	EXHIBIT R-2, RDT&E Budget Item Justification D.														
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENO	LATURE								
REASEARCH DEVELOPMENT TEST & EVALUATION, NAV	Υ /		BA 7			0204229N, TOMAH	AWK & TMPC								
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011								
Total PE Cost	31.227	27.029	18.635	13.975	14.218	13.485	11.888								
A0545 TOMAHAWK	31.227	20.029	18.635	13.975	14.218	13.485	11.888								
9999 CONGRESSIONAL ADD	·	7.000					·								

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

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, and includes all missile development, mission planning system development, and submarine and surface ship weapons control system development.

The Tactical Tomahawk (TACTOM) All-Up-Round Block IV missile development is a comprehensive spiral baseline upgrade to the TWS that provides the tactical commander a quick reaction response capability as well as improved flexibility, increased accuracy, and higher lethality. A five year multi-year (FY04-FY08) production contract was awarded in August 2004 for the production of up to 2200 block IV tomahawk missiles. The essential upgrades of the Block IV missile are improved guidance, navigation, control and mission computer; two-way satellite communications; and a significantly lower production cost as compared to the BLOCK III missile. Block IV provides 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. Block IV also includes a high anti-jam GPS receiver, navigation improvements and associated antenna systems. The Tomahawk program (A0545) also includes development of Torpedo Tube Launch (TTL) capability for submarines and the continuing advances identified as spiral development under the Tomahawk Baseline IV Operation Requirements Document (ORD).

The Tomahawk Command and Control System (TC2S) Theater Mission Planning Center (TMPC) and Afloat Planning System (APS) (a shipboard version of TMPC) provide mission planning and employment support information for the nuclear (TMPC only) and conventional TLAM, including distribution of mission data and command information essential to TLAM employment via the Mission Distribution System (MDS) and associated communications infrastructure. Development of Tactical Tomahawk capabilities in TMPC/APS/MDS includes software development, integration, test, and delivery, including support for training development, installation planning, and simulation/model development. This project also includes development related to national and tactical imagery architectures, as well as software development to decrease mission planning time and increase the quality and accuracy of each mission for Block III and IV TLAM.

The Tomahawk Weapons Control System provides launch capability for surface and submarine platforms. Development of the Tactical Tomahawk Weapons Control System (TTWCS) provides a common architecture to launch the Tactical Tomahawk Block IV and all variants in inventory. Development of the Tactical Tomahawk Weapons Control System (TTWCS) requirements to meet the Joint Technical Architecture (JTA) version 6 requirements to meet FORCENet compliance and be Internet Protocol Version 6 (IPV6) ready is essential for continued interoperability within the Joint Service Architecture. These efforts provide battle-group tactical flexibility and responsiveness while maximizing TWS wartime capability. TTWCS entered Engineering and Manufacturing Development (EMD) in FY99, with Phase A IOC (BLK III) in DEC 03, and Phase B IOC (TACTOM) in June 2004.

	EXHIBIT R-2a, RDT&E Project Justification														
APPROPRIATION/BUDGET ACTIVITY															
RDT&E, N /	BA 7	0204229N, TC	MAHAWK & T	MPC			A0545, TOMA	HAWK							
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011								
A0545 TOMAHAWK	31.227	20.029	18.635	13.975	14.218	13.485	11.888								
RDT&E Articles Qty															

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

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, and includes all missile development, mission planning system development, and submarine and surface ship weapons control system development.

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

The Tomahawk Weapons Control System provides launch capability for surface and submarine platforms. Development of the Tactical Tomahawk Weapons Control System (TTWCS) provides a common architecture to launch the Tactical Tomahawk Block IV and all variants in inventory. Development of the Tactical Tomahawk Weapons Control System (TTWCS) requirements to meet the Joint Technical Architecture (JTA) version 6 requirements to meet FORCENet compliance and be IPV6 ready is essential for continued interoperability within the Joint Service Architecture. These efforts provide battle-group tactical flexibility and responsiveness while maximizing TWS wartime capability. TTWCS entered Engineering and Manufacturing Development (EMD) in FY99, with Phase A IOC (BLK III) in DEC 03, and Phase B IOC (TACTOM) in June 2004.

	EXHIBI	T R-2a, RDT&E Project Justification		DATE:
				February 2006
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NA	AME
RDT&E, N /	BA 7	0204229N, TOMAHAWK & TMPC	A0545, TOMAHAWK	

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

	FY 2005	FY 2006	FY 2007
Accomplishments / Effort / Sub-total Cost	5.888	4.687	3.179
RDT&E Articles Qty			

Continue development of Tactical Tomahawk Weapons System Integrated Training Architecture, continue development of version 5 software, initiate version 6 development activities to develop JTA version 6 requirements. Complete TTWCS version 5 development, enter TECHEVAL/OPEVAL for TTWCS version 5, continue with TTWCS version 6 development efforts, begin the TTWCS version 7 development efforts that complete the implementation of JTA version 6 requirements. Complete the development of TTWCS version 6, enter the TECHEVAL/OPEVAL for TTWCS version 6, continue with TTWCS version 7 development efforts.

	FY 2005	FY 2006	FY 2007
Accomplishments / Effort / Sub-total Cost	4.699	4.772	4.747
RDT&E Articles Qty			

Continue development and incorporation of new capabilities in Tomahawk Command and Control systems necessary for the employment of Tactical Tomahawk. Support Tactical Tomahawk Weapons System OPEVAL. Continue development of related training and installation materials. Continue imagery upgrades to Tomahawk Command and Control System. Continue Test & Evaluation support for Tomahawk Command and Control Systems.

	FY 2005	FY 2006	FY 2007
Accomplishments / Effort / Sub-total Cost	20.640	10.570	10.709
RDT&E Articles Qty			

Completed OPEVAL and IOC for Tactical Tomahawk. Continue development of the Tactical Tomahawk Torpedo-Tube Launch (TT-TTL) capability. Complete TTL software and hardware qualification testing, DT/OT flight tests and IOC. Continue hardware and software trade studies for Phase 2 ORD requirements to include Selective Availability Anti-Spoofing Module (SAASM) capability into the GPS, Precision Terrain Aided Navigation capability.

