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CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification								DATE: February 2002			
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-7						R-1 ITEM NOMENCLATURE 0204229N Tomahawk and Theater Mission Planning Center					
COST (\$ in Millions)	Prior Years Cost		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Total PE Cost			92.456	75.347	94.265	60.594	34.156	13.665	13.945	Continuing	Continuing
A0545 Tomahawk			90.706	75.347	94.265	60.594	34.156	13.665	13.945	Continuing	Continuing
A1784 Theatre Mission Planning Center	94.635		1.750								96.385
Quantity of RDT&E Articles	EDM 10										10
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>(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.</p> <p>(U) The Tomahawk project includes all missile development, mission planning system development, and submarine and surface ship weapons control development.</p> <p>(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.</p> <p>(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.</p>											

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<p>(U) The Tomahawk Weapons Control System provides launch capability for surface and submarine platforms. 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 1A 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>		

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

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2002				
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 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost			90.706	75.347	94.265	60.594	34.156	13.665	13.945	Continuing	Continuing
RDT&E Articles Qty	EDM 10										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. The Tomahawk Land-Attack Missile (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 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. The Tomahawk program (A0545) also includes development of Torpedo Tube Launch (TTL) capability for submarines and the development of a penetrator variant of Tactical Tomahawk (TTPV).

(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.

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2002
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7	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 2001 ACCOMPLISHMENTS:</p> <p>(U) (\$47.177) Conducted Development, Integration and Qualification Testing of Tactical Tomahawk missile.</p> <p>(U) (\$20.417) Incorporated new capabilities in Tomahawk Command and Control systems necessary for the employment of the Tactical Tomahawk missile.</p> <p>(U) (\$23.112) Completed software development and began Government Testing of Weapons Control System. Conducted Phase 1A Land Based System Integration Tests of redesigned surface and submarine Weapons Control Systems.</p> <p>2. FY 2002 PLANS:</p> <p>(U) (\$42.232) Conduct Contractor Flight Testing of Tactical Tomahawk missile. Complete missile Development, Integration and Qualification testing. Initiate Government flight test.</p> <p>(U) (\$17.143) 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) (\$14.712) Complete Phase IA land based tests of weapons control system. Initiate TECHEVAL/OPEVAL for Phase 1A. Conduct Phase 1B Land Based and Sea Based System Integration Testing.</p> <p>(U) (\$ 2.260) Portion of extramural program reserved for Small Business Innovation Research Assessment in accordance with 15 USC 638.</p> <p>3. FY2003 PLANS:</p> <p>(U) (\$64.682) Continue Government flight testing of Tactical Tomahawk missile. Complete TECHEVAL, initiate OPEVAL. Initiate Tactical Tomahawk Penetrator Variant (TTPV) Engineering & Manufacturing Development, and hardware/software development and integration for Tactical Tomahawk Torpedo Tube Launch (TTL) modifications.</p> <p>(U) (\$22.102) 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) (\$7.481) Complete OPEVAL for Phase 1A of Weapons Control System. Continue Phase 1B Land Based and Sea Based System Testing. Initiate TECHEVAL/OPEVAL for Phase 1B.</p>		

