

**CLASSIFICATION:**

BUDGET ITEM JUSTIFICATION SHEET P-40					DATE: <b>FEBRUARY 2004</b>					
APPROPRIATION/BUDGET ACTIVITY					P-1 ITEM NOMENCLATURE					
<b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>					<b>Other Navigation Equipment BLI: 067000 SBHD: A1GW</b>					
Program Element for Code B Items:					Other Related Program Elements					
	Prior Years	ID Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	Total
QUANTITY										
COST (In Millions)			<b>\$25.0</b>	<b>\$15.0</b>	<b>\$16.2</b>	<b>\$25.6</b>	<b>\$22.2</b>	<b>\$21.7</b>	<b>\$21.8</b>	<b>\$147.5</b>
SPARES COST (In Millions)										
<p><b>PROGRAM DESCRIPTION/JUSTIFICATION:</b></p> <p>This program provides procurement and improvements of navigation equipment such as gyrocompasses, inertial navigators, speed sensors, radars, charting systems and major components for other navigation systems.</p> <p>GW006: These funds are required for the procurement of major components such as Inertial Measuring Units (IMUs), gyroscopes, accelerometers, and depot test equipment. These components are essential to the operation and performance of AN/WSN-2/5 inertial navigation systems. Procurements associated with these components ensure the operational availability and performance of the navigation systems to support ship and combat system mission requirements. Units procured support the pipeline requirements of AN/WSN-2/5 inertial navigation systems given the Fleet population and usage rates. Procurements of components for AN/WSN-2/5 will continue during transition to AN/WSN-7 Ring Laser Gyro Navigator and AN/WSN-7B Ring Laser Gyrocompass. Depot test equipment funds support checkout and testing of these major components in a system configuration to verify performance prior to being dubbed "ready for issue".</p> <p>GW013: These funds are required to procure Navigation Field Change Kits for reliability and maintainability improvements and corrections for various conventional navigation equipment including the Dead Reckoning Equipment (DRE), Computer Aided Dead Reckoning Tracer (CADRT), plotters, gyro compasses, Electromagnetic Log (EM Log), Doppler Sonar Velocity Log (DSVL), Digital Flux Gate Magnetic Compass, and Synchro Signal Amplifier. These improvements are required to keep Fleet-installed equipment operating to a basic level.</p> <p>GW024: These funds are required to procure the AN/KSQ-1 Amphibious Assault Direction System (AADS) which integrates existing developments into a system that will support the command and control surface amphibious assaults launched from extended Over-The-Horizon (OTH) off-shore ranges. The systems adapts the USMC's Enhanced Position Location Reporting System (EPLRS) for Naval applications and integrates it with shipboard navigation and communication systems. The project is required to identify, track, communicate with and control landing craft launch through transit, offload and return.</p>										