Completed demonstration prototype of Precision Terrain Aided Navigation (PTAN) capability to demonstrate real-time operation. Initiate PTAN advance technology risk reduction efforts to develop next generation PTAN prototypes and to integrate PTAN capability into the missile simulation labs.

PPROPRIATION/BUDGET ACTIVITY DT&E, N / PROGRAM CHANGE SUMMARY Funding: Previous President's Buget: Current BES / President's Budget: Total Adjustments Summary of Adjustments Congressional Reductions Congressional Undistributed Reductions Congressional Increases Programmatic Adjustments Economic Assumptions Miscellaneous Adjustments Subto Schedule: lock IV successfully completed IOC in May 2004 and rec	FY 2005 31.473 31.227 -0.246	FY 2006 20.342 20.029 -0.313	EMENT NUMBER AND NAME MAHAWK & TMPC FY 2007 17.480 18.635 1.155		PROJECT NUMBER A0545, TOMAHAWK	AND NAME	February 2006
PROGRAM CHANGE SUMMARY Funding: Previous President's Buget: Current BES / President's Budget: Total Adjustments Summary of Adjustments Congressional Reductions Congressional Rescissions Congressional Undistributed Reductions Congressional Increases Programmatic Adjustments Economic Assumptions Miscellaneous Adjustments Subto	FY 2005 31.473 31.227 -0.246 -0.645	FY 2006 20.342 20.029 -0.313	FY 2007 17.480 18.635 1.155			AND NAME	
Funding: Previous President's Buget: Current BES / President's Budget: Total Adjustments Summary of Adjustments Congressional Reductions Congressional Undistributed Reductions Congressional Increases Programmatic Adjustments Economic Assumptions Miscellaneous Adjustments Subto	FY 2005 31.473 31.227 -0.246 -0.645	FY 2006 20.342 20.029 -0.313 -0.213	FY 2007 17.480 <u>18.635</u> 1.155		JAUS43, TOMAHAWK		
Funding: Previous President's Buget: Current BES / President's Budget: Total Adjustments Summary of Adjustments Congressional Reductions Congressional Rescissions Congressional Undistributed Reductions Congressional Increases Programmatic Adjustments Economic Assumptions Miscellaneous Adjustments Subto	31.473 31.227 -0.246 -0.645	20.342 20.029 -0.313 -0.213	17.480 <u>18.635</u> 1.155				
Previous President's Buget: Current BES / President's Budget: Total Adjustments Summary of Adjustments Congressional Reductions Congressional Rescissions Congressional Undistributed Reductions Congressional Increases Programmatic Adjustments Economic Assumptions Miscellaneous Adjustments Subto	31.473 31.227 -0.246 -0.645	20.342 20.029 -0.313 -0.213	17.480 <u>18.635</u> 1.155				
Current BES / President's Budget: Total Adjustments Summary of Adjustments Congressional Reductions Congressional Undistributed Reductions Congressional Increases Programmatic Adjustments Economic Assumptions Miscellaneous Adjustments Subto	31.227 -0.246 -0.645	20.029 -0.313 -0.213	<u>18.635</u> 1.155				
Total Adjustments Summary of Adjustments Congressional Reductions Congressional Undistributed Reductions Congressional Increases Programmatic Adjustments Economic Assumptions Miscellaneous Adjustments Subto	-0.246 -0.645 <u>0.399</u>	-0.313 -0.213	1.155				
Summary of Adjustments Congressional Reductions Congressional Rescissions Congressional Undistributed Reductions Congressional Increases Programmatic Adjustments Economic Assumptions Miscellaneous Adjustments Subto	-0.645 <u>0.399</u>	-0.213 -0.092					
Congressional Reductions Congressional Rescissions Congressional Undistributed Reductions Congressional Increases Programmatic Adjustments Economic Assumptions Miscellaneous Adjustments Subto	<u>0.399</u>	-0.092	1.100				
Congressional Rescissions Congressional Undistributed Reductions Congressional Increases Programmatic Adjustments Economic Assumptions Miscellaneous Adjustments Subto	<u>0.399</u>	-0.092	1.100				
Congressional Undistributed Reductions Congressional Increases Programmatic Adjustments Economic Assumptions Miscellaneous Adjustments Subto	<u>0.399</u>	-0.092	1.100				
Congressional Increases Programmatic Adjustments Economic Assumptions Miscellaneous Adjustments Subto	<u>0.399</u>	-0.092	1.100				
Programmatic Adjustments Economic Assumptions Miscellaneous Adjustments Subto			1.100				
Miscellaneous Adjustments Subto							
Subto							
Schedule:			<u>0.055</u>				
	otal -0.246	-0.313	1.155				
008 production. Torpedo Tube Launch capability qualific							
MA-280 waiver to JCS SAASM mandate.	and mind thingsto	no o wiii oompie	7.0 II. 10. QII. 1 1 2007 10.10 NO	<i>by 51701</i> and 1001	2000. Од Сем на барах	3.00 10 10 0 111 0 10	Q. 1 1 2000 Bacoca 011 0al
Technical:							

	DATE:								
									February 2006
PPROPRIATION/BUDGET ACTIVITY		PROGRAM ELI	_		E		PROJECT NUMBER A	ND NAME	
DT&E, N /	BA 7	0204229N, TO	MAHAWK & II	мРС			A0545, TOMAHAWK		
O. OTHER PROGRAM FUNDING SUMMARY:	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost
VPN BLI 210100 Tomahawk	277.239	372.396	354.565	405.818	418.062	435.625	442.421	CONT	11,821.453
PN BLI 525000 Surface Tomahawk Support Equipment	70.161	0.000	0.000	0.000	0.000	0.000	0.000		1,699.600
PN BLI 525500 Submarine Tomahawk Support Equipment	5.432	0.000	0.000	0.000	0.000	0.000	0.000		143.200
PN BLI 525300 Tomahawk Support Equipment	0.000	74.081	61.185	48.789	45.441	45.862	45.896	CONT	901.100
PN Spares BLI 902010 Initial Spares	1.296	1.649	0.789	0.901	0.000	0.000	0.000	CONT	4.635
PN Spares BLI 902090 Vendor Direct Spares	0.883	0.712	0.615	0.411	0.273	0.064	0.000	CONT	2.958

E. ACQUISITION STRATEGY:

(U) D. ACQUISITION STRATEGY: In 1998, the Tomahawk Baseline Improvement Program (TBIP) transitioned to the Tactical Tomahawk (Block IV) 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 was a cost sharing contract between the Government and the Contractor to add capability to the missile. A multiyear full rate production contract was awarded in August 2004 for FY 2004-2008 production.

