

UNCLASSIFIED

EXHIBIT R-2, FY 2000 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET

DATE: February 1999

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0204229N

PROGRAM ELEMENT TITLE: TOMAHAWK AND THEATER MISSION PLANNING CENTER

COST: (Dollars in Thousands)

<u>Project Number & Title</u>	<u>FY 1998 Budget</u>	<u>FY 1999 Budget</u>	<u>FY 2000 Estimate</u>	<u>FY 2001 Estimate</u>	<u>FY 2002 Estimate</u>	<u>FY 2003 Estimate</u>	<u>FY 2004 Estimate</u>	<u>FY 2005 Estimate</u>	<u>To Complete</u>	<u>Total Program</u>
A0545	\$98,776	\$163,123*	\$145,317	\$107,895	\$51,598	\$33,243	\$10,833	\$11,164	Continuing	Continuing
Tomahawk										
A1784	\$2,903	\$2,562	\$1,906	\$1,891	\$22	\$28	\$28	\$28	0	\$96,816
Theater Mission Planning Center										
TOTAL	\$101,679	\$165,685	\$147,223	\$109,786	\$51,620	\$33,271	\$10,861	\$11,192	Continuing	Continuing

Quantity of RDT&E Articles

6
EDM 6
EDM

*FY99 budget reflects Congressional Realignment of \$98.573M for the Tactical Tomahawk Program (A2658) and \$1M Congressional Add for Alternate Turbine Engine (A2659).

(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 Tomahawk TLAM Block III system upgrade (IOC March 93) incorporated the Global Positioning System (GPS) capability; provided a smaller, lighter warhead with variable fuze, extended range, Time of Arrival, and improved accuracy for low contrast matching of Digital Scene Matching Area Correlator. The Tactical Tomahawk (TT) Weapons program, beginning in FY 1998, will provide the tactical commander a quick reaction response capability as well as improved flexibility, accuracy, and lethality.

(U)The Theater Mission Planning Center (TMPC) project provides for the TMPC and the 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. The TMPC/APS software development decreases mission planning time and increases the quality and accuracy of each mission. TMPC provides mission planning at the theater level and is designed for high rate production responsive to national/strategic requirements. APS provides mission planning at the Battle Group level that is responsive to the needs of the tactical situation. Tomahawk Strike Planning Tools are comprised of two elements. The Mission Distribution System (MDS) is a subset of TMPC, and APS also deployed as the stand-alone TLAM employment system, that support the effective employment of TLAM by the Force Level Tomahawk Strike Coordinator (TSC). The Electronic Tomahawk Employment Planning Package (ETEPP) provides the Tomahawk user with command and control information needed to employ Tomahawk missions.

(U) These efforts provide battle-group tactical flexibility and responsiveness while maximizing TWS wartime capability.

(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.

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EXHIBIT R-2a, FY 2000 RDT&E,N BUDGET PROJECT JUSTIFICATION SHEET

DATE: February 1999

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0204229N

PROJECT NUMBER: A0545

**PROGRAM ELEMENT TITLE: TOMAHAWK AND THEATER MISSION
PLANNING CENTER**

PROJECT TITLE: TOMAHAWK

COST: (Dollars in Thousands)

<u>Project Number & Title</u>	<u>FY 1998 Budget</u>	<u>FY 1999 Budget</u>	<u>FY 2000 Estimate</u>	<u>FY 2001 Estimate</u>	<u>FY 2002 Estimate</u>	<u>FY 2003 Estimate</u>	<u>FY 2004 Estimate</u>	<u>FY 2005 Estimate</u>	<u>To Complete</u>	<u>Total Program</u>
A0545 Tomahawk	\$98,776	\$163,123*	\$145,317	\$107,895	\$51,598	\$33,243	\$10,833	\$11,164	Continuing	Continuing
TOTAL	\$98,776	\$163,123*	\$145,317	\$107,895	\$51,598	\$33,243	\$10,833	\$11,164	Continuing	Continuing

Quantity of RDT&E Articles

6 6
EDM EDM

*FY99 budget reflects Congressional Realignment of \$98.573M for the Tactical Tomahawk Program (A2658) and \$1M Congressional Add for Alternate Turbine Engine (A2659).

