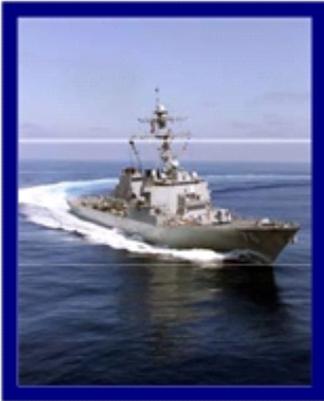


Southeast Regional Maintenance Center



Product Families

Capabilities
Manual

20 JUNE 2016

Code 900 Capabilities Manual Change Page

910 – Weapons handling equipment capabilities has increase to also test MK85 and MK143 MOD 0 slings.

920 – None

930 –

931- Repair/Replace/Test/ Inspect Fairbank Morse Fuel Injectors.

932- Repair GTG turbine hot section.

958- Conduct Field Balancing for electrical motors.

940 – None

950 – None

960 – None

970 – None

Southeast Regional Maintenance Center

Production Department Code 900

Department Head C900

Office : (904) 270-5126 ext 3133
Cell Phone - (904) 838-0130

Repair Officer

Office: (904) 270-5126 ext 3315
Cell Phone - (904) 535-4754

Product Families Officers (PFO)

Services PF C910

Office: (904) 270-5126 ext: 3343

Hull PF C920

Office: (904) 270-5126 ext: 3566

Engine PF C930

Office: (904) 270-5126 ext :3356

Machine PF C940

Office: (904) 270-5126 ext: 3348

Combat Systems PF C950

Office: (904) 270-5126 ext: 5856

Production Control PF C960

Office: (904) 270-5126 ext: 3352

Diving PF C970

Office: (904) 270-5126 ext : 3076

SHIPBOARD MAINTENANCE ACTION FORM (2-KILO)

THE 4790/2K DOCUMENTS A DEFERRED MAINTENANCE ACTION. **WITHOUT IT, WORK WILL NOT BE ENTERED IN THE CURRENT SHIP'S MAINTENANCE PROJECT (CSMP).** ALL DECISIONS ABOUT WHERE AND WHEN TO PLACE THE JOB AT A MAINTENANCE ACTIVITY ARE BASED ON THE 2K.

CLARITY, ACCURACY, AND COMPLETENESS ARE ESSENTIAL.

ADD ALL INFORMATION YOU BELIEVE HELPFUL TO PLAN OR EXECUTE THE JOB IN BLOCK 35 OR ON A 4790/2L.

A Ship's Maintenance Action Form (SMAF) is submitted to document jobs for your CSMP. When filled out properly this form will determine how quickly the work can be placed at a maintenance activity and how easily it can be planned and executed. It may be filled out by hand. The form is submitted through your chain of command to ensure accuracy and completeness.

This section of the SERMC Capabilities and Assessments Manual discusses proper documentation of your work. It contains some tips on accuracy and details required to interpret the request. The reference used in preparing this section is the 3-M Manual, OPNAV 4790.4(series) and the sample SMAF, below.

Use the tips as guidance when completing a SMAF. There are always exceptions to the rules but, in general, proper documentation guarantees the job will reach a successful conclusion. As you go through the steps of filling out an effective SMAF, ask yourself two simple questions:

What information would someone outside my work center need to check out the job on the ship and plan it for a maintenance activity to execute?

Did I provide all this information?

NOTE: Additional required shop-specific information may be needed. Refer to the individual shop sections for requirements. We will be working with Sections I, II, IV, & V of the SMAF.

Section I – IDENTIFICATION

Blocks 1-3 these blocks form the Job Control Number (JCN). From day one the job will always be identified by this combination.

Block 4 is the Allowance Parts List (APL) or Allowance Equipment List (AEL) number. It is critical that this be accurate so the correct repair parts can be ordered. The APL number should be taken from the COSAL or SCLISIS (itemized parts list for component to be repaired) held on the ship and must identify the specific item requiring action. Unless the component and system are one and the same, this number must be for a component of the system, not for the system itself. Compare nameplate information with the ship's records.

Blocks A & B identifies the ship's name and hull type/number.

SHIPBOARD MAINTENANCE ACTION FORM (2-KILO)

Block 5 is the equipment noun name. Electronic equipment with A/N designators will use the A/N identifiers vice noun name (A/N SQR-5 for example).

Blocks 6-9 are for diagnostic data analysis gathering. The blocks' choices of contents are listed in the 3-M Manual, pages B-20-21. Select the choice that best fits the circumstances for each.

Block 13 should list exact serial or identifier of item. For example, use B54545 (the serial number of equipment) or FM 3-151-2 (the valve number).

Block 14 is the Equipment Identification Code (EIC), an alphanumeric identifier of the component, equipment, subsystem or system for which the maintenance is being reported. EICs are found in the EIC manual.

Block 15 is the safety hazard identification. Enter an "X" or the appropriate code located in the 3-M Manual, page B-22. All jobs identified as a safety hazard must include a review by the ship's safety officer in command routing.

Block 16 is the exact location of the component identified by deck, frame, or compartment number. Fantail or open bridge is acceptable. This is a must have!

Block 17 is the Julian date when the malfunction was discovered.

Section II - DEFERRAL ACTION:

Block 25 is the total number of man-hours expended by all personnel up to the time of deferral. It includes one hour for documentation purposes.

Block 26 is the Julian date the job was deferred (written).

Block 27 is an estimate of how many ship's force man-hours are needed to complete the job.

Block 28 must be the most accurate Julian date on the document. This tells the chain of command and the maintenance activity how much time they have to complete the job. Much time is spent between brokers and ship personnel negotiating a valid deadline date because unrealistic dates are initially provided. This is time the job could be progressing through channels on the way to the shop. Make it as accurate as possible.

SHIPBOARD MAINTENANCE ACTION FORM (2-KILO)

Section III – REMARKS DESCRIPTION

Block 35 is the heart of the document and is in two parts: the first states in detail what is wrong with the component and, if known, what caused the failure. The second part details what must be done to correct the problem. Separate the two statements with “XXX.” This two-part description applies to all 2Ks. If a 2L is used to illustrate some aspect of the job, mention it in this block and make sure it is available to the maintenance activity when requested. Also state if ship’s force personnel will deliver anything to the maintenance activity. If the job is written to document a casualty report (CASREP), include the CASREP date-time group.

Everything up to this point has been generic. Other mandatory information is included in the individual shop sections. Planners who use your 2K to ship-check the job developed these requirements. Choose the heading and requirements that fit your job and use it to guide **Block 35**.

