

CLASSIFICATION:

**UNCLASSIFIED**

<b>BUDGET ITEM JUSTIFICATION SHEET</b>							DATE:				
<b>P-40</b>							<b>February 2004</b>				
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY</b>							P-1 ITEM NOMENCLATURE <b>COMMAND AND CONTROL SWITCHBOARDS 81GE BLI: 092500</b>				
Program Element for Code B Items:							Other Related Program Elements				
	FY 2002 and Prior	ID Code	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total
QUANTITY											
COST (In Millions)	<b>\$44.2</b>	A	<b>\$7.6</b>	<b>\$4.1</b>	<b>\$3.8</b>	<b>\$3.9</b>	<b>\$3.9</b>	<b>\$4.0</b>	<b>\$4.0</b>		<b>\$31.3</b>
SPARES COST (In Millions)											<b>\$0.0</b>
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>											
<p>The switchboard program provides mission critical switching capability required to link shipboard combat equipment including weapons, launchers, sensors, computers and navigation equipment. In essence, switchboards serve as the central connection point for most elements of combat and weapon systems, interior communications, data transfer, and command and control systems. They are designed to accommodate either analog or digital interfaces or a combination of both. In total, this budget item supports approximately 200 ships and 1,000 pieces of equipment throughout the acquisition life cycle.</p> <p>Functions include: data routing; action cutout; test and operating mode selection (including casualty back-up modes); power monitoring and control; circuit protection; peripheral equipment isolation; and signal processing, frequency conversion amplification and switching. In summary, the primary purpose is to provide systems intra and interface compatibility.</p> <p>Changes in other elements of the combat and IC systems will frequently mandate either conjunctive modification to switchboards via ordnance alteration/field change or partial or complete replacement of existing switchboards. Typical switchboard mods include hardware/field change kits, ORDALT instructions, technical manual updates and revisions to other supporting documentation. Such changes are usually required subsequent to the initial installation, either in the same or later ship overhauls or availability. New Switchboards are normally installed during a regular overhaul by a shipyard.</p> <p>Command and control switchboards are currently installed on and are required for almost all surface combatants and amphibious warfare ships. Individual switchboard unit cost varies from ship to ship, depending upon size, complexity, and whether analog or digital interfaces or some combination thereof are utilized. Modifications to existing switchboards via ORDALTs or Field Changes are quantified by kits or change packages rather than individual units. Switchboard hardware is normally procured by the Invitation for Bids (IFB) process, from manufacturers on Qualified Products List (QPL)-17000. There are currently six companies listed on QPL-17000. All contracts awarded are competitive, fixed price.</p>											

P-1 SHOPPING LIST

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<b>BUDGET ITEM JUSTIFICATION SHEET P-40 CONTINUATION</b>		DATE: <b>February 2004</b>	
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY</b>		P-1 ITEM NOMENCLATURE <b>COMMAND AND CONTROL SWITCHBOARDS 81GE</b>	
<b>BA-1 SHIPS SUPPORT EQUIPMENT</b>		<b>BLI: 092500</b>	
<p>PUC GE003 - Combat Systems &amp; Interior Communication Switchboard Design, TM &amp; MODs: This line covers the costs to modify an existing or prepare a new design drawing, spec packages, technical manuals, allowance parts lists, allowance equipment lists, etc. to implement the switching scheme necessary for a ship's switchboard to properly integrate all elements of the Combat System and Interior Communication SWBDs. The design is then used to procure hardware modification kits (i.e., ORDALTs, Field Changes, etc.). Life extension modifications, as well as, design engineering and kit development for unauthorized/undocumented modifications to switchboard equipment will be covered under this line and will follow the criteria mentioned above to produce drawings and design packages necessary to document the change.</p> <p>PUC GE099 - Interior Communication (IC) Switchboards: This program supports future procurements of auxillary boards and/or additional IC sections to support future Combat System Navigation and Communication requirements.</p> <p>PUC GE900 - Shipboard Air Traffic Control Communications (SATCC) AN/SSC-12: Supports material procurement of engineering solutions to provide reliable, on-demand voice communication switching capability to safely control high-tempo flight operations on large deck platforms. This effort provides common integrated voice terminals for Air Traffic Control (ATC), Landing Signal Officer (LSO) and Primary Platforms and provides digital technology to interface with Digital Swtich Voice System (DSVS) / Integrated Voice Network (IVN). SATCC replaces obsolete equipment (OJ-314) on CV/CVN.</p> <p>PUC GEINS - Installation funding identified supports installation of ORDALTs/enhancements/upgrades for command and control switchboards and new switchboards installed via ship alterations (SHIPALTs). This program also supports installation of engineering solutions developed as part of the LHA Mid-life maintenance, and Command and Control Ships Integrated Voice Network, upgraded programs. This is accomplished by integrating with IT-21 Network Architect; post Y2K features and system upgrades are possible due to COTS application.</p>			