(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), beginning with FY 1998, 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 last fielded upgrade to the Tomahawk system was designated Block III. This effort added a GPS capability, a smaller, lighter warhead, a time of arrival calculation, added range, and an updated Digital Scene Matching Area Correlator for low contrast matching. The missile development covered by this budget, Tactical Tomahawk 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 Assessment/Battle Damage Indication (BDA/BDI) messages. TT also includes the development of a high anti-jam GPS receiver and antenna system for the missile.

(U) The weapons control development portion of the project is centered on the Advanced Tomahawk Weapons Control System (ATWCS), being introduced into the surface and submarine fleets. The ATWCS advancements are increase data throughput thereby reducing the time needed to execute missile preparation and launch sequences, and improving strike coordination capabilities.

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PROJECT NUMBER: A0545

**PROGRAM ELEMENT TITLE: TOMAHAWK AND THEATER MISSION
PLANNING CENTER**

PROJECT TITLE: TOMAHAWK

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. FY 1998 ACCOMPLISHMENTS:

[\$4,129] Continued development of Sub-ATWCS for Combat Control System MK2 Program Block 1C.

Delivered engagement planning Interface Definition Language prototype and engineering build software of Sub-ATWCS for Block 1C.

[\$94,647] April, 1998, permission from Navy, OSD, and Congress received to transition from Tomahawk Baseline Improvement Program (TBIP) to Tactical Tomahawk Program. Continued all C2 development through Critical Design Review (CDR) and began coding software.

2. FY 1999 PLAN:

[\$4,200] Develop and deliver software for SSN 688 MK2 Block 1C Mod 0/1 and Mod 2.

[\$155,531] Continue TT Engineering and Manufacturing Development including mission planning and weapons control development.

[\$3,392] Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.

3. FY 2000 PLAN:

[107,214] Continue development of Tactical Tomahawk missile leading to System CDR

Continue missile prototype fabrication and ground testing to begin Development Testing (DT-1, 2) in 2001.

[\$38,103] Continue development of common launch and track control systems for surface ship and submarine platforms for the new Tactical Tomahawk baseline. Critical Design Review leading to Development Testing of entire system in 2001.

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PROJECT NUMBER: A0545

**PROGRAM ELEMENT TITLE: TOMAHAWK AND THEATER MISSION
PLANNING CENTER**

PROJECT TITLE: TOMAHAWK

(U) B. PROGRAM CHANGE SUMMARY

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>
(U) FY 1999 President's Budget:	\$85,768	\$64,159	\$36,514
(U) Appropriated Value:	\$88,417	\$163,732	
(U) Adjustments from President's Budget:	\$13,008	\$98,964	\$108,803
(U) FY2000 President's Budget Submit:	\$98,776	\$163,123	\$145,317

CHANGE SUMMARY EXPLANATION:

(U) Funding: FY98 net increase of +\$13,008 thousand consists of an increase of +\$19,600 thousand for Above Threshold Reprogramming for Tactical Tomahawk; and decreases of -\$1,857 thousand for Small Business Innovative Research reduction, -\$4,424 thousand for the Navy's reprioritization of requirements and -\$311 thousand for canceled account adjustments. FY99 net increase of +\$98,964 thousand consists of increases of +\$98,573 thousand for Tactical Tomahawk Congressional Realignment, +\$1,000 thousand for Alternate Turbine Engine Congressional Add; and decreases of -\$ 377 for inflation adjustments, -\$133 thousand for undistributed Congressional reductions, and -\$99 thousand for minor programmatic adjustments. FY00 net increase of +\$109,090 thousand consists of +\$110,895 thousand from prior Congressional realignment action for Tactical Tomahawk and +\$13 thousand for miscellaneous rate adjustments; and decreases of -\$2,105 thousand for inflation adjustments.

(U) Schedule: Not applicable.

(U) Technical: Not applicable.

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PROJECT TITLE: TOMAHAWK

(U) C. OTHER PROGRAM FUNDING SUMMARY (Dollars in Thousands)

	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To	Total
<u>Appn</u>	<u>Budget</u>	<u>Budget</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	<u>Program</u>
WPN	\$26,305	\$33,001	\$50,894	\$59,556	\$92,153	\$141,480	\$195,177	\$294,510	Continuing	Continuing
OPN	\$63,093	\$101,548	\$87,857	\$74,701	\$72,360	\$63,367	\$65,339	\$67,100	Continuing	Continuing

Related RDT&E

Not applicable.