Block 37 is a condensed description of the problem stated in Block 35. This one line problem statement will appear on management reports. Be brief but accurate.

Block 38 is ideally the person filling out the 2K or an immediate supervisor knowledgeable in the specifics of the 2K.

Block 39 is the rate of first contact/maintenance person who is familiar with the scope of requested work.

Block 40 is a second contact or supervisor. This person must be familiar with the scope of the requested work.

Block 41 Choose and enter the appropriate priority code. (1 - mandatory; 2 - essential; 3 - highly desirable; 4 - desirable) based on latest TYCOM guidance.

Block 42 Select and enter the appropriate type availability code. (1 - depot; 2 - IMA; 3 - TYCOM; 4 - S/F)

Section V – SUPPLEMENTAL INFORMATION

Block 47 is the place to list technical manuals, blueprints, Electronic Information Bulletins (EIBs), or other documents that may be useful to the activity providing assistance. They should be listed by title/number and indicate under “on board” if they are available on board or not. Ensure the document matches any completed machinery alterations (MACHALT) or other changes to the equipment.

NOTE: The importance of the need for accuracy and completeness of the completed SMAF cannot be over-emphasized. It should mean the same to anyone who reads it. Readiness, time, and money are casualties of a poorly written job. If you follow the guidelines listed success is guaranteed.

Additional work center-specific information may be needed. Refer to the individual work center sections for requirements.

CODE 910 – SERVICES PRODUCT FAMILY

CODE 911 – WEIGHT TEST AND RIGGING

CODE 912 – CORROSION CONTROL

CODE 926 – RIB REPAIR

WEIGHT TEST AND RIGGING SHOP

WORK CENTER # - 911

STANDARD SERVICES

	SERVICES	TRAINING	MANUFACTURE	WEIGHT TEST
WEIGHT TEST AND RIGGING SHOP - BASIC FUNCTIONS				
WEIGHT TEST AND RIGGING SERVICES				
Conduct visual inspections	x	x		
Conduct weight test (OHE and WHE)	x	x		
Provided rigging support	x			
Manufacture Weight Test Tags	x			
WEIGHT TEST ITEMS				
Accommodation Ladders				x
Antenna Lifting Strong backs				x
Small Boat Slings				x
Portable Chain Falls & Hoists				x
Crescent Davits				x
Vest Davit				x
Deck Edge Safety Nets				x
Elevators (Assist)				x
Synthetic Lifelines			x	x
Kevlar Lifelines			x	x
J-Bar Davits				x
Leadsman Platforms				x
Lifting Cables & Pendants			x	x
Over-the-Side Handling Boom System				x
Ordnance Handling Equipment (OHE)				x
Platforms				x
Shipboard Installed Chain Falls & Hoists				x
Slings				x
Stanchions				x
Trolleys & Trolley Rails				x
Vertical Ladders				x
Vertical Launch System (VLS) Handling Equipment				x
Weapons Handling Equipment				x

Note:

1. All rigging support required 72 HRS advanced notice.
2. 911 does not conduct any personnel lifting.
3. 911 does not provide scaffolding for ships force.
4. Rigging through Ellison doors is not permitted by SERMC unless a waiver is signed by an E-7 or above from ship's force and documented in the package as so.
5. Minimum rigging requirements is 150 lbs.

PAINT & BLAST
WORK CENTER # - 912

STANDARD SERVICES

Corrosion Control-Basic Functions (See note 1) (See note 4)	Ship Check	Interior	Exterior	Metal ID Tag	Ship To Shop	Training
Clean & Prepare Component Surface	(See note 2) (See note 3)			(See note 6)	(See note 5)	
Burn-off Operations(Prior to blast ops)				X	X	X
Anchor Tooth Blasting				X	X	
Strip Abrasive Blasting				X	X	
Protective Coatings Application						
> Electrostatic Powder Coating 009-32						
> Paint Application						
Doors (Excludes Joiner or Non- Watertight doors)	X	X	X	X	X	X
Hatches	X	X	X	X	X	X
Scuttles	X	X	X	X	X	X
Stanchions	X	X	X	X	X	X
Hand Wheels (Steam Valves)	X	X	X	X	X	X
Sunshields (With NO Visible Damage)	X	X	X	X	X	X
RSL Lockers	X	X	X	X	X	X
Hand Rails	X	X	X	X	X	X
Hose Reels	X	X	X	X	X	X
P-100 Covers	X	X	X	X	X	X
J-Bar Davits	X		X	X	X	X
Davit Covers	X		X	X	X	X
Net Frames (blast and paint only no repairs)	X		X	X	X	
Various Covers	X	X	X	X	X	X
Brackets	X	X	X	X	X	X
Debarkation Doors	X	X	X	X	X	X
Coupling Covers	X	X	X	X	X	X
Deck Plates (blast only)	X	X		X	X	X
Life Vest Lockers	X		X	X	X	X
Turtle Backs	X		X	X	X	X
Various Cages	X	X	X	X	X	X
Vent Screens	X	X	X	X	X	X
Turn Buckles	X		X	X	X	X
Chain Pipe Covers	X		X	X	X	X
Hawse Pipe Covers	X		X	X	X	X
Chock Covers	X		X	X	X	X
Tripod (.50 CAL)	X		X	X	X	X
Life Rails (Excluding GRP)	X		X	X	X	X
Harpoon Clamps	X		X	X	X	X
Fuel Receivers Covers	X		X	X	X	X

Notes:

- 1) SERMC CODE 960 (PLANNING) will conduct a ship check of each item requested for Corrosion Control. Shop representatives will escort the ship checker to the items that need to be preserved. Items that require repair will be identified during the ship check and alternative recommendations will be provided. The ship check will also identify the degree of disassembly required for successful corrosion control during the ship check.
- 2) Items will only be accepted for **corrosion protection and not beautification**, i.e. lockers, mess deck chairs, table stands from mess decks, parking signs, fire extinguisher brackets and chains (All including anchor chains). Color must be identified during ship check or will result in **default color of haze gray**.
- 3) Size/Weight Constraints: Less than 10 feet in length and weight of 300lbs or less. Powder coat approximately 4FT X 6FT and weight of 300lbs or less. Items must have holes or attachments for hanging.
- 4) Restrictions: Engineering deck plate, plastic and rubber surfaces, weapons handling equipment that is subject to weight test cannot be blasted and painted. Glass, small or light weight or thin metal hand wheels, deck wrenches, accommodation ladder, joiner or non-watertight doors will not be accepted.
- 5) All PCMS, Caulking and glue are required to be removed prior to delivery of equipment
- 6) When submitting multiple items under one JSN, all items under that JSN must be receiving, the same processes and delivered at the same time.