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Exhibit R-2, RDTEN Budget Item Justification
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EXHIBIT R-2a, RDT&E Project Justification		DATE:							
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7		February 2002							
PROGRAM ELEMENT NUMBER AND NAME 0204229N TOMAHAWK AND THEATER MISSION PLANNING CENTER	PROJECT NUMBER AND NAME A0545 TOMAHAWK								
(U) B. PROGRAM CHANGE SUMMARY:									
	<u>FY2001</u>	<u>FY2002</u>	<u>FY2003</u>						
(U) FY 2002 President's Budget:	88.610	76.014							
(U) Adjustments from the FY 2002 President's Budget:	2.096	(0.667)							
(U) FY 2003 President's Budget:	90.706	75.347	94.265						
CHANGE SUMMARY EXPLANATION:									
(U) Funding:									
The FY 2001 net increase \$2.096 million consists of an increase of 4.135 million for Precision Terrain Aided Navigation offset by a decrease of \$1.802 million for a Small Business Innovation Research Assessment, a decrease of \$0.220 for reprioritization of requirements within the Navy, and a decrease of \$0.17 million for a Federal Technology Transfer.									
The FY 2002 net decrease of \$0.667 million consists of an undistributed Congressional reduction.									
Schedule: Not Applicable									
Technical: Not Applicable									
(U) C. OTHER PROGRAM FUNDING SUMMARY:									
<u>Line Item No. & Name</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>To Complete</u>	<u>Total Cost</u>
WPN BLI 210100 Tomahawk	0.000	73.975	145.820	299.190	296.430	400.450	440.692	0.000	1656.557
OPN BLI 525000 Surface Tomahawk Support Equipment	43.070	60.384	53.614	41.333	42.890	46.733	31.411	484.470	803.905
OPN BLI 525500 Submarine Tomahawk Support Equipment	2.823	3.019	5.262	8.795	28.798	28.709	28.549	115.984	221.939
Related RDT&E,N: Not Applicable									

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7	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&A No AIR-22448) signed by the Under Secretary of the Navy on 29 May 1998. The acquisition strategy was to transition the 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 style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%; text-align: center;"><u>FY 2001</u></th> <th style="width: 10%; text-align: center;"><u>FY 2002</u></th> <th style="width: 10%; text-align: center;"><u>FY 2003</u></th> <th style="width: 10%; text-align: center;"><u>TO COMPLETE</u></th> </tr> </thead> <tbody> <tr> <td>(U) Program Milestones</td> <td></td> <td></td> <td>1Q/03-OA Complete</td> <td>2Q/04-IOC 3Q/04-MS III 4Q/05 TTPV IOC 1Q/06 TT-TTL IOC</td> </tr> <tr> <td>(U) Engineering Milestones</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) T&E Milestones</td> <td>4Q/01 AUR System Integration Complete</td> <td>4Q/02 AUR System Qual Complete</td> <td>4Q/03-TECHEVAL Complete</td> <td>2Q/04-OPEVAL Complete</td> </tr> <tr> <td>(U) Contract Milestones</td> <td></td> <td>3Q/02-LRIP One Award</td> <td>2Q/03-LRIP Two Award</td> <td></td> </tr> </tbody> </table> <p>Definitions: AUR - All-Up-Round CDR - Critical Design Review EMD - Engineering & Manufacturing Development IOC - Initial Operational Capability LRIP - Low Rate Initial Production OA - Operational Assessment PDR - Preliminary Design Review TT - Tactical Tomahawk TTL - Torpedo Tube Launch TTPV - Tactical Tomahawk Penetrator Variant</p>						<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>TO COMPLETE</u>	(U) Program Milestones			1Q/03-OA Complete	2Q/04-IOC 3Q/04-MS III 4Q/05 TTPV IOC 1Q/06 TT-TTL IOC	(U) Engineering Milestones					(U) T&E Milestones	4Q/01 AUR System Integration Complete	4Q/02 AUR System Qual Complete	4Q/03-TECHEVAL Complete	2Q/04-OPEVAL Complete	(U) Contract Milestones		3Q/02-LRIP One Award	2Q/03-LRIP Two Award	
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>TO COMPLETE</u>																									
(U) Program Milestones			1Q/03-OA Complete	2Q/04-IOC 3Q/04-MS III 4Q/05 TTPV IOC 1Q/06 TT-TTL IOC																									
(U) Engineering Milestones																													
(U) T&E Milestones	4Q/01 AUR System Integration Complete	4Q/02 AUR System Qual Complete	4Q/03-TECHEVAL Complete	2Q/04-OPEVAL Complete																									
(U) Contract Milestones		3Q/02-LRIP One Award	2Q/03-LRIP Two Award																										