Torpedo Tube Launch (TTL) capability will IOC in FY 2008. TTL missiles will be procured within the current missile production budget as required to meet Fleet loadout requirements. Other spiral development capabilities will be introduced after successful qualification and testing.

Exhibit R-3 Cost Analysis (page 1)									DATE:	Februa	ry 2006	
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT				PROJECT N	NUMBER AN	D NAME	1		.,	
RDT&E. N /	BA 7	0204229N, TOMAHAWK & TMPC					-		STEM (TWS)			
(D QE, 1 /	Contract	020 122011, 1 0107 117 171111 0				00 10, 101011	(1.17 (VVII.) VVII.	11 0110 010	1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1			Targe
	Method &		Total PY s	FY 2005	FY 2005	FY 2006	FY 2006	FY 2007	FY 2007	Cost to		Value
Cost Cotomorios		Derforming Activity 9 Legation			Award Date		Award Date		Award Date		Total Cost	
Cost Categories	Type	Performing Activity & Location	Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Complete	Total Cost	Contra
PRODUCT DEVELOPMENT	0.0045	LOCALISED MARTIN CORP. V. II	22 = 12		40/04/0004		40/00/000		10/00/0000		21222	
PHD - Weapons Control System	C-CPAF	LOCKHEED MARTIN CORP, Valley Forge, PA		1.400	12/31/2004	.803	12/30/2005	.150	12/29/2006	1.427	94.292	94.
Award Fee WCS			4.996								4.996	4.
PHD-Mission Planning Systems TC2S		COMGLOBAL SYSTEMS, INC, San Jose, CA	32.633	1.862			12/30/2005	1.950	12/29/2006	8.165	46.429	46.
PHD-Mission Planning Systems TC2S		VARIOUS	7.347	.327	VARIOUS						7.674	7.
Primary Hardware Devel - AUR (C/CPFF)	C-CPFF	RAYTHEON COMPANY, Tucson, AZ	217.622	.160	11/4/2004	4.027	11/1/2005	1.000	11/1/2006	8.542	231.351	231.
Primary Hardware Devel - PTAN (C/CPFF	C-CPFF	RAYTHEON COMPANY, Tucson, AZ		1.690	6/8/2005						1.690	1.
Primary Hardware Devel - SAASM (C/CP	C-CPFF	RAYTHEON COMPANY, Tucson, AZ						1.143	3/31/2007	1.625	2.768	2.
Primary Hardware Devel - TTL (C/CPAF)		RAYTHEON COMPANY, Tucson, AZ	10.469	3.905	3/31/2005						14.374	14.
Primary Hardware Devel - TTL Award Fee		RAYTHEON COMPANY, Tucson, AZ	.819								.819	
Primary Hardware Devel - TTPC (C/CPFF		RAYTHEON COMPANY, Tucson, AZ	3.189								3.189	3.
Ship Integration - Launcher Integration		NAVSEASYSCOM, WNY DC	24.316	1.006	12/1/2004	1.301	12/1/2005	3.285	12/1/2006	3.772	33.680	37
Award Fee Launcher Integration	100	TATABLA TO TO TO THE TATABLE TO THE	.752	1.000	12/1/2004	1.501	12/1/2003	5.205	12/1/2000	5.112	.752	31
Systems Eng - Weapons Control System	CC CDEE	JOHNS HOPKINS UNIVERSITY, Laurel, MD	2.916	.819	VARIOUS	.875	VARIOUS	.150	VARIOUS	.345	5.105	5
Systems Engineering - AUR (C/FP)			14.203	.619	VARIOUS	.034		.150	VARIOUS	.345	14.237	14
		RAYTHEON COMPANY, Tucson, AZ				.034	11/1/2005					
Systems Engineering - AUR (C/FP)		BOEING, St Louis, MO	3.000								3.000	3
Systems Engineering - AUR (SS/CPFF)		JOHNS HOPKINS UNIVERSITY, Laurel, MD	25.234	1.745	1/3/2005	.725	1/1/2006	1.000	1/1/2007	1.976	30.680	33
Systems Engineering - PTAN (SS/CPFF)		JOHNS HOPKINS UNIVERSITY, Laurel, MD		.525	1/3/2005						.525	
Systems Engineering - SAASM (C/CPFF)	TBD	JOHNS HOPKINS UNIVERSITY, Laurel, MD						.330	3/31/2007	1.275	1.605	1
Systems Engineering - TTL (C/FP)	C-FP	RAYTHEON COMPANY, Tucson, AZ		.384	1/3/2005	.118	1/1/2006				.502	
Systems Engineering - TTL (SS/CPFF)	SS-CPFF	JOHNS HOPKINS UNIVERSITY, Laurel, MD		.587	1/3/2005	.250	1/1/2006				.837	
1974 through TBIP Costs in 1996	1		2,176.447								2,176.447	
SUBTOTAL PRODUCT DEVELOPMENT	+		2,614.455	14.410		9.952		9.008		27.127	2,674.952	
SUPPORT			1									
JOI I OINI												
Davidon Support - Washana Cantral Cont	14/0	NUWC DET Nowport DI	10 600	2 000	12//2004	EOF	11/20/2005	440	11/20/2006	740	24 004	
Develop Support - Weapons Control Syst		NUWC DET, Newport, RI	18.623	2.009			11/30/2005		11/30/2006	.718	21.991	1.1
Development Support - AUR (SS/CPFF)	SS-CPFF	SAIC, San Diego, CA	18.623 8.913		12//2004 12/31/2004		11/30/2005 12/31/2005		11/30/2006 12/31/2006	3.273	14.159	
Development Support - AUR (SS/CPFF) Development Support - AUR (TBD)	SS-CPFF TBD	SAIC, San Diego, CA VARIOUS	8.913	.787	12/31/2004	.736	12/31/2005	.450	12/31/2006	3.273 .030	14.159 .030	
Development Support - AUR (SS/CPFF) Development Support - AUR (TBD) Development Support - AUR (WR)	SS-CPFF TBD VARIOUS	SAIC, San Diego, CA VARIOUS VARIOUS		.882	12/31/2004 VARIOUS	.736	12/31/2005		12/31/2006	3.273	14.159 .030 76.837	
Development Support - AUR (SS/CPFF) Development Support - AUR (TBD) Development Support - AUR (WR) Development Support - PTAN (VARIOUS	SS-CPFF TBD VARIOUS VARIOUS	SAIC, San Diego, CA VARIOUS VARIOUS VARIOUS VARIOUS	8.913 63.256	.787 .882 .010	12/31/2004 VARIOUS VARIOUS	.391	12/31/2005	.450	12/31/2006	3.273 .030	14.159 .030 76.837 .010	
Development Support - AUR (SS/CPFF) Development Support - AUR (TBD) Development Support - AUR (WR) Development Support - PTAN (VARIOUS Development Support - PTAN (C/CPFF)	SS-CPFF TBD VARIOUS VARIOUS C-CPFF	SAIC, San Diego, CA VARIOUS VARIOUS VARIOUS VARIOUS HONEYWELL INTL INC, Minneapolis, MN	8.913	.787 .882 .010 3.425	12/31/2004 VARIOUS VARIOUS 1/31/2005	.736	12/31/2005	.450	12/31/2006	3.273 .030	14.159 .030 76.837 .010 7.349	
Development Support - AUR (SS/CPFF) Development Support - AUR (TBD) Development Support - AUR (WR) Development Support - PTAN (VARIOUS Development Support - PTAN (C/CPFF) Development Support - PTAN (WR)	SS-CPFF TBD VARIOUS VARIOUS C-CPFF WR	SAIC, San Diego, CA VARIOUS VARIOUS VARIOUS VARIOUS HONEYWELL INTL INC, Minneapolis, MN NAWCWD, China Lake, CA	8.913 63.256	.787 .882 .010 3.425 .255	12/31/2004 VARIOUS VARIOUS 1/31/2005 3/17/2005	.736	12/31/2005 VARIOUS	.450	12/31/2006	3.273 .030	14.159 .030 76.837 .010 7.349	7
Development Support - AUR (SS/CPFF) Development Support - AUR (TBD) Development Support - AUR (WR) Development Support - PTAN (VARIOUS Development Support - PTAN (C/CPFF) Development Support - PTAN (WR) Development Support - TTL (SS/CPFF)	SS-CPFF TBD VARIOUS VARIOUS C-CPFF WR SS-CPFF	SAIC, San Diego, CA VARIOUS VARIOUS VARIOUS HONEYWELL INTL INC, Minneapolis, MN NAWCWD, China Lake, CA SAIC, San Diego, CA	8.913 63.256 3.924	.787 .882 .010 3.425 .255	VARIOUS VARIOUS 1/31/2005 3/17/2005 11/1/2005	.391	12/31/2005 VARIOUS 11/1/2005	.450	12/31/2006	3.273 .030	14.159 .030 76.837 .010 7.349 .255 .492	7.
Development Support - AUR (SS/CPFF) Development Support - AUR (TBD) Development Support - AUR (WR) Development Support - PTAN (VARIOUS Development Support - PTAN (C/CPFF) Development Support - PTAN (WR) Development Support - TTL (SS/CPFF)	SS-CPFF TBD VARIOUS VARIOUS C-CPFF WR SS-CPFF	SAIC, San Diego, CA VARIOUS VARIOUS VARIOUS VARIOUS HONEYWELL INTL INC, Minneapolis, MN NAWCWD, China Lake, CA	8.913 63.256	.787 .882 .010 3.425 .255	VARIOUS VARIOUS 1/31/2005 3/17/2005 11/1/2005	.391	12/31/2005 VARIOUS	.450	12/31/2006	3.273 .030	14.159 .030 76.837 .010 7.349	7
Development Support - AUR (SS/CPFF) Development Support - AUR (TBD) Development Support - AUR (WR) Development Support - PTAN (VARIOUS Development Support - PTAN (C/CPFF) Development Support - PTAN (WR) Development Support - TTL (SS/CPFF) Development Support - TTL (WR)	SS-CPFF TBD VARIOUS VARIOUS C-CPFF WR SS-CPFF	SAIC, San Diego, CA VARIOUS VARIOUS VARIOUS HONEYWELL INTL INC, Minneapolis, MN NAWCWD, China Lake, CA SAIC, San Diego, CA	8.913 63.256 3.924	.787 .882 .010 3.425 .255	VARIOUS VARIOUS 1/31/2005 3/17/2005 11/1/2005	.391	12/31/2005 VARIOUS 11/1/2005 11/30/2005	.450	12/31/2006	3.273 .030	14.159 .030 76.837 .010 7.349 .255 .492	7