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BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION		DATE: FEBRUARY 2004
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
<b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>	<b>Other Navigation Equipment BLI: 067000 SBHD: A1GW</b>	
<p>GW029: These funds are required to support procurement and implementation of Engineering Change Proposals (ECPs)/ Field Change (FC) Kits, alterations and update of associated technical documentation which provide reliability and maintainability improvements, corrections and upgrades for various Inertial Navigation Systems- (INS), (AN/WSN-7/7A/7B), the associated IP-1747 (Control Display Unit-CDU), and IP-1747 (Enhanced Control Display Unit-ECDU) and Aircraft Inertial Alignment System Equipment (AIAS) and (CVNS-AN/SRC-40, OU-174, TS-3543A). Funds also support procurement of hardware and software changes to the navigation suite required to integrate with Ring Laser Gyro Navigator (AN/WSN-7/7A), and Ring Laser Gyrocompass (AN/WSN-7B) and Test &amp; Integration. Funds will support technology refresh to replace parts obsolescence and keep pace with technology.</p> <ul style="list-style-type: none"> <li>- Field Change #1 to the AN/WSN-7/7A provides product improvement changes and additions to the basic system equipment to correct problems and provide enhancements to ship specific missions.</li> <li>- Field Change #2 to the AN/WSN-7 provides interface between WSN-7 and BFTT product improvement changes and additions to the basic system equipment to correct problems and provide enhancements to ship specific missions.</li> <li>- AIAS product improvements to AN/SRC-40, OU-174, TS-3543A due to obsolescence.</li> <li>-Other AN/WSN-7 operational improvements include NAVSSI integration, Lever Arm definition, vertical deflection compensation, ATM implementation, Tactical Integrated Distribution System (TIDS) integration.</li> </ul> <p>GW030: Congressional Add: These funds are required to procure and install Forward Looking Infrared (FLIR) onboard Military Sealift Command ships.</p> <p>GW032: These funds are required to procure Doppler Sonar Velocity Log (DSVL) systems for backfit on submarine and surface platforms. DSVL will replace the legacy Underwater Log System used to determine speed through the water and will provide a higher accuracy of ships speed.</p> <p>GW035: Navigation System Procurement - (AN/WSN-7/7A): These funds are required to support the acquisition, implementation and certification of the AN/WSN-7/7A Ring Laser Gyro Navigator (RLGN). System peripherals include: CDUs, ECDUs, Sync Amps, BIT Cables and Installation kits.</p> <p>GW036: Navigation System Procurement - (AN/WSN-7B): These funds are required to support the acquisition, implementation and certification of the AN/WSN-7B Ring Laser Gyrocompass (RLG). System peripherals include: CDUs, ECDUs, Sync Amps, BIT Cables and Installation kits.</p> <p>GW037: Congressional Add: These funds are required to provide a mission critical capability to build and maintain a near real time, fused, geographic-based tactical picture (as opposed to the Common Operational Picture) for use by surface and sub-surface watch standers in the Combat Information Center (CIC). The primary requirement is for a system that can handle large amounts of electronically transmitted data to produce and maintain this tactical plot and present useful, easy to manipulate Tactical Plotting Aids (TPAs) to operators in CIC.</p> <p>GW038: These funds are required to provide an Electronic Chart Display Information System (ECDIS) compliant navigation system - Voyage Management System (VMS) which is part of the BPS radar.</p> <p>GW039: These funds are required for a software upgrade to support the Geospatial Positioning System (GPS) which gives the ability to fix platform position in space in time.</p>		

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<b>BUDGET ITEM JUSTIFICATION SHEET</b> <b>P-40 CONTINUATION</b>		DATE: <b>FEBRUARY 2004</b>
APPROPRIATION/BUDGET ACTIVITY		
<b>OTHER PROCUREMENT, NAVY/BA-1 Ships Support Equipment</b>		<b>A1GW</b>
<p>GW044: Forward Looking Fathometer - These funds are required to provide Anti-Swimmer Detection and Navigation support for procurement and installation of 54 Forward Looking Fathometer's in surface ships to replace the UQN-4.</p> <p>GW830: These funds are required for production engineering for the AN/WSN-7/7A, AN/WSN-7B, CDU (Control Display Unit), ECDU (Enhanced Control Display Unit), and AIAS hardware/software procurements and system test and integration, Doppler Sonar Velocity Log, and Voyage Management Systems.</p> <p>GWINS: These funds are required to install the following Navigation System Procurements onboard surface combatants, submarine platforms, and aircraft carriers: AN/WSN-7/7A and AN/WSN-7B, DSVL, ECDIS/VMS, FLF, and associated system peripherals.</p>		