A metal ID tag will be attached to each item with the following information(example):

Ship's Name (DIXIE), Item Description (WTD), Work Center (EA02), Metal Tag Number (# 001, matching the ship checker manifest list), which process (BL: Blast, PC: Powder Coat, HG: Color HAZE GRAY) and number of pieces 003

[ON WTD'S THE TAC NUMBER WILL BE ON TAG AS WELL]

METAL ID TAG EXAMPLE

DIXIE
HOSE REEL
EA02 # 001
FJ/HG
003

RIB REPAIR

WORK CENTER # - 926

STANDARD SERVICES

RIB Repair Shop- Basic Functions	Services	Repair	Training
RIB Services			
Maintain RIB Loaner Pool	X		
Conduct Hull and Structural Surveys	X		
Conduct RIB Maintenance Training			X
Provide Transportation and Stowage Services	X		
Trouble Shooting Assistance With RIB	X		
Pre-deployment Inspections	X		
RIB Repairs			
Repair and Install Sponson	X	X	X
Replace Nonskid		X	X
Replace Electronic Equipment (VHF Radio, GPS and Whelan Unit)		X	X
Inspect and Repair Auxiliary Electrical Equipment		X	X
Inspect and Repair Steering System		X	X
Conduct Fiberglass Repairs		X	X
Conduct Preservation		X	X
Small Boat Engine and Propulsion System Repairs			
Conduct Engine Tune Up		X	X
Inspect and Repair Shafts and Propellers		X	X
Inspect and Repair Diesel Engine		X	X
Inspect and Repair Diesel Cooling System		X	X
Inspect and Repair Shafts and Propellers		X	X

Notes:

A: 2 KILO REQUIREMENTS

- 1: THE BOAT REPAIR FACILITY REQUIRES ONE JOB PER CRAFT; IDENTIFY THE WORK AS HULL, MECHANICAL, OR ELECTRICAL.
- 2: IDENTIFY THE EXTENT OF EACH TYPE OF WORK
- 3: JOB SHOULD INCLUDE HULL NUMBER FOR TRACKING PURPOSES IN BLOCK 35 OF THE 2K.
- 4: DETAIL ALL KNOWN MECHANICAL PROBLEMS AND ELECTRICAL PROBLEMS.
- 5: LOANER RIBS WILL BE ISSUED IAW WFMN 1.

EXAMPLE OF BLOCK 35 FOR ROUTINE WORK:

REQUEST SERMC BOAT REPAIR ASSESS AND REPAIR HULL, MECHANICAL AND ELECTRICAL SYSTEMS ON 7-METER RIB, HULL # 7M0000X. ENGINE HAS FAULTY WATER PUMP AND REQUIRES COMPLETE OVERHAUL. ELECTRICAL SYSTEM REQUIRES MINOR GROOM AND IDENTIFICATION OF CHARGING SYSTEM PROBLEM. HULL REQUIRES COMPLETE PRESERVATION AND PAINT. SHIP'S FORCE UNABLE TO IDENTIFY SOURCE OF SLOW LEAK IN SPONSON XXX CONDUCT ASSESSMENT AND/OR OVERHAUL. INSTALL SECURITY PACKAGE ALT 7MRB002C.
LOUD GRINDING NOISE IN THE OUT DRIVE UNIT OF RIB HULL #7M0000X XXX REPAIR OR REPLACE OUT DRIVE AND COMPONENTS.

***NOTE:**

- 1: ALL BOATS WILL BE ASSESSED FOR TOUCH-UP OR FULL PAINT AS NEEDED AFTER REPAIR.
- 2: PAINTING IS CONDUCTED BY SHOP 923.
- 3: WE REQUIRE REMOVAL OF SLINGS, CO2 BOTTLES, LIFE PRESERVERS, FLOATATION DEVICES, TOOL BAGS, MEDICAL KITS, BATTLE LANTERNS, MOORING LINES, ANCHORS, SAR EQUIPMENT, AND ANY OTHER SHIPS FORCE GEAR PRIOR TO DELIVERY OF CRAFT.
- 4: DD 1149 WILL BE UTILIZED FOR TEMPORARY CUSTODY TRANSFER. E-7 OR ABOVE REQUIRED FOR SIGNATURE.
- 5: WHEN SUBMITTING JOB IDENTIFY ANY KNOWN MECHANICAL PROBLEMS REQUIRING ATTENTION.
- 6: IN THE EVENT ENGINE BECOMES SALT WATER CONTAMINATED (FLOODING) SHIP'S FORCE MUST REFER TO NSTM 233 CHAPTER 233-6.17-18 (TREATMENT AFTER IMMERSION IN SEAWATER) AND FOLLOW PROCEDURE IN ORDER TO MINIMIZE ENGINE DAMAGE. IT IS IMPERATIVE TO FLUSH ENGINE WITHIN 24 HOURS.
- 7: WHEN DELIVERING THE RHIB, SHIPS FORCE PERSONNEL ARE TO ENSURE THE SECURITY ARCH, EMERGENCY TILLER, MOBI, AND GPS ARE ONBOARD FOR INSPECTION AND REPAIR.

B: ADDITIONAL INFORMATION

- 1: LOANER RIB IS AVAILABLE ON A CASE-BY-CASE BASIS TO SUPPORT SHIPS UNDER WAY AND TRAINING REQUIREMENTS IAW WFMN 1.
 - 2: WHEN DELIVERING RIB IT IS REQUIRED THAT SHIPS FORCE REPRESENTATIVE IS PRESENT TO ANSWER QUESTIONS AND PROVIDE A P.O.C. (E-7 OR ABOVE)
 - 3: BOAT REPAIR FACILITY WILL CONDUCT A PRE-DEPLOYMENT INSPECTION A MINIMUM OF 30 DAYS PRIOR TO DEPLOYMENT BUT WILL NOT CONDUCT GROOMS (TUNE-UP, OIL AND FILTER CHANGE).
- NOTE: ACTUAL SCOPE OF WORK AND COMPLETION DATES WILL DEPEND ON FINAL ASSESSMENT. ANY CHANGES WILL BE DISCUSSED AT THE WORK DEFINITION CONFERENCE (WDC).