Development Support - AUR (SS/CPFF) Development Support - AUR (TBD) Development Support - AUR (WR) Development Support - PTAN (VARIOUS Development Support - PTAN (C/CPFF) Development Support - PTAN (WR) Development Support - TTL (SS/CPFF) Development Support - TTL (WR) Development Support - TTL (WR)	SS-CPFF TBD VARIOUS VARIOUS C-CPFF WR SS-CPFF WR VARIOUS	SAIC, San Diego, CA VARIOUS VARIOUS VARIOUS HONEYWELL INTL INC, Minneapolis, MN NAWCWD, China Lake, CA SAIC, San Diego, CA NUWC DET, Newport, RI	8.913 63.256 3.924 8.352	.787 .882 .010 3.425 .255 .281 2.169	VARIOUS VARIOUS 1/31/2005 3/17/2005 11/1/2005 3/30/2005	.736 .391 .211 1.661	12/31/2005 VARIOUS 11/1/2005 11/30/2005	.450	12/31/2006 VARIOUS	3.273 .030	14.159 .030 76.837 .010 7.349 .255 .492 12.182	7
Development Support - AUR (SS/CPFF) Development Support - AUR (TBD)	SS-CPFF TBD VARIOUS VARIOUS C-CPFF WR SS-CPFF WR VARIOUS WR	SAIC, San Diego, CA VARIOUS VARIOUS VARIOUS HONEYWELL INTL INC, Minneapolis, MN NAWCWD, China Lake, CA SAIC, San Diego, CA NUWC DET, Newport, RI VARIOUS	8.913 63.256 3.924 8.352	.787 .882 .010 3.425 .255 .281 2.169	VARIOUS VARIOUS 1/31/2005 3/17/2005 11/1/2005 3/30/2005	.736 .391 .211 1.661	12/31/2005 VARIOUS 11/1/2005 11/30/2005	.812	VARIOUS VARIOUS VARIOUS	3.273 .030 11.496	14.159 .030 76.837 .010 7.349 .255 .492 12.182	7
Development Support - AUR (SS/CPFF) Development Support - AUR (TBD) Development Support - AUR (WR) Development Support - PTAN (VARIOUS Development Support - PTAN (C/CPFF) Development Support - PTAN (WR) Development Support - TTL (SS/CPFF) Development Support - TTL (WR) Development Support - TTL (WR) Development Support - TTL (WR) Government Engineering Support - SAAS Government Engineering Support - SAAS	SS-CPFF TBD VARIOUS VARIOUS C-CPFF WR SS-CPFF WR VARIOUS VARIOUS VARIOUS	SAIC, San Diego, CA VARIOUS VARIOUS VARIOUS HONEYWELL INTL INC, Minneapolis, MN NAWCWD, China Lake, CA SAIC, San Diego, CA NUWC DET, Newport, RI VARIOUS STRATEGIC SYSTEMS PRGRMS, Wash, DC	8.913 63.256 3.924 8.352	.787 .882 .010 3.425 .255 .281 2.169	VARIOUS VARIOUS 1/31/2005 3/17/2005 11/1/2005 3/30/2005	.736 .391 .211 1.661	12/31/2005 VARIOUS 11/1/2005 11/30/2005	.450 .812	VARIOUS VARIOUS VARIOUS	3.273 .030 11.496	14.159 .030 76.837 .010 7.349 .255 .492 12.182 .927 2.525	7
Development Support - AUR (SS/CPFF) Development Support - AUR (TBD) Development Support - AUR (WR) Development Support - PTAN (VARIOUS Development Support - PTAN (C/CPFF) Development Support - PTAN (WR) Development Support - TTL (SS/CPFF) Development Support - TTL (WR) Development Support - TTL (WR) Development Support - TTL (WR) Government Engineering Support - SAAS Government Engineering Support - SAAS Goft Dev - Mission Plan Systems (TC2S)*	SS-CPFF TBD VARIOUS VARIOUS C-CPFF WR SS-CPFF WR VARIOUS VARIOUS VARIOUS VARIOUS	SAIC, San Diego, CA VARIOUS VARIOUS VARIOUS VARIOUS HONEYWELL INTL INC, Minneapolis, MN NAWCWD, China Lake, CA SAIC, San Diego, CA NUWC DET, Newport, RI VARIOUS STRATEGIC SYSTEMS PRGRMS, Wash, DC VARIOUS VARIOUS	8.913 63.256 3.924 8.352	.787 .882 .010 3.425 .255 .281 2.169	VARIOUS VARIOUS 1/31/2005 3/17/2005 11/1/2005 3/30/2005	.736 .391 .211 1.661	12/31/2005 VARIOUS 11/1/2005 11/30/2005	.450 .812	VARIOUS VARIOUS VARIOUS	3.273 .030 11.496	14.159 .030 76.837 .010 7.349 .255 .492 12.182 .927 2.525 1.044	7.
Development Support - AUR (SS/CPFF) Development Support - AUR (TBD) Development Support - AUR (WR) Development Support - PTAN (VARIOUS) Development Support - PTAN (C/CPFF) Development Support - PTAN (WR) Development Support - TTL (SS/CPFF) Development Support - TTL (WR) Development Support - SAAS Government Engineering Support - SAAS Got Dev - Mission Plan Systems (TC2S)* Soft Dev-Mission Plan Syst TC2S	SS-CPFF TBD VARIOUS VARIOUS VARIOUS VARIOUS SS-CPFF WR VARIOUS VARIOUS VARIOUS SS/CPFF	SAIC, San Diego, CA VARIOUS VARIOUS VARIOUS VARIOUS HONEYWELL INTL INC, Minneapolis, MN NAWCWD, China Lake, CA SAIC, San Diego, CA NUWC DET, Newport, RI VARIOUS STRATEGIC SYSTEMS PRGRMS, Wash, DC VARIOUS RAYTHEON, Arlington, VA	8.913 63.256 3.924 8.352	.787 .882 .010 3.425 .255 .281 2.169	12/31/2004 VARIOUS VARIOUS 1/31/2005 3/17/2005 11/1/2005 VARIOUS	.736 .391 .211 1.661 .200	12/31/2005 VARIOUS 11/1/2005 11/30/2005 VARIOUS	2.475 .214	VARIOUS VARIOUS VARIOUS VARIOUS VARIOUS	3.273 .030 11.496 .050 .830 8.701	14.159 .030 76.837 .010 7.349 .255 .492 12.182 .927 2.525 1.044 8.701 5.100	7 8 8 5
Development Support - AUR (SS/CPFF) Development Support - AUR (TBD) Development Support - AUR (WR) Development Support - PTAN (VARIOUS Development Support - PTAN (C/CPFF) Development Support - PTAN (WR) Development Support - TTL (SS/CPFF) Development Support - TTL (WR) Government Engineering Support - SAAS Government Engineering Support - SAAS Soft Dev - Mission Plan Systems (TC2S)* Soft Dev-Mission Plan Sys TC2S	SS-CPFF TBD VARIOUS VARIOUS VARIOUS VARIOUS SS-CPFF WR VARIOUS VARIOUS VARIOUS SS/CPFF SS-CPFF	SAIC, San Diego, CA VARIOUS VARIOUS VARIOUS VARIOUS HONEYWELL INTL INC, Minneapolis, MN NAWCWD, China Lake, CA SAIC, San Diego, CA NUWC DET, Newport, RI VARIOUS STRATEGIC SYSTEMS PRGRMS, Wash, DC VARIOUS VARIOUS RAYTHEON, Arlington, VA JOHNS HOPKINS UNIVERSITY, Laurel, MD	8.913 63.256 3.924 8.352 5.100 15.443	.787 .882 .010 3.425 .255 .281 2.169 .727	12/31/2004 VARIOUS VARIOUS 1/31/2005 3/17/2005 11/1/2005 VARIOUS	.736 .391 .211 1.661 .200	12/31/2005 VARIOUS 11/1/2005 11/30/2005 VARIOUS	2.475 .214	12/31/2006 VARIOUS VARIOUS VARIOUS 12/29/2006	3.273 .030 11.496 .050 .830 8.701	14.159 .030 76.837 .010 .030 .030 .030 .030 .030 .030 .030	14. 7. 8. 5. 20.
Development Support - AUR (SS/CPFF) Development Support - AUR (TBD) Development Support - AUR (WR) Development Support - PTAN (VARIOUS Development Support - PTAN (C/CPFF) Development Support - PTAN (WR) Development Support - TTL (SS/CPFF) Development Support - TTL (WR) Development Support - SAAS Government Engineering Support - SAAS Government Engineering Support - SAAS Gott Dev-Mission Plan Sys TC2S Soft Dev-Mission Plan Sys TC2S Soft Dev-Mission Plan Sys TC2S Soft Dev-Mission Plan Sys TC2S	SS-CPFF TBD VARIOUS VARIOUS VARIOUS C-CPFF WR SS-CPFF WR VARIOUS VARIOUS VARIOUS VARIOUS SS/CPFF SS-CPFF	SAIC, San Diego, CA VARIOUS VARIOUS VARIOUS VARIOUS HONEYWELL INTL INC, Minneapolis, MN NAWCWD, China Lake, CA SAIC, San Diego, CA NUWC DET, Newport, RI VARIOUS STRATEGIC SYSTEMS PRGRMS, Wash, DC VARIOUS VARIOUS VARIOUS VARIOUS RAYTHEON, Arlington, VA JOHNS HOPKINS UNIVERSITY, Laurel, MD LOCKHEED, Valley Forge, PA	8.913 63.256 3.924 8.352	.787 .882 .010 3.425 .255 .281 2.169 .727	12/31/2004 VARIOUS VARIOUS 1/31/2005 3/17/2005 11/1/2005 VARIOUS	.736 .391 .211 1.661 .200	12/31/2005 VARIOUS 11/1/2005 11/30/2005 VARIOUS 12/30/2005 12/30/2005	2.475 .214 1.150	12/31/2006 VARIOUS VARIOUS VARIOUS VARIOUS 12/29/2006 12/29/2006	3.273 .030 11.496 .050 .830 8.701 1.200	14.159 .030 76.837 .010 7.349 .255 .492 12.182 .927 2.525 1.044 8.701 5.100 20.196	8 5 20