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Exhibit R-3 Cost Analysis (page 1)										DATE: February 2002		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND N/A						
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	FY 03 Cost	FY 03 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	0.749	11/02	Continuing	Continuing	
	Economy Act	NAWC-WD, China Lake, CA	7.074	1.352	11/00	0.746	11/01	1.274	11/02	Continuing	Continuing	
	Economy Act	NSWC, Pt Hueneme, CA	3.043	0.152	11/00	0.202	11/01	0.139	11/02	Continuing	Continuing	
	Economy Act	NAWC-AD, Pax River, MD	2.425	1.310	11/00	0.338	11/01	0.522	11/02	Continuing	Continuing	
	Economy Act	NWAD, Corona	0.652	0.390	11/00	0.286	11/01	0.193	11/02	Continuing	Continuing	
	Economy Act	NUWC, Newport, RI	1.842	1.617	11/00	0.501	11/01	0.274	11/02	Continuing	Continuing	
	SS/CPFF	SAIC, Arlington, VA	3.165	2.199	12/00	1.279	12/01	1.839	12/02	Continuing	Continuing	
	Economy Act	NSWC, Indian Head, MD	1.944	2.152	11/00	0.675	11/01	0.371	11/02	Continuing	Continuing	
	Economy Act	NSWC, Carderock, MD		0.668	01/01	0.907	11/01	0.165	11/02	Continuing	Continuing	
	C/CPFF	Honeywell, Minneapolis, MN		1.538	04/01							1.538
		Various	14.635	0.859		0.310		0.402		Continuing	Continuing	
Other Development												
Mission Planning Systems (TC2S)	SS/CPFF	Raytheon, Arlington, VA	5.100									5.100
	SS/CPFF	Boeing, St. Louis, MO		0.650	12/00			1.100	12/02			1.750
	SS/CPFF	ComGlobal, San Jose, CA		9.401	12/00	7.505	12/01	12.080	12/02	2.136	31.122	31.122
	SS/CPFF	SAIC, Arlington, VA		5.465	12/00	3.049	12/01	4.204	12/02	3.609	16.327	16.327
	SS/CPFF	URAC APL, Laurel, MD		4.246	12/00	4.300	12/01	5.062	12/02	5.106	18.714	18.714
	SS/CPFF	BAE Systems, San Diego, CA		0.329	12/00	0.600	12/01	0.640	12/02	1.699	3.268	3.268
	SS/CPFF	Lockheed, Valley Forge, PA		0.326	12/00	1.689	12/01	1.929	12/02	5.210	9.154	9.154
Weapons Control Systems	C/CPAF	Lockheed, Valley Forge, PA	58.695	20.768	12/00	8.884	12/01	7.556	12/02	0.554	96.457	96.457
	Economy Act	NSWC, Dahlgren VA	15.393	0.910	11/00	3.324	11/01	1.411	12/02	Continuing	Continuing	
	Economy Act	NUWC, Newport, RI	9.364	1.434	11/00	1.700	11/01	1.109	12/02	Continuing	Continuing	
	SS/CPFF	URAC APL, Laurel, MD				0.804	12/01	0.605	12/02	0.369	1.778	1.778
Subtotal Support			130.588	57.892		38.360		41.624		Continuing	Continuing	
Remarks: None												