C: SHOP LIMITATIONS

- 1: NO TURBOCHARGER, MARINE GEAR/TRANSMISSION OR FUEL INJECTION PUMP OVERHAUL CAPABILITY
- 2: NO OUT DRIVE OVERHAUL CAPABILITY (REMOVE AND REPLACE ONLY) REQUIRES A 2 MONTH REQUISITION LEAD TIME
- 3: SHOP IS NOT CAPABLE OF REPAIRING ELECTRONIC EQUIPMENT SUCH AS VHF RADIOS, GPS, AND DEPTH SOUNDER UNITS

CODE 920 – CORROSION AND HULL PRODUCT FAMILY

CODE 922 - WATERTIGHT DOOR AND CLOSURE

CODE 924 – PIPE

CODE 925 – WELD / BRAZE

CODE 928 – SCBA SERVICES

WATERTIGHT DOOR AND CLOSURE SHOP

WORK CENTER # - 922

STANDARD SERVICES

WATERTIGHT CLOSURES SHOP - BASIC FUNCTIONS	SERVICES	TRAINING	REPAIRS	OVERHAUL
DOOR SERVICES				
Conduct structural surveys of closure	x			
Conduct watertight door training	x	x		
Conduct basic PMS training with DCPOs	x	x		
WATER TIGHT CLOSURES REPAIRS				
Weld repair doors (ship to shop)			x	
Manufacture hinges for ship's force			x	
Doors (All Decks)			x	x
Hatches (All Decks)			x	x
Scuttles (All Decks)			x	x
Conduct repairs to Ellison doors			x	x
Repair deck drains (unless hot work is required)			x	
Fire zone doors			x	
Conduct preservation on closures			x	x

SHOP LIMITATIONS:.

- Can't replace the framing on board ship.
- Some closures have special weld requirements and are required to be ship checked prior to work induction.
- Counter balance and ballistic doors are not repaired at SERMC.

SHIP'S FORCE REQUIREMENTS:

- Removal of all PCMS.
- Removal of label plates and ensure ship to shop tag is installed

WELD/BRAZE SHOP

WORK CENTER # - 925

STANDARD SERVICES

	SERVICES	TRAINING	REPAIRS
WELD/BRAZE SHOP - BASIC FUNCTIONS			
WELD/BRAZE SERVICES			
Gas Metal Arc (MIG) Welding (Greater Than 3/16 In) Alumn.	x	x	
Gas Tungsten Arc (TIG) Welding	x	x	
Shielded Metal Arc (SMA) Welding(Greater Than 3/16 In)	x	x	
Portable MIG Welding (Non Ferrous) Alumn. Shipcheck dependent	x	x	
Portable SMA Welding (Ferrous/Non Ferrous). Shipcheck dependent	x	x	
Portable TIG Welding (Ferrous/Non Ferrous). Shipcheck dependent	x	x	
Weld / Braze qualification program	x	x	
METAL FABRICATION AND REPAIRS			
Shear and form metal	x		x
Bending various metal	x		x
Notching, rolling, punching various metal	x		x
Sheetmetal fabrication (limited capability)	x		x
Pipe brazing and manufacturing	x		x

SCBA SERVICES

WORK CENTER # - 928

STANDARD SERVICES

SCBA SHOP- BASIC FUNCTIONS	Inspect	Test	Repair	Train
PMS MIP 5519/016				
PMS CHECK 5519/016 M1-R INSPECT, TEST AND CLEAN BREATHING APPARATUS	×	×		×
PMS CHECK 5519/016 M-2 INSPECT AIR CYLINDER PRESSURE	×			×
PMS CHECK 5519/016 S-1 REVIEW HYDROSTATIC DATE AND EXPIRATION DATE	×			×
PMS CHECK 5519/016 36M-1 PERFORM SCBA FUNCTIONAL FLOW TEST	×			×
PMS CHECK 5519/016 R-2 VISUALLY INSPECT AND REFILL AIR CYLINDER	×			×
PMS CHECK 5519/016 U-1 PREPARE AIR CYLINDER FOR HYDROSTATIC TEST	×			×
CONDUCT HYDROSTATIC TESTING OF SCBA CYLINDERS	×	×		
CONDUCT MINOR EPOXY RESIN REPAIRS TO CYLINDER GEL COATING IAW CGA PAMPHLET C-6.1	×	×	×	
INSPECT, REPAIR AND REAPLACE CYLINDER VALVE SEATS IAW MFG. TECH MAN	×	×	×	
INSPECT, TEST, REPAIR REDUCER IAW MFG. TECH MAN	×	×	×	
INSPECT, TEST, REPAIR REGULATOR IAW MFG. TECH MAN	×	×	×	
PERFORM SCBA PACK AND CYLINDER INSPECTION AND REPAIR IAW ASA CHECK SHEET	×			×

CODE 930 – ENGINE PRODUCT FAMILY

CODE 931 – DIESEL ENGINE SERVICES

CODE 932 – GAS TURBINE REPAIR

CODE 946 – FLEX HOSE SERVICES

CODE 947 – HEAT EXCHANGER SERVICES

CODE 958 – OUTSIDE ELECTRICAL

CODE 958A – MOTOR REPAIR SERVICES

DIESEL ENGINE SERVICES

WORK CENTER # - 931

STANDARD SERVICES

DIESEL ENGINE - BASIC FUNCTIONS	Overhaul	Repair/ Replace	Testing	Inspections
Inspect and Repair Lube Oil Systems				
Inspect Lube Oil Systems (General)				X
Lube Oil Systems.		X		
Set Simple Regulating/Relief Valves			X	
Set backlash and Change New/Rebuilt Attached pumps		X		
Test and Repair:				
Governors		X	X	X
Fuel Injectors (Pop Test)	X (1)	X (1,2)	X (1,2)	X (1,
Repair or Replacet Engine Components				
CYLINDER HEAD		X(1)		X
CYLINDER LINER		X(1)		X
PEDESTAL BEARING		X(2)		X
VIBRATION DAMPER		X		X
Miscellaneous:				
P-100 Engine	X	X	X	X
EBAC Air Compressors/Engine	X	X	X	X
Emergency Power Portable Generators	X	X	X	X

NOTES: (X# denotes only specific engine currently capable due to special tools availability, and/or personnel skillset presently onboard. No # denoted means Code 900 should be able to accomplish engines 1-5 in specific area listed)

1. COLT PIELSTIC PC2.5 (LSD), PC2.5 STC(LPD)
2. FAIRBANKS MORSE 8 1/8
3. ALCO
4. CATERPILLARS
5. PAXMAN

* Case-by-cases repair request for following engine being developed: FAIRBANKS MORSE 8 1/8
ALCO, CATERPILLARS AND PAXMAN.