Development Support - AUR (SS/CPFF) Development Support - AUR (TBD) Development Support - AUR (WR) Development Support - PTAN (VARIOUS Development Support - PTAN (C/CPFF) Development Support - PTAN (WR) Development Support - TTL (SS/CPFF) Development Support - TTL (WR) Development Support - SAAS Government Engineering Support - SAAS Government Engineering Support - SAAS Goft Dev - Mission Plan Systems (TC2S)* Soft Dev-Mission Plan Sys TC2S	SS-CPFF TBD VARIOUS VARIOUS VARIOUS C-CPFF WR SS-CPFF WR VARIOUS VARIOUS VARIOUS SS/CPFF SS-CPFF SS-CPFF	SAIC, San Diego, CA VARIOUS VARIOUS VARIOUS VARIOUS HONEYWELL INTL INC, Minneapolis, MN NAWCWD, China Lake, CA SAIC, San Diego, CA NUWC DET, Newport, RI VARIOUS STRATEGIC SYSTEMS PRGRMS, Wash, DC VARIOUS VARIOUS VARIOUS VARIOUS VARIOUS VARIOUS HOPKINS UNIVERSITY, Laurel, MD LOCKHEED, Valley Forge, PA HQ SEC OF AF-FMB, Washington, DC	8.913 63.256 3.924 8.352 5.100 15.443 5.794	.787 .882 .010 3.425 .255 .281 2.169 .727	12/31/2004 VARIOUS VARIOUS 1/31/2005 3/17/2005 11/1/2005 VARIOUS	.736 .391 .211 1.661 .200	12/31/2005 VARIOUS 11/1/2005 11/30/2005 VARIOUS	2.475 .214 1.150	12/31/2006 VARIOUS VARIOUS VARIOUS 12/29/2006	3.273 .030 11.496 .050 .830 8.701	14.159 .030 .76.837 .010 .7.349 .255 .492 12.182 .927 .2.525 1.044 8.701 5.100 20.196 11.501	8 5 20 11
Development Support - AUR (SS/CPFF) Development Support - AUR (TBD) Development Support - AUR (WR) Development Support - PTAN (VARIOUS Development Support - PTAN (CPFF) Development Support - PTAN (WR) Development Support - TTL (SS/CPFF) Development Support - TTL (WR) Development Support - SAAS GOVERNMENT - SAAS GOTT Dev-Mission Plan Systems (TC2S)* SOFT Dev-Mission Plan Sys TC2S	SS-CPFF TBD VARIOUS VARIOUS C-CPFF WR SS-CPFF WR VARIOUS VARIOUS VARIOUS SY/CPFF SS-CPFF SS-CPFF SS-CPFF SS-CPFF	SAIC, San Diego, CA VARIOUS VARIOUS VARIOUS VARIOUS HONEYWELL INTL INC, Minneapolis, MN NAWCWD, China Lake, CA SAIC, San Diego, CA NUWC DET, Newport, RI VARIOUS STRATEGIC SYSTEMS PRGRMS, Wash, DC VARIOUS VARIOUS RAYTHEON, Arlington, VA JOHNS HOPKINS UNIVERSITY, Laurel, MD LOCKHEED, Valley Forge, PA HQ SEC OF AF-FMB, Washington, DC SAIC, San Diego, CA	8.913 63.256 3.924 8.352 5.100 15.443 5.794	.787 .882 .010 3.425 .255 .281 2.169 .727	12/31/2004 VARIOUS VARIOUS 1/31/2005 3/17/2005 3/30/2005 VARIOUS 12/31/2004 12/31/2004	.736 .391 .211 1.661 .200 .250	12/31/2005 VARIOUS 11/1/2005 11/30/2005 VARIOUS 12/30/2005 12/30/2005	2.475 .214 1.150 1.397 .250	12/31/2006 VARIOUS VARIOUS VARIOUS VARIOUS 12/29/2006 12/29/2006	3.273 .030 11.496 .050 .830 8.701 1.200 1.500	14.159 .030 .76.837 .010 .7.349 .255 .492 12.182 .927 2.525 1.044 8.701 5.100 20.196 11.501 .750	8 5 20 11
Development Support - AUR (SS/CPFF) Development Support - AUR (TBD) Development Support - AUR (WR) Development Support - PTAN (VARIOUS Development Support - PTAN (C/CPFF) Development Support - PTAN (KR) Development Support - TTL (SS/CPFF) Development Support - TTL (WR) Development Engineering Support - SAAS GOVERNMENT Engineering Support - SAAS GOVERNMENT ENGINEERING (TC2S)* Soft Dev-Mission Plan Sys TC2S	SS-CPFF TBD VARIOUS VARIOUS C-CPFF WR SS-CPFF WR VARIOUS VARIOUS VARIOUS SCPFF SS-CPFF SS-CPFF SS-CPFF SS-CPFF WR	SAIC, San Diego, CA VARIOUS VARIOUS VARIOUS VARIOUS HONEYWELL INTL INC, Minneapolis, MN NAWCWD, China Lake, CA SAIC, San Diego, CA NUWC DET, Newport, RI VARIOUS STRATEGIC SYSTEMS PRGRMS, Wash, DC VARIOUS VARIOUS VARIOUS RAYTHEON, Arlington, VA JOHNS HOPKINS UNIVERSITY, Laurel, MD LOCKHEED, Valley Forge, PA HQ SEC OF AF-FMB, Washington, DC SAIC, San Diego, CA NSWC DAHLGRN D C XDM1 Dahlgren, VA	8.913 63.256 3.924 8.352 5.100 15.443 5.794 14.307 29.202	.787 .882 .010 3.425 .255 .281 2.169 .727	12/31/2004 VARIOUS VARIOUS 1/31/2005 3/17/2005 3/30/2005 VARIOUS 12/31/2004 12/31/2004	.736 .391 .211 1.661 .200 .250	12/31/2005 VARIOUS 11/1/2005 11/30/2005 VARIOUS 12/30/2005 12/30/2005	2.475 .214 1.150 1.397 .250	12/31/2006 VARIOUS VARIOUS VARIOUS VARIOUS 12/29/2006 12/29/2006	3.273 .030 11.496 .050 .830 8.701 1.200	14.159 .030 .76.837 .010 .7.349 .255 .492 12.182 .927 .2.525 1.044 8.701 5.100 20.196 11.501 .750 14.307	8 5 20 11 1 14
Development Support - AUR (SS/CPFF) Development Support - AUR (TBD) Development Support - AUR (WR) Development Support - PTAN (VARIOUS) Development Support - PTAN (CCPFF) Development Support - PTAN (WR) Development Support - TTL (SS/CPFF) Development Support - TTL (WR) Development Support - SAAS Government Engineering Support - SAAS Gotf Dev - Mission Plan Systems (TC2S)* Soft Dev-Mission Plan Sys TC2S	SS-CPFF TBD VARIOUS VARIOUS SS-CPFF WR VARIOUS VARIOUS VARIOUS VARIOUS SC-CPFF SS-CPFF SS-CPFF SS-CPFF SS-CPFF WR C-CPFF	SAIC, San Diego, CA VARIOUS VARIOUS VARIOUS VARIOUS HONEYWELL INTL INC, Minneapolis, MN NAWCWD, China Lake, CA SAIC, San Diego, CA NUWC DET, Newport, RI VARIOUS STRATEGIC SYSTEMS PRGRMS, Wash, DC VARIOUS VARIOUS RAYTHEON, Arlington, VA JOHNS HOPKINS UNIVERSITY, Laurel, MD LOCKHEED, Valley Forge, PA HQ SEC OF AF-FMB, Washington, DC SAIC, San Diego, CA NSWC DAHLGRN D C XDM1 Dahlgren, VA LOCKHEED, Valley Forge, PA	8.913 63.256 3.924 8.352 5.100 15.443 5.794	.787 .882 .010 3.425 .255 .281 2.169 .727 1.200 1.310	12/31/2004 VARIOUS VARIOUS 1/31/2005 3/17/2005 11/1/2005 VARIOUS VARIOUS 12/31/2004 12/31/2004	.736 .391 .211 1.661 .200 1.203 1.500 .250	12/31/2005 VARIOUS 11/1/2005 11/30/2005 VARIOUS 12/30/2005 12/30/2005	2.475 .214 1.150 1.397 .250	12/31/2006 VARIOUS VARIOUS VARIOUS VARIOUS 12/29/2006 12/29/2006	3.273 .030 11.496 .050 .830 8.701 1.200 1.500	14.159 .030 76.837 .010 7.349 .255 .492 12.182 .927 2.525 1.044 8.701 5.100 20.196 11.501 .750 14.307 39.729	8. 5. 20. 11. 1. 14.
Development Support - AUR (SS/CPFF) Development Support - AUR (TBD) Development Support - AUR (WR) Development Support - PTAN (VARIOUS Development Support - PTAN (C/CPFF) Development Support - PTAN (KR) Development Support - TTL (SS/CPFF) Development Support - TTL (WR) Development Engineering Support - SAAS GOVERNMENT Engineering Support - SAAS GOVERNMENT ENGINEERING (TC2S)* Soft Dev-Mission Plan Sys TC2S	SS-CPFF TBD VARIOUS VARIOUS SS-CPFF WR VARIOUS VARIOUS VARIOUS VARIOUS SC-CPFF SS-CPFF SS-CPFF SS-CPFF SS-CPFF WR C-CPFF	SAIC, San Diego, CA VARIOUS VARIOUS VARIOUS VARIOUS HONEYWELL INTL INC, Minneapolis, MN NAWCWD, China Lake, CA SAIC, San Diego, CA NUWC DET, Newport, RI VARIOUS STRATEGIC SYSTEMS PRGRMS, Wash, DC VARIOUS VARIOUS VARIOUS RAYTHEON, Arlington, VA JOHNS HOPKINS UNIVERSITY, Laurel, MD LOCKHEED, Valley Forge, PA HQ SEC OF AF-FMB, Washington, DC SAIC, San Diego, CA NSWC DAHLGRN D C XDM1 Dahlgren, VA	8.913 63.256 3.924 8.352 5.100 15.443 5.794 14.307 29.202	.787 .882 .010 3.425 .255 .281 2.169 .727	12/31/2004 VARIOUS VARIOUS 1/31/2005 3/17/2005 3/30/2005 VARIOUS 12/31/2004 12/31/2004	.736 .391 .211 1.661 .200 1.203 1.500 .250	12/31/2005 VARIOUS 11/1/2005 11/30/2005 VARIOUS 12/30/2005 12/30/2005	2.475 .214 1.150 1.397 .250	12/31/2006 VARIOUS VARIOUS VARIOUS 12/29/2006 12/29/2006 11/30/2006	3.273 .030 11.496 .050 .830 8.701 1.200 1.500	14.159 .030 .76.837 .010 .7.349 .255 .492 12.182 .927 .2.525 1.044 8.701 5.100 20.196 11.501 .750 14.307	7.