(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, in brief, is to transition the on-going Tomahawk Baseline Improvement Program (TBIP) to Tactical Tomahawk (TT). The Tactical Tomahawk development program will be a cost sharing arrangement between the Government and the Contractor to add capability to the missile. The resulting production contract incentivizes a significant reduction in price for the manufactured items. In order to be cost effective the price of the manufactured items must be significantly lower than the cost of remanufacturing a Block II or Block III missiles.

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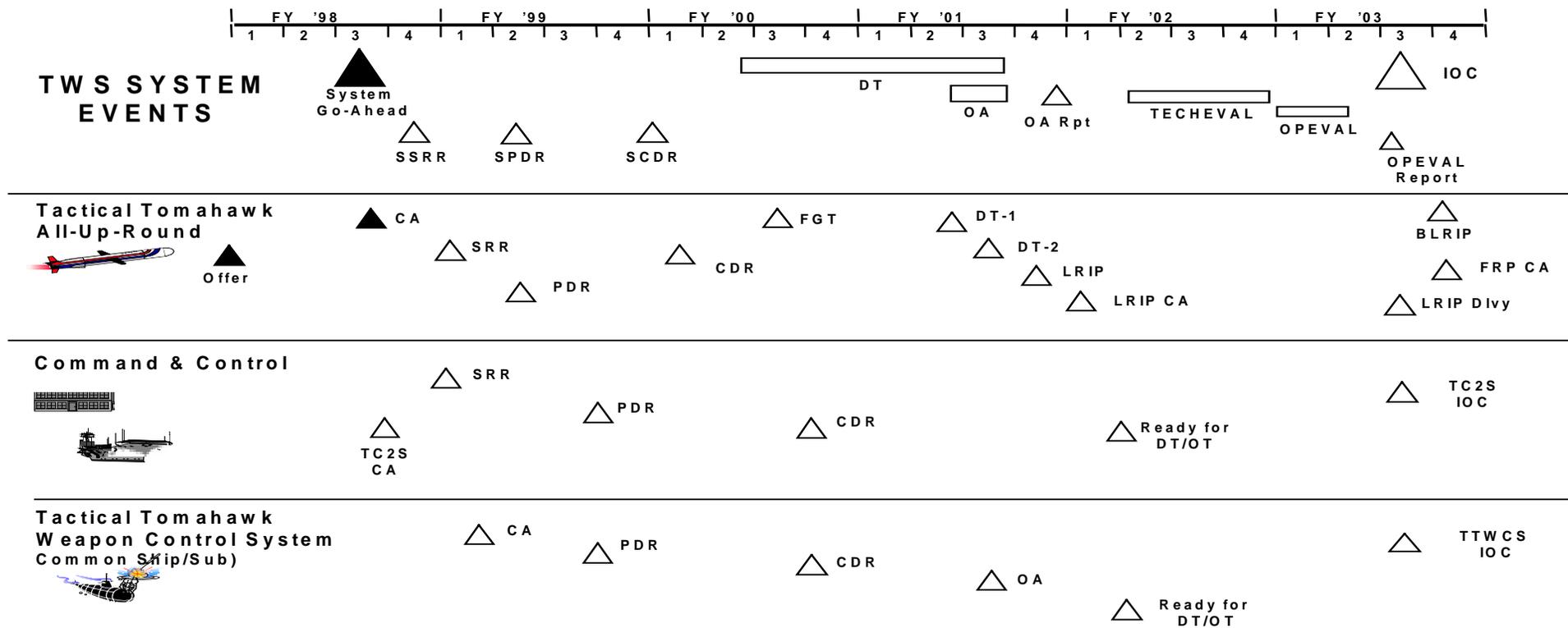
BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0204229N
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PROJECT NUMBER: A0545
 PROJECT TITLE: TOMAHAWK

E. Schedule Profile

TACTICAL TOMAHAWK PROGRAM MASTER SCHEDULE



6/16/98

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PLANNING CENTER**

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Definitions

SSRR - System Software Requirements Review

SPDR - System Preliminary Design Review

SCDR- System Critical Design Review

DT- Development Test

OT - Operational Test

IOC - Initial Operational Capability

CA - Contract Award

FRP CA - Full Rate Production Contract Award

LRIP - Low Rate Initial Production

SRR - Software Requirements Review

PDR - Preliminary Design Review

CDR- Critical Design Review

OA - Operational Assessment

CCS ECP - Submarine Combat and Control System Engineering Change Proposal

LBSIT - Land-Based System Integration Test

SBSIT - Ship-based System Integration Test

SDCT - System Design Connectivity Test

TRR - Test Readiness Review

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EXHIBIT R-3, FY 2000 RDT&E,N COST ANALYSIS