WEAPONS SYSTEM COST ANALYSIS														
P-5														
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE/SUBHEAD											
Other Procurement, Navy			Other Navigation Equipment BLI: 067000 SBHD: A1GW											
BA-1 Ships Support Equipment			DATE: FEBRUARY 2004											
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS											
			FY 2003			FY 2004			FY 2005					
			Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<b><u>SURFACE SHIPS - N76</u></b>													
GW006	AN/WSN-2/5 MAINT COMPONENTS				0			80					185	
GW013	CONVENTIONAL NAVIGATION FC KITS				295			93					590	
GW029	INERTIAL NAV SYS ECP/FC KITS				0			0					515	
GW030	MILITARY SEALIFT COMMAND*				0			0					0	
GW035	RING LASER GYRO NAV (AN/WSN-7)	A			0			0					0	
	AN/WSN-7 PERIPHERALS				1730			780					0	
GW036	RING LASER GYROCOMPASS (AN/WSN-7B)				0			0					0	
	AN/WSN-7B PERIPHERALS				0			0					0	
GW037	COMPUTER AIDED DEADRECKONING TRACER*				0			0					0	
GW830	PROD ENGINEERING				105			80					115	
	<b>N76 Subtotal</b>				<b>2,130</b>			<b>1,033</b>					<b>1,405</b>	
	<b><u>SUBMARINES - N77</u></b>													
GW006	AN/WSN-2 MAINT COMPONENTS				186			916					392	
GW013	CONVENTIONAL NAVIGATION FC KITS				290			325					350	
GW029	INERTIAL NAV SYS ECP/FC KITS				632			1,901					1,372	
GW035	RING LASER GYRO NAV (AN/WSN-7A)	A	2	928	1,856	0	0	0	1	970			970	
	AN/WSN-7A PERIPHERALS				3,730			0					1,453	
GW036	RING LASER GYROCOMPASS (AN/WSN-7B)				0			0					0	
	AN/WSN-7B PERIPHERALS				0			0					0	
GW038	VOYAGE MANAGEMENT SYSTEMS				0	2	750	1,500	1	765			765	
GW039	GEOSPATIAL				0			848					1,763	
GW830	PROD ENGINEERING				460			439					450	
	<b>N77 Subtotal</b>				<b>7,154</b>			<b>5,929</b>					<b>7,515</b>	

WEAPONS SYSTEM COST ANALYSIS														
P-5														
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE/SUBHEAD											
<b>Other Procurement, Navy</b>			<b>Other Navigation Equipment BLI: 067000 SBHD: A1GW</b>											
<b>BA-1 Ships Support Equipment</b>			DATE: <b>FEBRUARY 2004</b>											
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS											
			FY 2003			FY 2004			FY 2005					
			Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
	<b><u>AIRCRAFT CARRIERS - N78</u></b>													
GW029	CVNS/WSN-7 ECP/FC KITS				340			327			1,517			
GW035	RING LASER GYRO NAV (AN/WSN-7)	A			0			0			0			
	AN/WSN-7 PERIPHERALS				0			0			0			
GW036	RING LASER GYROCOMPASS (AN/WSN-7B)				0			0			0			
	AN/WSN-7B PERIPHERALS				0			0			0			
GW830	PROD ENGINEERING				216			110			200			
	<b>N78 SUB-TOTAL</b>				<b>556</b>			<b>437</b>			<b>1,717</b>			
	<b>TOTAL - PROCUREMENT</b>				<b>9,840</b>			<b>7,399</b>			<b>10,637</b>			
	<b><u>INSTALLATION</u></b>													
GWINS	N75 INSTALLATION OF EQUIPMENT				0			0			0			
	N76 INSTALLATION OF EQUIPMENT				9,853			4,360			1,418			
	N77 INSTALLATION OF EQUIPMENT				4,165			3,236			4,125			
	N78 INSTALLATION OF EQUIPMENT				1,171			0			0			
	<b>TOTAL - INSTALLATION</b>				<b>15,189</b>			<b>7,596</b>			<b>5,543</b>			
					<b>25,029</b>			<b>14,995</b>			<b>16,180</b>			

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE			
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE				SUBHEAD	
Other Procurement, Navy					Other Navigation BLI: 067000				A1GW	
BA-1 Ships Support Equipment										
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<b>FY2003</b> <u>N77</u> GW035 AN/WSN-7A	2	928	NAVSEA WNY WASH DC	3/02 Option 1 *	FFP	Sperry Marine, Charlottesville VA	1/03	12/03	YES	
<b>FY2004</b> <u>N77</u> GW038 Voyage Mgmt Systems	2	750	NAVSEA WNY WASH DC	10/03	FFP	Sperry Marine, Charlottesville VA	4/04	10/05	YES	
<b>FY2005</b> <u>N77</u> GW035 AN/WSN-7A	1	970	NAVSEA WNY WASH DC	11/03	FFP	Sperry Marine, Charlottesville VA	10/04	10/05	YES	
GW038 Voyage Mgmt Systems	1	765	NAVSEA WNY WASH DC	5/04	FFP	Sperry Marine, Charlottesville VA	1/05	7/06	YES	

GW035 - AN/WSN-7 unit costs vary for Surface ships, Submarines, and Carriers due to differences in configurations. Variances due to combat system interfaces as required by Surface combatants, additional circuit cards necessary for aircraft alignment on board Carriers and IMU cabinetry differences as required on board Submarines.