* Internal engine inspections are in conjunction with Code 200 DEIs.

GAS TURBINE REPAIR

WORK CENTER # - 932

STANDARD SERVICES

GAS TURBINE- BASIC FUNCTIONS	Inspect/ Assist	Remove	Repair	Replace	Training
Rolls Royce/Allison 501 K17/K34 GTG					
Engine Assembly		X		X	X
Engine Compressor Front/Rear Bearing Seal Assembly		X		X	X
Exhaust Flexible Joint Assembly (AT Module)		X		X	X
Gear High & Low Speed Bearings		X		X	X
Open, Close Upper Compressor Casing					
Power Take-Off (PTO) Shaft Assembly		X		X	X
Replace Turbine Combustion Liner		X		X	X
Turbine Hot Sections		X	X	X	X
9130/ 9140 GTG RIMSS Engine		X		X	X
9130/ 9140 GTG Engine Shock mounts		X		X	X
G/E LM2500 GTM	Inspect/ Assist	Remove	Repair	Replace	Training
Compressor VSV's Inner/Outer Bushing		X		X	X
Compressor Rotor Blades, Stage 3-16		X		X	X
C-Sump Lube Oil Nozzle		X		X	X
Exhaust Flexible Joint Assembly		X	X	X	X
1ST Stage Power Turbine Nozzle Segments		X	X	X	X
Gas Generator Assembly		X		X	X
High Pressure Turbine Rotor Assembly		X		X	X

GAS TURBINE REPAIR

WORK CENTER # - 932

STANDARD SERVICES

G/E LM2500 GTM (CON'T)	Inspect/ Assist	Remove	Repair	Replace	Training
High Pressure Turbine Stage 1 Nozzle Assembly		X		X	X
High Speed Coupling Shafts		X		X	X
HP Turbine Rotor 1st Stage Blades		X		X	X
Number 3/5/6 Bearing & Stationary Seal Assembly		X		X	X
Power Turbine Assembly		X		X	X
Power Turbine Stator Cases		X		X	X
Separate Gas Generator at Power Turbine				X	X
Separate the Gas Gen AT TMF/CRF Flanges				X	X
Stage 1 Compressor Rotor Blade		X	X	X	X
Stage 2 Compressor Rotor Blade		X	X	X	X
Power Turbine Module Boot		X		X	X
Provide Inspection/Assistance					
Conduct Power Turbine Inspection(IAW GT Bulletin)	X				X
Conduct Turbine Mid-Frame Anti Rotation Inspection	X				X
Miscellaneous Services					
Balance & Trim G/E LM2500 (MGTI)					
Training Equipment Available (Static Displays)					
Allison 501-K17 Gas Turbine Engine					X
G/E First Stage Blade/Rotor Assembly					X
G/E LM2500 Gas Generator Assembly					X
G/E LM2500 Power Turbine Assembly					X

FLEX HOSE SERVICES

WORK CENTER # - 946

STANDARD SERVICES

FLEX HOSE - BASIC FUNCTIONS	Cut & Skive	Fabricate	Flush	Hydrostatic Test
Special Purpose Hoses				
Diesel Engine Hoses	×	×	×	×
Gas Turbine (LM 2500) Hoses	×	×	×	×
Internally Reinforced Non-Collapsible Hoses	×	×	×	×
Magazine Sprinkler Hoses (PRP)	×	×	×	×
Steel Braid Hoses From -4 Thru -24	×	×	×	×
Rubber Hoses From -4 Thru -128	×	×	×	×
Hoses Up To 3 In (Machine)	×	×	×	×
Hydrostatic Test (In Shop)				
Flex Hoses Up To 10,000 PSI	×	×	×	×
Torpedo Tube Air Flasks To 2600 IAW PMS			×	×
High Pressure Air Compressor Coolers (air side)			×	×
Flush - Hot Water (In Shop)				
Flexible Hoses (130 To 180 Degree F.)			×	×
Crimp Flexible Hoses				
Hoses Up To 2 In (Machine)		×	×	×

Notes:

- 1) All hoses are ship to shop.
- 2) All hoses must be free of hazardous liquids prior to delivery to the shop.
- 3) All hoses needs to have proper FME prior to delivery to the shop.
- 4) All hoses must have ship to shop tags attached prior to delivery to the shop
- 5) All hoses that fails hydro or visual inspection will not be return to the ship and will be destroyed.

Updated: 1 JUL 2015

HEAT EXCHANGER SERVICES

WORK CENTER # - 947

STANDARD SERVICES

HEAT EXCHANGER- BASIC FUNCTIONS	Cleaning	Repair	Testing	
Perform Miscellaneous Repairs on Heat Exchangers				
Coolers-Air	X (1,2)			
Coolers- Oil	X (1,2)			
Coolers- Water	X (1,2)			
Lube Oil Heaters	X (1,2)			
Replace Cooler Zincs		X		
Provide Cleaning Services				
Flushes- Water	X			
Lancing- Air	X			
Lancing- Water (In Shop)	X			
Lancing- Water (On Ship, Pumping Services Provided by Maint. Team)	X			
Troubleshoot, Repair and Test:				
Plug Miscellaneous Heat Exchanger Tubes		X	X	
Apply Polymeric Coating		X	X	
Hydrostatic Testing				
Pressure Vessel and Components			X	

Notes:

- 1) Ship Force is responsible for removing all interferences prior to cooler removal and cleaning onboard.
- 2) Ship Force is responsible for coordinating pumping services prior to cooler cleaning onboard.