DATE: February 1999

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0204229N
PROGRAM ELEMENT TITLE: TOMAHAWK AND THEATER MISSION
PLANNING CENTER

PROJECT NUMBER: A0545
PROJECT TITLE: TOMAHAWK

<u>Cost Categories:</u>	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior Yrs Cost</u>	<u>FY 1999</u>		<u>FY 2000</u>		<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
				<u>FY 1999 Cost</u>	<u>Award Date</u>	<u>FY 2000 Cost</u>	<u>Award Date</u>			
Primary Hardware Development All Product Development Costs, 1974- through TBIP Costs in FY 98 Primary Hardware Development, Tactical Tomahawk Program			\$2,176,447							
	AUR	CPFF Raytheon,Tucson,AZ	\$31,510	\$68,340	11/98	\$53,400	11/99	\$19,220	\$172,470	
Launcher Integration	TBD	Lockheed,Bethesda,MD	\$0	\$15,000	11/98	\$15,000	11/99			
Systems Engineering	FP	Raytheon, Tucson, AZ	\$2,000	\$2,000	10/98	\$2,000	10/99	Continuing	Continuing	
	UARC	APL, Laurel, MD	\$3,700	\$3,500	1/99	\$3,800	1/00	Continuing	Continuing	
	FP	Boeing, St Louis, MO	\$3,000	\$0		\$0		Continuing	Continuing	
Subtotal Project Development			\$2,216,657	\$88,840		\$74,200				

Remarks: None.

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<u>Cost Categories:</u>	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior Yrs Cost</u>	<u>FY 1999 Cost</u>	<u>FY 1999 Award Date</u>	<u>FY 2000 Cost</u>	<u>FY 2000 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
Development Support	Economy Act	NSWC, Dahlgren, VA	\$5,021	\$814	11/98	\$890	11/99	Continuing	Continuing	
	Economy Act	NAWC-WD, China Lk, CA	\$2,999	\$2,000	11/98	\$2,444	11/99	Continuing	Continuing	
	Economy Act	NSWC, Pt Hueneme, CA	\$0	\$200	11/98	\$400	11/99	Continuing	Continuing	
	Economy Act	NAWC-AD, Pax River, MD	\$0	\$400	11/98	\$400	11/99	Continuing	Continuing	
	Economy Act	NWAD, Corona, CA	\$0	\$200	11/98	\$200	11/99	Continuing	Continuing	
	Economy Act	NUWC, Newport, RI	\$0	\$400	11/98	\$600	11/99	Continuing	Continuing	
	SS/CPFF	SAIC, Arlington, VA	\$287	\$1,100	12/98	\$1,100	12/99	Continuing	Continuing	
	Economy Act	NOS, Indian Head, MD	\$0	\$510	11/98	\$600	11/99	Continuing	Continuing	
	Economy Act	NAVSEA (PMS-400), VA	\$200	\$200	11/98	\$0				
	Economy Act	SPAWAR (PMW-171), CA	\$725	\$800	11/98	\$0				
	CPFF	Boeing, St Louis, MO	\$900	\$0		\$0				
	CPFF	LMVF, Valley Forge, PA	\$1,100	\$0		\$0				
	Economy Act	NAVSEA (PMS-425), VA	\$200	\$0		\$0				
	Economy Act	NAVSEA (PMS-410), VA	\$1,300	\$0		\$0				
	CPFF	Raytheon TI, San Jose, CA	\$2,617	\$0		\$0				
	UARC	APL, MD	\$870	\$1,600	1/99	\$1,400	1/00	Continuing	Continuing	
	Economy Act	NSWC, Dahlgren, VA	\$4,443	\$6,700	11/98	\$7,600	11/99	Continuing	Continuing	
	Economy Act	NSWC, Pt Hueneme, CA	\$150	\$1,500	11/98	\$1,500	11/99	Continuing	Continuing	
	Economy Act	NUWC, Newport, RI	\$4,749	\$1,264	11/98	\$813	11/99	Continuing	Continuing	
Software Development										
Mission Planning Systems (TC2S)	SS/CPFF	Raytheon, Arlington, VA	\$5,100	\$0		\$0		Continuing	Continuing	
Weapons Control Systems	Comp	TBD	\$300	\$35,800	10/98	\$26,700	10/99	Continuing	Continuing	
ATWCS	CPFF	LMVF, Valley Forge, PA	\$5,636	\$0		\$0		Continuing	Continuing	
Subtotal Support			\$36,597	\$53,488		\$44,647				

Remarks: Software development includes costs of the entire Tomahawk development program including the missile, weapons control systems, and command and control systems.