\*FY03 AN/WSN-7A (Option I) is exercised under existing contract awarded 8/02

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P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: AN/WSN-1, 3,5 and CVNS TYPE MODIFICATION: AN/WSN-7/7A MODIFICATION TITLE: NAVIGATION SYS PROCUREMENT: GW035

DESCRIPTION/JUSTIFICATION:

The AN/WSN-7/7A Ring Laser Gyro Navigator (RLGN) replaces existing AN/WSN-1,3, 5 inertial navigation systems currently installed in various surface and sub-surface combatants. The AN/WSN-7/7A provides commonality and corrects existing inadequacies identified in these systems in the areas of maintainability, performance, environmental effects, reliability and ownership costs. The AN/WSN-7/7A is a passive shipboard navigation system intended to be operable worldwide without the need for external position reference information over the course of its fourteen day reset interval.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FULL RATE PRODUCTION

	Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		TC		TOTAL		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																					
<i>RDT&amp;E</i>		9.0																			9.0
<i>PROCUREMENT</i>																					
INSTALLATION KITS																					0.0
INSTALLATION KITS - UNIT COST																					0.0
INSTALLATION KITS NONRECURRING																					0.0
EQUIPMENT	130	106.8			2	1.8	0	0.0	1	1.0	1	1.0	0	0.0	0	0.0	0	0.0		134	110.6
EQUIPMENT NONRECURRING																					0.0
ENGINEERING CHANGE ORDERS																					0.0
DATA																					0.0
TRAINING EQUIPMENT																					0.0
SUPPORT EQUIPMENT																					0.0
OTHER																					0.0
OTHER																					0.0
OTHER																					0.0
INTERIM CONTRACTOR S																					0.0
INSTALL COST	114	62.7			9	8.4	3	2.3	6	4.7	1	0.8	1	0.8						134	79.7
TOTAL PROCUREMENT		169.5				10.2		2.3		5.7		1.8		0.8		0.0		0.0		0.0	190.3

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P3A **INDIVIDUAL MODIFICATION**

MODELS OF SYSTEM AFFECTED: MK-19, AN/WSN-2 TYPE MODIFICATION: AN/WSN-7B MODIFICATION TITLE: NAVIGATION SYS PROCUREMENT: GW036

DESCRIPTION/JUSTIFICATION:

The AN/WSN-7B Ring Laser Gyrocompass (RLG) replaces the AN/WSN-2. The AN/WSN-7B provides commonality and corrects existing inadequacies identified in these systems in the areas of maintainability, performance, environmental effects, reliability and ownership costs. The AN/WSN-7B has a 24 hour reset value.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	<u>Prior</u>		<u>FY 2003</u>		<u>FY 2004</u>		<u>FY 2005</u>		<u>FY 2006</u>		<u>FY 2007</u>		<u>FY 2008</u>		<u>FY 2009</u>		<u>TC</u>		<u>TOTAL</u>		
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	
<u>FINANCIAL PLAN (IN MILLIONS)</u>																					
<i>RDT&amp;E</i>																					0.0
<u>PROCUREMENT</u>																					
INSTALLATION KITS																					0.0
INSTALLATION KITS - UNIT COST																					0.0
INSTALLATION KITS NONRECURRING																					0.0
EQUIPMENT	51	16.5		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	51	16.5
EQUIPMENT NONRECURRING																					0.0
ENGINEERING CHANGE ORDERS																					0.0
DATA																					0.0
TRAINING EQUIPMENT																					0.0
SUPPORT EQUIPMENT																					0.0
OTHER																					0.0
OTHER																					0.0
OTHER																					0.0
INTERIM CONTRACTOR SUF																					0.0
INSTALL COST	17	5.3		19	6.8	13	5.3	2	1.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	51	18.4
TOTAL PROCUREMENT		21.8			6.8		5.3		1.0		0.0		0.0		0.0				0.0		34.9

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P3A (Continued) **INDIVIDUAL MODIFICATION (Continued)**