OUTSIDE ELECTRICAL
WORK CENTER # - 958

***** Aloft work to be coordinated by Ship Force and Ships Superintendent
 (Aloft chit, man lift, scaffolding and/ or crane)*****

STANDARD SERVICES- Applies to all applicable classes of US Navy surface ship

ELECTRICAL- BASIC FUNCTIONS	Inspect	Fabricate	Repair	Replace (Note 3)	Install	Test	Training	Ship to Shop	Ship-Board
Cable Repairs									
Cable Banding Material	X	X	X	X	X		X		X
Cabling Fabrication(up to THOF-400) see note 1	X	X	X	X			X		X
Cable tag fabrication		X						X	
Cable Jacket	X		X	X			X		
Cableway Inspection and Reporting	Inspect								Ship- Board
Cableway Assessment	X								X
A/C Equip, Controllers& Contactors **see Note 2	Inspect	Trouble shoot	Repair	Replace	Install	Test	Training	Ship to shop	Ship- Board
	X		X		X	X	X	X	X
Valve Actuators	Inspect	Trouble shoot	Repair	Replace	Set	Test	Training	Ship to shop	Ship- Board
Remote electrical (Nu Torque, Limit torque, and Morpac)	X		X		X	X	X	X	X
Other Electrical Equipment	Inspect	Trouble Shoot	Repair	Replace(Note 3)	Set	Test	Training	Ship to Shop	Ship-Board
Battery Charging Stations (Yellow Gear, Forklifts, Etc.)	X		X		X	X	X	X	X
Bus Transfer Devices (ABT & MBT)	X		X				X	X	X
Heating Elements (incl. Dehydrators)	X		X				X		X
Indication Circuits and Lights	X		X				X		X
Lights: Landing, Navigation, and Signaling (except where imbedded in deck)	X		X				X		X
Windshield wipers	X		X				X	X	
Solenoids	X		X	X			X		X
Switches and Interlocks	X		X				X		X
Visual Signaling Systems	X		X				X		X

MOTOR REPAIR SERVICES

WORK CENTER # - 958A

STANDARD SERVICES

MOTOR REPAIR - BASIC FUNCTIONS	Cleaning Preserve Drying	Testing	Assembly And Disassembly	Inspections
Prepare Motor for Reconditioning				
Abrasive Blasting and Preparation	X			
Drying	X			
Removal of Motor From Ship				
Disconnect motor leads and inspect controller for overload relay specification			X	
Check motor controller cable for insulation resistance and short		X		
Re-Assemble End Bells, Stators, Rotors				
Re-Assemble AC Motors			X	
Inspect, Repair and Test AC Motors				
Receipt Inspection				X
Electrical Test		X		
Disassemble Motor			X	
Fresh Water Wash Motor Stator			X	
Dry Motor Stator			X	
Install New Bearings			X	
Test Motors up to 150 HP (In Shop)		X		
Balance and Spin Test Motors Up to 250 lbs		X		
Field balancing		X		
Test Run AC Motors (In Shop Unloaded)				
Motors Up To 150 HP		X		

NOTES:

THE FOLLOWING ARE SHOP RESTRICTIONS. THESE REQUIREMENTS MUST BE COORDINATED THROUGH THE RESPECTIVE SHIPSUP:

1. SHOP **958A** DOES NOT ROUTE TEMPORARY POWER TO ANY EQUIPMENT.
2. SHOP **958A** DOES NOT RECEIVE MOTORS THAT REQUIRE OUTSIDE CONTRATOR TO REWIND MOTOR.

CODE 940 – MACHINE PRODUCT FAMILY

CODE 941 – INSIDE MACHINE

CODE 942 – OUTSIDE MACHINE

CODE 943 – PUMP OVHL

CODE 944 – VALVE REPAIR

CODE 945 – AIR CONDITIONING AND REFRIGERATION REPAIR

CODE 948 – KEY / LOCK AND ENGRAVING

INSIDE MACHINE SERVICES

WORK CENTER # - 941

PRODUCT FAMILY WORK CENTER PHONE NUMBER (904) 270-5126 ext: 3104

STANDARD SERVICE

Inside Machine - Basic Functions	Inspect	Manufacture	Repair	Machine	Training
Pump/Motor Repair:					
Couplings (Straight & Tapered)	X		X	X	X
Mechanical Seal Stationary Housing	X				X
Wearing Rings	X	X		X	X
Motor Endbell Repair	X		X	X	X
Shaft Sleeves	X	X		X	X
Shaft (Pump & Motor)	X	X	X	X	X
Bearing Housings			X	X	X
Valve Repair:					
Flange Layout/Bolt Hole Transfer	X	X	X	X	X
Leslie Top Cap	X		X	X	X
Valve Stems	X	X	X	X	X
Valve Seat	X		X	X	X
Valve Disk	X		X	X	X
Phonographic Finishes	X			X	X
Gears Manufacture & Repair:					
Bevel Gears	X		X	X	X
External Splines	X		X	X	X
Spur Gears	X	X	X	X	X
Stub Tooth Gears	X	X	X	X	X
Heat Treatment of Metals (upto 8" x 8" x 12"):					
Anneal Hardened Steel	X	X	X	X	X
Case Harden Metals	X	X	X	X	X
Harden Ferrous Metals	X	X	X	X	X
Heat Treat Non-Ferrous Metals	X	X	X	X	X
Normalize Ferrous Metals	X	X	X	X	X
Temper Hardened Steel	X	X	X	X	X
Test Hardness of Metals	X				X
Cutting Tools Sharpening & Protection:					
Drill Bits	X			X	X
High Speed Steel Cutters	X			X	X
Machines:					
Drill Press					X
Radial Arm Drill Press					X
Lathe (Manual & CNC)					X
Milling Machine (Horizontal & Vertical) (Manual & CNC)					X
Grinding (Surface & Pedestal)					X
Vertical Turret Lathe					X
Band Saw (Horizontal & Vertical)					X
Hydraulic Press					X
Metal Disintegrator					X

OUTSIDE MACHINE SERVICES

WORK CENTER # - 942

PRODUCT FAMILY WORK CENTER PHONE NUMBER (904) 270-5126 ext: 3386

STANDARD SERVICE

Outside Machine - Basic Functions	Inspect	Install / Fit-up	Repair	Replace	Training
Seals & Sealing Surface:					
Line Shaft Bearing Seals	X	X		X	X
Thrust Bearing Seals	X	X		X	X
Shaft Bulkhead Seals (Crane)	X	X		X	X
Stein Seals	X	X		X	X
Tri-Seals	X	X		X	X
Labrynth Seals				X	
Resilient Mounts:					
Auxiliary Equipment Mounts	X	X		X	X
Sound Mounts	X	X		X	X
Portable Machining Operations:					
Threaded Hole (Keenserts & Helicoil)	X	X		X	X
Broken Bolt & Studs	X		X		X
Deck Equipment:					
Brake Drum & Cylinders	X	X	X	X	X
Retractable Chocks & Bits	X	X	X	X	X
Sliding Vertical Padeye	X	X	X	X	X
Winches	X	X	X	X	X
Mechanical Deck Equipment	X	X	X	X	X
Miscellaneous Equipment:					
Deck Drains	X	X	X	X	X
Mechanical Expansion Joints	X	X	X	X	X
Antenna Tilt Mechanisms	X	X	X	X	X
Reach Rod Assemblies	X	X	X	X	X
Valve Operator Assemblies (Teli-Flex, Uni-Flex)	X	X	X	X	X
Ship's Binocular Carriage	X	X	X	X	X
SQR-19 (Mechanical Components)	X	X	X	X	X
Reduction Gears	X	X	X	X	X
Gear Boxes	X	X	X	X	X
Hydraulic Ram	X	X	X	X	X
Lube Oil Purifier	X	X	X	X	X
Fuel Oil Purifier	X	X	X	X	X
SLAD (Mechanical Components)	X	X	X	X	X