									DATE:			
xhibit R-3 Cost Analysis (page 1)										February	2006	
PPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT				PROJECT N						
DT&E, N /	BA 7	0204229N, TOMAHAWK & TMPC				0545, TOMA	HAWK WEA	PONS SYST	TEM (TWS)			
	T		1			1			-			
EST & EVALUATION												
ev Test & Eval (SS/CPFF)		JOHNS HOPKINS UNIVERSITY, Laurel, MD	1.602	.050	VARIOUS	.095	VARIOUS			.118	1.865	1.86
ev Test & Eval (TBD)		VARIOUS	37.023								37.023	37.02
ev Test & Eval (WR)		NUWC DET, Newport, RI		.075	1/25/2005	.108	11/30/2005			.090	.273	
ev Test & Eval (SS/CPFF)	SS/CPFF	JOHNS HOPKINS UNIVERSITY, Laurel, MD								.250	.250	.25
ev Test & Eval (SS/CPFF)	SS/CPFF	RAYTHEON COMPANY, Tucson, AZ	42.217								42.217	42.21
ev Test & Eval (WR)	VARIOUS	VARIOUS		.275	VARIOUS	.713	VARIOUS			1.313	2.301	2.30
UBTOTAL TEST & EVALUATION			80.842	.400		.916				1.771	83.929	
ANAGEMENT												
UBTOTAL MANAGEMENT												
otal Cost			2,967.457	31.227		20.029		18.635		60.566	3,097.914	