MODELS OF SYSTEMS AFFECTED: MK-19, AN/WSN-2 MODIFICATION TITLE: RLG (AN/WSN-7B) GW036

INSTALLATION INFORMATION:

METHOD OF IMPLEMENTATION: AIT

ADMINISTRATIVE LEADTIME: 6 months PRODUCTION LEADTIME: 12 months

CONTRACT DATES: FY 2003: 00/00 FY 2004: 00/00 FY 2005: 00/00

DELIVERY DATE: FY 2003: 00/00 FY 2004: 00/00 FY 2005: 00/00

(\$ in Millions)

Cost:	Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		To Complete		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
PRIOR YEARS	17	5.3	19	6.8	13	5.3	2	1.0											51	18.4
FY 2003 EQUIPMENT																			0	0.0
FY 2004 EQUIPMENT																			0	0.0
FY 2005 EQUIPMENT																			0	0.0
FY 2006 EQUIPMENT																			0	0.0
FY 2007 EQUIPMENT																			0	0.0
FY 2008 EQUIPMENT																			0	0.0
FY 2009 EQUIPMENT																			0	0.0
TO COMPLETE																			0	0.0
																			51	18.4

INSTALLATION SCHEDULE:

	Prior	FY 2003				FY 2004				FY 2005				FY 2006				FY 2007				FY 2008				FY 2009				IC	TOTAL
		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		
In	17	6	3	4	6	5	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		51
Out	17	6	3	4	6	5	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		51

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TIME PHASED REQUIREMENTS SCHEDULE (SUPPLEMENT SHEET-INSTALLATION DATA) P-23A								P-1 ITEM NOMENCLATURE/PROJECT UNIT  AN/WSN-77A OTHER NAVIGATION EQUIPMENT - GW035				DATE  FEBRUARY 2004			
APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy</b> <b>BA-1: SHIPS SUPPORT EQUIPMENT</b>								Installing Agent  N/A							
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR	
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY
FY 2003								FY 2004							
0		6		0		3		2		1		0		0	
		CV 67	1			LHA 1	1	SSN 21	1	LHD 3	1				
		LHA 3	1			SSN 701	1	SSN 761	1						
		SSN 757	1			LHD 2	1								
		DDG 52	1												
		DDG 58	1												
		SSN 760	1												
FY 2005															
6		0		0		0									
LHD 6	1														
SSN 22	1														
SSN 720	1														
SSN 752	1														
SSN 764	1														
SSN 769	1														

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TIME PHASED REQUIREMENTS SCHEDULE (SUPPLEMENT SHEET-INSTALLATION DATA) P-23A								P-1 ITEM NOMENCLATURE/PROJECT UNIT <b>AN/WSN-7B OTHER NAVIGATION EQUIPMENT - GW036</b>								DATE <b>FEBRUARY 2004</b>	
APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy BA-1: SHIPS SUPPORT EQUIPMENT</b>								Installing Agent <b>N/A</b>									
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR			
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY		
FY 2003								FY 2004									
6		3		4		6		5		3		3		2			
SSN 688	1	FFG 38	1	FFG 46	1	LPD 9	1	FFG 29	1	AS 39	1	SSN 751	1	FFG 55	1		
SSN 706	1	FFG 40	1	FFG 48	1	LPD 14	1	FFG 49	1	LPD 7	1	SSN 755	1	FFG 58	1		
AS 40	1	FFG 43	1	FFG 51	1	FFG 53	1	FFG 54	1	LPD 13	1	LPD 8	1				
FFG 8	1			FFG 52	1	FFG 59	1	SSN 21	1								
FFG 28	1					FFG 60	1	LPD 15	1								
FFG 32	1					FFG 61	1										
FY 2005																	
1		1		0		0											
SSN 22	1	FFG 50	1														

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APPROPRIATION/BUDGET ACTIVITY <b>Other Procurement, Navy</b> <b>BA-1: SHIPS SUPPORT EQUIPMENT</b>								Installing Agent											
1ST QTR		2ND QTR		3RD QTR		4TH QTR		1ST QTR		2ND QTR		3RD QTR		4TH QTR					
E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY	E.I./L	QTY				
FY 2006								FY 2007											
								0		0		0		0					
FY 2008								FY 2009											
0								0											

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