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PROGRAM ELEMENT TITLE: TOMAHAWK AND THEATER MISSION
PLANNING CENTER

PROJECT NUMBER: A0545
PROJECT TITLE: TOMAHAWK

Cost Categories:	Contract Method & Type	Performing Activity & Location	Total Prior Yrs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental, Test & Evaluation	SS/CPFF	Raytheon,Tucson,AZ	\$0	\$0		\$12,805	10/99	Continuing	Continuing	
	Economy Act	COMOPTEVFOR, VA	\$400	\$400	11/98	\$400	11/99	Continuing	Continuing	
	Economy Act	NAWC,Pt Mugu Tst Spt (CT),CA	\$660	\$1,645	11/98	\$4,421	11/99	Continuing	Continuing	
	Economy Act	NAWC,China Lk Flt Tst Spt (CT), CA	\$1,320	\$1,258	11/98	\$8,844	11/99	Continuing	Continuing	
Subtotal Test & Evaluation			\$2,380	\$3,303		\$26,470				
Remarks: All testing through FY 2001 are Development Testing leading to an Operational Assessment (OA). See schedule.										
Contractor Engineering Support										
Special TBIP Termination Costs	Negotiated	Raytheon,Tucson,AZ	\$0	\$14,100	2/99	\$0				
Subtotal Management			\$0	\$14,100		\$0				
SBIR Assessment				\$3,392						
Remarks: None.										
Total Cost			\$2,255,634	\$163,123		\$145,317		Continuing	Continuing	

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EXHIBIT R-2a, FY 2000 RDT&E,N BUDGET PROJECT JUSTIFICATION SHEET

DATE: February 1999

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0204229N

PROJECT NUMBER: A1784

PROGRAM ELEMENT TITLE: TOMAHAWK AND THEATER MISSION PLANNING CENTER
PROJECT TITLE: THEATER MISSION PLANNING CENTER

(U) COST: (Dollars in Thousands)

<u>Project Number & Title</u>	<u>FY 1998 Budget</u>	<u>FY 1999 Budget</u>	<u>FY 2000 Estimate</u>	<u>FY 2001 Estimate</u>	<u>FY 2002 Estimate</u>	<u>FY 2003 Estimate</u>	<u>FY 2004 Estimate</u>	<u>FY 2005 Estimate</u>	<u>To Complete</u>	<u>Total Program</u>
A1784 Theater Mission Planning Center	\$2,903	\$2,562	\$1,906	\$1,891	\$22	\$28	\$28	\$28	\$0	\$96,816
TOTAL	\$2,903	\$2,562	\$1,906	\$1,891	\$22	\$28	\$28	\$28	\$0	\$96,816

Quantity of RDT&E Articles

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

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) allows TOMAHAWK users the capability to transmit and receive mission data updates in a tactical environment. The Electronic TOMAHAWK Employment Planning Package (ETEPP) provides the TOMAHAWK user with command and control information needed to employ TOMAHAWK missions.

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PROGRAM ELEMENT TITLE: TOMAHAWK AND THEATER MISSION PLANNING CENTER
PROJECT TITLE: THEATER MISSION PLANNING CENTER

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. FY 1998 ACCOMPLISHMENTS:

[\$1,698] Updated TMPC for integration of New National Sensors and Software Architectural Enhancements. Continued to explore and develop software changes to maintain parity with the commercial off the shelf world, to develop increases in throughput and processing efficiency, and to develop adaptations to interface changes mandated by other systems such as imagery systems.

[\$1,205] Supported development of enhancements to the MDS and ETEPP portion of the Tomahawk Strike Planning.

2. FY 1999 PLAN:

[\$1,465] Continue TMPC integration of New National Sensors and Software Architectural Enhancements.

[\$1,034] Support development of enhancements to the MDS and ETEPP portion of the Tomahawk Strike Planning Tools.

