requirements within the Navy.			
The FY 2001 net decrease of \$0.020 million reflects a decrease of \$0.003 million for reprioritization of requirements within the Navy, a reduction of \$0.013 million Congressional reduction, and a reduction of \$0.004 million for a Congressional Recission.			
(U) Schedule: Not Applicable			
(U) C. OTHER PROGRAM FUNDING SUMMARY:			
<u>Line Item No. &amp; Name</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>
OPN BLI 525000 Surface Tomahawk Support Equipment	36.184	25.508	24.433
Related RDT&E,N: Not Applicable			

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification			DATE: <b>June 2001</b>																				
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>	PROGRAM ELEMENT NUMBER AND NAME 0204229N TOMAHAWK AND THEATER MISSION PLANNING CENTER	PROJECT NUMBER AND NAME A1784 THEATER MISSION PLANNING CENTER																					
<p>(U) D. ACQUISITION STRATEGY: The acquisition strategy for this project is to maintain contractual continuity to develop system updates to continue TMPC integration of New National Sensors and Software Architectural Enhancements.</p> <p>(U) E. SCHEDULE PROFILE:</p> <table><thead><tr><th></th><th><u>FY 2000</u></th><th><u>FY 2001</u></th><th><u>FY 2002</u></th></tr></thead><tbody><tr><td>(U) Program Milestones</td><td>Annual Fleet Release</td><td>Annual Fleet Release</td><td>Annual Fleet Release</td></tr><tr><td>(U) Engineering Milestones</td><td></td><td></td><td></td></tr><tr><td>(U) T&amp;E Milestones</td><td></td><td></td><td></td></tr><tr><td>(U) Contract Milestones</td><td>TMPC APS</td><td>TMPC APS</td><td>TMPC APS</td></tr></tbody></table>					<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	(U) Program Milestones	Annual Fleet Release	Annual Fleet Release	Annual Fleet Release	(U) Engineering Milestones				(U) T&E Milestones				(U) Contract Milestones	TMPC APS	TMPC APS	TMPC APS
	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>																				
(U) Program Milestones	Annual Fleet Release	Annual Fleet Release	Annual Fleet Release																				
(U) Engineering Milestones																							
(U) T&E Milestones																							
(U) Contract Milestones	TMPC APS	TMPC APS	TMPC APS																				

R-1 SHOPPING LIST - Item No. 183

UNCLASSIFIED

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)								DATE: June 2001				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-7			0204229N TOMAHAWK AND THEATER MISSION PLANNING CENTER			A1784 THEATER MISSION PLANNING CENTER						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date			Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	C/FP	Boeing, St. Louis, MO	36.795									
	SS/CPFF	GD/E, San Diego, CA	11.342									
	Econ Act	NCCOSC, San Diego, CA	4.325									
		Misc. Items 1974-1997	34.940									
	C/CPFF	Lockheed, Bethesda, MD	1.283	1.300	11/00	0.022	11/01					
	C/CPFF	MTL, Classified	1.060									
	Econ Act	NSWC, Dahlgren	1.253									
Subtotal Product Development			90.998	1.300		0.022						
Remarks:												
Development Support Equipment	CPFF	SAIC, Arlington, VA	1.866									
	UARC	APL, Laurel, MD	1.771	0.490	01/01							
Subtotal Support			3.637	0.490		0.000						
Remarks:												

R-1 SHOPPING LIST - Item No. 183

UNCLASSIFIED

UNCLASSIFIED

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)							DATE: June 2001					
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-7			0204229N TOMAHAWK AND THEATER MISSION PLANNING CENTER			A1784 THEATER MISSION PLANNING CENTER						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date			Cost to Complete	Total Cost	Target Value of Contract
Subtotal T&E			0.000	0.000		0.000						
Remarks:												
Management		SBIR		0.061								
Subtotal Management				0.061								
Remarks:												
Total Cost			94.635	1.851		0.022						
Remarks:												

R-1 SHOPPING LIST - Item No. 183

UNCLASSIFIED