PUMP SHOP SERVICES

WORK CENTER # - 943

PRODUCT FAMILY WORK CENTER PHONE NUMBER (904) 270-5126 ext: 3386

STANDARD SERVICE

Pump Shop - Basic Functions	Inspect	Repair	Overhaul	Training
Firemain	X	X	X	X
Sea Water Service	X	X	X	X
Chill Water	X	X	X	X
Lube Oil Service (Electric & Attached)	X	X	X	X
Lube Oil Transfer	X	X	X	X
Fuel Oil Service	X	X	X	X
Fuel Oil Transfer	X	X	X	X
Controllable Reversible Pitch (Electric & Attached)	X	X	X	X
Potable Water	X	X	X	X
Reverse Osmosis	X	X	X	X
Brine	X	X	X	X
Bromine	X	X	X	X
Feed (Steam Plants)	X	X	X	X
Condensate (Steam Plants)	X	X	X	X
Main Feed Booster (Steam Plants)	X	X	X	X
Aegis Cooling	X	X	X	X
Gas Turbine Generator Sea Water Cooling	X	X	X	X
Bilge	X	X	X	X
Oily Water Separator	X	X	X	X
Diesel Cooling	X	X	X	X
Distillate	X	X	X	X
Drain	X	X	X	X
Condensate	X	X	X	X

VALVE SHOP SERVICES

WORK CENTER # - 944

PRODUCT FAMILY WORK CENTER PHONE NUMBER (904) 270-5126 ext: 3107

STANDARD SERVICE

Valve Shop - Basic Functions	Remove / Install	Repair	Test (Note 1)	Set	Training
Butterfly:					
10" and Below (except Bleed Air & Ventilation valves)	X	Note 3	X	X	X
Swing Check:					
10" and Below	X	Note 3	X	X	X
Diaphragm Control Valves(CLAVAL/HYTROL):					
10" and Below (except Diaphragm Control Valve Controllers)	X	Note 3	X	X	X
Gate:					
10" and Below	X	Note 3	X	X	X
Globe:					
10" and Below	X	Note 3	X	X	X
Pneumatic Systems (except Nitrogen)					
Air Start Valves (only up to ambient temperature)	X	Note 3			X
Air Control Valves (only up to ambient temperature)	X	Note 3			X
High Pressure Air Valves	X	Note 3	X	X	X
Low Pressure Air Valves	X	Note 3	X	X	X
Reducing Valves & Manifolds	X	Note 3	X	X	X
Regulators	X	Note 3	X		X
Regulating Valves:					
Air	X	Note 3	X		X
Water	X	Note 3	X		X
Temperature (except testing of sensing element)		Note 3	Note 4	Note 4	X
Relief Valves:					
All (Note 2)	X	Note 3	X	X	X
Steam Kettle (electric only)	X	Note 3	X	X	X
Hot Water Heaters Safety (electric only)	X	Note 3	X	X	X
Fleet Valve Repair Assist:					
Facilities available to assist ship's force in the accomplishment of repairs, setting & testing up to 6000psig.					X
Assistance for repairs if relief valve testing fails.					X
Manifolds:					
All (except Hydraulic)	X	Note 3	X	X	X
Boiler Propulsion Services:					
Burner Barrel			X		X
DFT Spray Nozzle			X		X
Material Assessments:					
Valve					X

NOTES:

1. Leak test up to 6000psig (water) & 3500psig (air); Vacuum Breakers, Reducing Valves & Regulators (seat tightness only).
2. All systems except Hydraulic, Nuclear, Subsafe, O₂ & N₂.
3. Ship-to-Shop all valves weighing less than 150lbs; Cradle-to-Grave (R,R,R) for all valves weighing 150lbs or more, if at pier side NAVSTA Mayport (if at shipyards, ship & shipyard to make arrangements for removal, reinstallation & transportation).
4. Must be accomplished during normal operating conditions within the appropriate system in order to set high/low limits.

AIR CONDITIONING & REFRIGERATION SHOP SERVICES

WORK CENTER # - 945

PRODUCT FAMILY WORK CENTER PHONE NUMBER (904) 270-5126 ext: 3105

STANDARD SERVICE

A/C & R Shop - Basic Functions	Inspect	Install	Repair	Replace	Align / Test	Overhaul
A/C & R Systems:						
Centrifugal Compressor Mechanical Seal	X	X		X		
Reciprocating Compressor (York & Carrier)	X	X	X	X	X	X
Reciprocating Compressors Mechanical Seal	X	X		X		
Screw Type Compressors						
Discharge Valves	X	X	X	X		X
Suction Valves	X	X	X	X		
Mechanical Capacity Control Systems	X	X	X	X	X	
Thermostatic Expansion Valves	X		X		X	X
Evaporator Pressure Regulators	X		X		X	X
Henry Pack Less Valves	X		X		X	X
HP & LP Air Systems:						
HP Dehydrators (Freon Type or Desiccant)	X		X	X	X	X
LP Dehydrators (Freon Type or Desiccant)	X		X	X	X	X
HP Compressors						
Dresser-Rand HPAC Model 30NL30	X		X	X	X	X
Dresser-Rand HPAC Model 20NL-7 and 7E	X		X	X	X	X
Dresser-Rand HPAC Model 20NL11A thru 11G	X		X	X	X	X
Dresser-Rand HPAC Model 20NL12 and 12A	X		X	X	X	X
RIX HPAC Model 5R5 (air end only)	X		X	X	X	X
MP Compressors						
Sauer MPAC Model WP121L (LPD Only)						
LP Compressors						
Dresser-Rand LPAC NAXI 100-3 thru 4A/B (air end only)	X		X	X	X	X
RIX LPAC 2JS2B-150	X		X	X	X	X
RIX LPAC STAR 200	X		X	X	X	X
Hydraulic Systems:						
Actuators	X		X	X	X	X
Control Valves	X		X		X	X
Steering Gear Pumps	X		X	X	X	X
Weight Handling Systems (SOT III):						
Cargo Elevators	X				X	
Vertical Package Stores Conveyors	X				X	
Dumbwaiter	X				X	
Torpedo Strike Down and Lift System	X				X	
Weapons Elevators	X				X	
Boat Davits	X				X	
Material Assessments:						
Laundry & Galley	X		X	X	X	
Auxiliary	X		X	X	X	
Air	X		X	X	X	