[\$63] Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.

3. FY 2000 PLAN:

[\$1,906] Continue TMPC integration of New National Sensors and Software Architectural Enhancements.

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**PROGRAM ELEMENT TITLE: TOMAHAWK AND THEATER MISSION PLANNING CENTER
PROJECT TITLE: THEATER MISSION PLANNING CENTER**

(U) B. PROGRAM CHANGE SUMMARY

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>
(U) FY 1999 President's Budget:	\$2,992	\$2,568	\$1,934
(U) Appropriated Value:	\$3,083	\$2,568	
(U) Adjustments from Pres Budget:	(\$89)	(\$6)	(\$28)
(U) FY 2000 President's Budget Submit:	\$2,903	\$2,562	\$1,906

CHANGE SUMMARY EXPLANATION:

- (U) Funding: FY98 net decrease of -\$89 thousand is made up of -\$55 thousand for Small Business Innovative Research reductions, and -\$34 thousand for the Navy's reprioritization of requirements. FY99 and FY00 decreases of -\$6 thousand and \$28 thousand respectively are for inflation adjustments.
- (U) Schedule: Not applicable.
- (U) Technical: Not applicable.

(U) C. OTHER PROGRAM FUNDING SUMMARY (Dollars in Thousands)

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To</u>	<u>Total</u>
<u>Appn</u>	<u>Budget</u>	<u>Estimate</u>	<u>Complete</u>	<u>Program</u>						
WPN	\$2,752	\$3,500	\$0	\$0	\$6,325	\$8,000	\$8,200	\$8,300	Continuing	Continuing
OPN	\$30,659	\$58,004	\$37,992	\$27,249	\$27,578	\$28,190	\$28,823	\$29,298	Continuing	Continuing

Related RDT&E

Not applicable.

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(U) D. ACQUISITION STRATEGY:

The acquisition strategy for this project is maintain contractual continuity to develop system updates to continue TMPC integration of New National Sensors and Software Architectural Enhancements.

(U) E. Program Milestones

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>
Program Milestones	3Q-4Q Release to Fleet TMPC 3.1	3Q-4Q Release to Fleet TMPC 4.0	Annual Fleet Release
Engineering Milestones	None	None	None
Contract Milestones	TMPC APS	TMPC APS	TMPC APS

R-1 Item No. 157
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EXHIBIT R-3, FY 2000RDT&E,N COST ANALYSIS

DATE: February 1999

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0204229N

PROJECT NUMBER: A1784

PROGRAM ELEMENT TITLE: TOMAHAWK AND THEATER MISSION PLANNING CENTER
PROJECT TITLE: THEATER MISSION PLANNING CENTER

<u>Cost Categories:</u>	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior Yrs Cost</u>	<u>FY 1999 Cost</u>	<u>FY 1999 Award Date</u>	<u>FY 2000 Cost</u>	<u>FY 2000 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
Primary Hardware Development	Comp/FP	Boeing, St Louis, MO	\$36,841							
	SS/CPFF	GD/E, San Diego, CA	\$11,342							
	Economy Act	NCCOSC, San Diego, CA	\$4,325							
		Misc. Items 1974-1997	\$34,940							
	CPFF	Lockheed, Bethesda, MD	\$100	\$700	11/98	\$527	11/99	Continuing	Continuing	
	CPFF	MTL, Classified	\$360	\$400	11/98	\$300	11/99	Continuing	Continuing	
	Economy Act	NSWC, Dahlgren, VA	\$1,253	\$0		\$0		Continuing	Continuing	
Subtotal Project Development			\$89,161	\$1,100		\$827				
Remarks:	None.									
Development Support	CPFF	SAIC, Arlington, VA	\$646	\$699	11/98	\$552	11/99	Continuing	Continuing	
	UARC	APL, Laurel, MD	\$544	\$700	1/99	\$527	1/00	Continuing	Continuing	
Subtotal Support			\$1,190	\$1,462		\$1,079				
Remarks:	None.									
Developmental Test & Evaluation										
Subtotal Test & Evaluation			\$0	\$0		\$0		\$0	\$0	
Remarks:	None.									
Subtotal Management			\$0	\$0		\$0		\$0	\$0	
		SBIR Assessment		\$63						
Remarks:	None.									
Total Cost			\$90,351	\$2,562		\$1,906		Continuing	Continuing	

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