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WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System				DATE: February 2004			
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-1 Ships Support Equipment						ID Code A		P-1 ITEM NOMENCLATURE/SUBHEAD Command and Control Switchboards LI: 092500 81GE					
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS										
			FY 2002 and Prior	FY 2003		FY 2004			FY 2005				
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
	<b><u>N76</u></b>												
GE003	Combat Systems & Interior Communication Switchboard Design, TM & MODs	A	33,300			3,699			4,071			3,768	
GE099	IC Switchboards	A				0			0			0	
	<b>N76 Subtotal</b>		<b>33,300</b>			<b>3,699</b>			<b>4,071</b>			<b>3,768</b>	
	<b><u>N78</u></b>												
GE900	SATCC	A	7,575	2	1,307	2,614			0			0	
	<b>N78 Subtotal</b>		<b>7,575</b>			<b>2,614</b>			<b>0</b>			<b>0</b>	
GEINS	Installation N78		2,803			1,319			0			0	
GEINS	Installation N78 (NON FMP)		490			0			0			0	
	<b>Install Subtotal</b>		<b>3,293</b>			<b>1,319</b>			<b>0</b>			<b>0</b>	
	<b>GRAND TOTAL</b>		<b>44,168</b>			<b>7,632</b>			<b>4,071</b>			<b>3,768</b>	

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<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b>					Weapon System			A. DATE <b>February 2004</b>			
<b>B. APPROPRIATION/BUDGET ACTIVITY</b> <b>Other Procurement, Navy</b> <b>OPN BA-1: SHIPS SUPPORT EQUIPMENT</b>					<b>C. P-1 ITEM NOMENCLATURE</b> <b>COMMAND AND CONTROL SWITCHBOARDS</b>					<b>SUBHEAD</b> <b>81GE</b>	
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	
<u><b>FY 2003</b></u> GE900 SATCC	2	1,307	SSC DET NORFOLK	6/97	FFP	LITTON DATA SYSTEMS GAITHERSBURG, MD	11/02	5/03	YES		
D. REMARKS											

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P3A **INDIVIDUAL MODIFICATION** Feb-04  
 MODELS OF SYSTEM AFFECTED: SATCC FOR CV/CVNS TYPE MODIFICATION: ECP 1392 MODIFICATION TITLE: GE900

DESCRIPTION/JUSTIFICATION:

SHIPBOARD AIR TRAFFIC CONTROL COMMUNICATIONS (SATCC) FOR LARGE DECK PLATFORMS

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

	FY 2002 & Prior		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY		TC		TOTAL			
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$		
<u>FINANCIAL PLAN (IN MILLIONS)</u>																								
<u>RDT&amp;E</u>																						0	0.0	
<u>PROCUREMENT</u>																								
INSTALLATION KITS																						0	0.0	
INSTALLATION KITS - UNIT COST																						0	0.0	
INSTALLATION KITS NONRECURRING																						0	0.0	
EQUIPMENT	6	6233.0	2	2614.0																		8	8847.0	
EQUIPMENT NONRECURRING																						0	0.0	
ENGINEERING CHANGE ORDERS		1342.0		0.0																		0	1342.0	
DATA																						0	0.0	
TRAINING EQUIPMENT																						0	0.0	
SUPPORT EQUIPMENT																						0	0.0	
OTHER																						0	0.0	
OTHER																						0	0.0	
OTHER																						0	0.0	
INTERIM CONTRACTOR SUPPORT																						0	0.0	
INSTALL COST	*6	3293.0	2	1319.0		0.0																8	4612.0	
TOTAL PROCUREMENT	6	10868.0	2	3933.0		0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8	14801.0

\*Trainer unit installed with Non-FMP install funds (BLI 092506)-490K  
 ITEM NO. 8