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Exhibit R-2, RD TEN Budget Item Justification
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Exhibit R-3 Cost Analysis (page 2)										DATE: February 2002		
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	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	SS/CPFF	Raytheon, Tucson, AZ	19.574			5.880	11/01	9.618	11/02	3.834	38.906	38.906
	Economy Act	COMOPTEVFOR, VA	1.603	0.230	11/00	0.400	11/01	0.670	12/02	Continuing	Continuing	
	Economy Act	NAWC, Pt Mugu Test Ctr, CA	6.711	1.847	11/00	3.422	11/01	9.743	11/02	Continuing	Continuing	
	Economy Act	NOSC, San Diego CA		0.700	04/01	0.575	11/01	1.506	11/02	Continuing	Continuing	
	Economy Act	NUWC, Newport RI		0.235	11/00	0.205	11/01	1.400	11/02	Continuing	Continuing	
	SS/CPFF	URAC APL, Laurel MD		0.200	11/00	0.645	11/01	1.170	12/02		2.015	2.015
	Economy Act	NSWC, Dahlgren VA		0.330	11/00	0.447		1.400	11/02	Continuing	Continuing	
		Various	3.247	0.236	11/00	0.050	11/01	0.210	01/03	Continuing	Continuing	
Subtotal T&E			31.135	3.778		11.624		25.717				
Remarks: None												
Management												
SBIR Assessment						2.260					2.260	
Subtotal Management						2.260					2.260	
Remarks: None												
Total Cost			2,536.887	90.706		75.347		94.265		Continuing	Continuing	
Remarks:												

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RDT&E, N / BA-7		0204229N TOMAHAWK AND THEATER MISSION PLANNING CENTER				A1784 THEATER MISSION PLANNING CENTER					
COST (\$ in Millions)	Prior Years Cost	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program	
Project Cost	94.635	1.750								96.385	
RDT&E Articles Qty											
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>(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.</p> <p>(U) PROGRAM ACCOMPLISHMENTS AND PLANS:</p> <p>1. FY 2001 ACCOMPLISHMENTS:</p> <p>(U) (\$1.750) Developed system updates to TOMAHAWK Command and Controls systems necessary for the employment of the Tactical TOMAHAWK missile.</p>											

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R-1 SHOPPING LIST - Item No. 181

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7	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 style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;"></th> <th style="width: 20%; text-align: center;"><u>FY 2001</u></th> <th style="width: 20%; text-align: center;"><u>FY 2002</u></th> <th style="width: 20%; text-align: center;"><u>FY 2003</u></th> <th style="width: 20%; text-align: center;"><u>TO COMPLETE</u></th> </tr> </thead> <tbody> <tr> <td>(U) Program Milestones</td> <td colspan="4" style="text-align: center;">Annual Fleet Release</td> </tr> <tr> <td>(U) Engineering Milestones</td> <td colspan="4"></td> </tr> <tr> <td>(U) T&E Milestones</td> <td colspan="4"></td> </tr> <tr> <td>(U) Contract Milestones</td> <td colspan="4" style="text-align: center;">TMPC APS</td> </tr> </tbody> </table>				<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>TO COMPLETE</u>	(U) Program Milestones	Annual Fleet Release				(U) Engineering Milestones					(U) T&E Milestones					(U) Contract Milestones	TMPC APS			
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Exhibit R-3 Cost Analysis (page 1)										DATE: February 2002		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7				PROGRAM ELEMENT 0204229N TOMAHAWK AND THEATER MISSION PLANNING CENTER			PROJECT NUMBER AND NAME 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	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	C/FP	Boeing, St. Louis, MO	36.795								36.795	36.795
	SS/CPFF	GD/E, San Diego, CA	11.342								11.342	11.342
	Econ Act	NCCOSC, San Diego, CA	4.325								4.325	
		Misc. Items 1974-1997	34.940								34.940	
	C/CPFF	Lockheed, Bethesda, MD	1.283	1.300	11/00						2.583	2.583
	C/CPFF	MTL, Classified	1.060								1.060	1.060
	Econ Act	NSWC, Dahlgren	1.253								1.253	
Subtotal Product Development			90.998	1.300							92.298	
Remarks:												
Development Support Equipment	CPFF	SAIC, Arlington, VA	1.866								1.866	1.866
	UARC	APL, Laurel, MD	1.771	0.450	01/01						2.221	
Subtotal Support			3.637	0.450							4.087	
Remarks:												

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Exhibit R-3 Cost Analysis (page 2)										DATE: February 2002		
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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	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Subtotal T&E												
Remarks:												
Management												
SBIR Assessment												
Subtotal Management												
Remarks:												
Total Cost			94.635	1.750							96.385	
Remarks:												

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