UNCLASSIFIED CLASSIFICATION:

EXHIBIT R4, Schedule																								DATE: February 2006								
APPROPRIATION/BUDGE													IUMBE		NAM	E					PROJ				D NAM	1E						
RDT&E, N /	BA-7				I				02042	29N, ⁻	TOMA	HAWK	(& TMI	PC							A0545	, TON	/AHAV	VK	1							
Fiscal Year		FY	2005	1		FY 2	2006			FY 2	2007			FY 2	2008			FY 2	2009			FY 2	2010			FY	2011					
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Acquisition Milestones								V 2	Λ_TTL	MS -C	 			\searrow	TTL IC	OC																
Missile Integration							SA	AASM	INTEG	RATIO	NC I								\\ \frac{\sqrt{1}}{\sqrt{2}}	₹ SAA	ASM IO	С										
TTWCS V5							\sim	OTRR	R																							
P31																																
Test & Evaluation Milestones										SA	ASM	D/OT&	ßE																			
Development Test Operational Test						TTL D	/ OT&I V5 OT						_																			
Production Milestones Deliveries LRIP I FY02																																
LRIP II FY03																																
LRIP III FY03						210																										
FRP FY04							MYPI	322	т '	RP 2	298		FRP 3	3 40	8	F	RP 4	350		F	RP 5	421		F	RP 6	366						
Deliveries																																

^{*} Not required for Budget Activities 1, 2, 3, and 6

CLASSIFICATION: Exhibit R-4a, Schedule Detail DATE: February 2006 APPROPRIATION/BUDGET ACTIVITY PROJECT NUMBER AND NAME PROGRAM ELEMENT RDT&BA-7 A0545, TOMAHAWK 0204229N, TOMAHAWK & TMPC Schedule Profile FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 TT LRIP-One Delivery 1Q TT LRIP-Two Delivery 1Q-4Q TT LRIP-Three Delivery 4Q 1Q-3Q TT TTL MS-C 1Q TT Preplanned Product Improvement (P3I) 1Q-4Q 1Q-4Q 1Q-4Q 1Q-4Q 1Q-4Q 1Q-4Q 1Q-4Q TT SAASM Integration 1Q-4Q 1Q-4Q Full rate Production 2Q-4Q 1Q-4Q 1Q-4Q 1Q-4Q 1Q-4Q 1Q-4Q TTWCS - V5 Operational Test Readiness Review 3Q TTWCS - V5 Operational Test & Evaluation 3Q-4Q SAASM D/OT&E 3Q-4Q SAASM IOC 30 TTL IOC 2Q

	EXHIBIT R-2a, RDT&E Project Justification														
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /															
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011								
9999, CONGRESSIONAL ADDS		7.000													
RDT&E Articles Qty															
	• '	•	-	•	•	•	•		•						
Congressional Adds: Precision Terrain-Aided Navig	gation (PTAN)														

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

0545	FY 2005	FY 2006	FY 2007
Accomplishments / Effort / Sub-total Cost		7.000	
RDT&E Articles Qty			

Initiate PTAN Advance technology risk reduction effort to develop next generation PTAN prototypes and to integrate PTAN capability into the missile simulation labs.

C. PROGRAM CHANGE SUMMARY

FY 2005 FY 2006 FY 2007 Funding:

Previous President's Buget: 0.000 Current BES / President's Budget: 7.000 **Total Adjustments** 7.000

Summary of Adjustments

Congressional Reductions Congressional Rescissions

Congressional Undistributed Reductions

Congressional Increases 7.000

Economic Assumtions

Miscellaneous Adjustments

7.000 Subtotal