KEY / LOCK & ENGRAVING SERVICES

WORK CENTER # - 948

PRODUCT FAMILY WORK CENTER PHONE NUMBER (904) 270-5126 ext: 3104

STANDARD SERVICE

Key/Lock & Engraving - Basic Functions	Pick	Re-Key / Change Combo	Install	Duplicate	Forceful Entry
Key & Lock:					
Doorknobs	X	X	X	X	X
Cam Locks	X	X	X	X	X
Best Locks	X	X	X	X	X
Interchangeable Core Locks	X	X	X	X	X
Padlocks	X			X	X
Flat Keys				X	
Sargent & Greenleaf (all models)		X	X		X
MAS Hamilton		X	X		X
Mosler 302 (Hand Change)		X	X		X
Mosler 402 (Key Change)		X	X		X
Simplex Pushbutton/Electronic Access Control		X	X		X
Mortise Cylinder			X		X
Rim Cylinder			X		X
Key-In-Knob			X		X
Fire Safes, Field Safes & File Cabinets		X	X		X
GSA Approved Vault Doors & Containers, Group 5 & 6		X	X		X
GSA Safe Re-Certification		X			
Lagard		X	X		
Engraving:		Laser (24" x 24" Max)	Rotary (18" x 18" Max)	Brady (8" x 10" Max)	
Plastic		X	X		
Brass		X	X		
Black Brass		X	X		
Aluminum		X	X		
Anodized Aluminum		X	X		
Stainless Steel		X	X		
Wood		X	X		
Vinyl					X

CODE 950 – COMBAT SYSTEMS PRODUCT FAMILY

CODE 951 – CIWS / 25MM

***CIWS GAHS**

***MK38 25MM CHAIN GUNS**

CODE 952 – ORDNANCE

***SURFACE VESSEL TORPEDO TUBES**

***VERTICAL LAUNCH SYSTEM**

CELL HATCH / DELUGE VALVE / DELUGE FLUSH/WATER TREATMENT

CODE 953 – 2M / GOLD DISK / FIBER

***MINIATURE/MICRO-MINIATURE (2M) MODULE TEST & REPAIR (MTR)**

***GOLD DISK DEVELOPMENT**

***FIBER OPTIC REPAIR**

CODE 954 – SRBOC REPAIR

CODE 957 – ANTENNA REPAIR

CLOSE-IN WEAPONS SYSTEM AND MK38 25MM

WORK CENTER # - 951

STANDARD SERVICES - Applies to all applicable classes of US Navy surface ships

Basic Functions	Inspect	Removal / Replace	Trouble shoot	Repair / Refurbish	Overhaul	Preserve / Paint	Test	Ship to Shop	Training
CODE 951 CIWS GAHS / 25MM CHAIN GUN									
CIWS GAHS Repair (See Note 1)	X	X	X	X	X	X	X	X	X
25MM CHAIN GUN MK-38 MOD 1 (See Note 2)		X		X	X	X	X	X	X
25MM CHAIN GUN MK-38 MOD 2 (M242 Cannon only)		X		X	X	X	X	X	X

NOTES:

Note 1. CIWS GAHS Repair: See SERMC Waterfront Maint. Note 12

Note 2. MK38 25MM Chain Gun Repair: See Waterfront Maint. Note 8,9

ORDNANCE REPAIR SVTT / VLS

WORK CENTER # - 952

STANDARD SERVICES - Applies to all applicable classes of US Navy surface ships

Basic Functions	Inspect	Removal / Replace	Trouble shoot	Repair / Refurbish	Overhaul	Preserve/P aint	Test	Ship to Shop	Training
CODE 952 ORDNANCE REPAIR									
SVTT REPAIR									
SVTT Breech Mechanism (see Note 3)	X			X	X	X	X	X	X
SVTT R.A.C. (see Note 3)		X		X	X	X	X		X
VERTICAL LAUNCH SYSTEM (VLS) Repair									
VLS CELL HATCHES (see Note 4)				X	X	X		X	
VLS DELUGE WATER TREATMENT (see Note 5)				X					
VLS DELUGE VALVE			X	X	X		X	X	

NOTES:

Note 3. SVTT Repair: See SERMC Waterfront Maint. Note 14

Note 4. VLS Cell Hatch Repair: See SERMC Waterfront Maint. Note 20

Note 5. VLS Deluge Valve OVHL; Flush/Water Treatment: See SERMC Waterfront Maint. Note 18

2M REPAIR

WORK CENTER # - 953

STANDARD SERVICES - Applies to all applicable classes of US Navy surface ships

Basic Functions	Inspect	Removal / Replace	Trouble shoot	Repair / Refurbish	Fabricate	Test	Ship to Shop	Full Service	Training
CODE 953 2M / GOLD DISK / FIBER REPAIR									
2M MTR Repair (see Note 6)	X		X	X		X	X		X
FIBER REPAIR	X	X	X	X	X	X	X	X	X

NOTES:

Note 6. Miniature/Micro-Miniature (2M) MTR Repair: See SERMC Waterfront Maint. Note 6.

SRBOC REPAIR

WORK CENTER # - 954

STANDARD SERVICES - Applies to all applicable classes of US Navy surface ships

Basic Functions	Removal / Replace	Repair / Refurbish	Overhaul	Preserve / Paint	Test	Ship to Shop	Training
CODE 954 SRBOC							
MK-137 MODS 1,2, AND 4 SRBOC LAUNCHER Repair (see Note 7)	X	X	X	X	X	X	X

NOTES:

Note 7. SRBOC Repair: See SERMC Waterfront Maint. Note 13

ANTENNA REPAIR
WORK CENTER # - 957

STANDARD SERVICES - Applies to all applicable classes of US Navy surface ships

Basic Functions	Trouble shoot	Repair / Refurbish	Overhaul	Fabricate	Preserve / Paint	Test	Ship to Shop	Training
CODE 957 ANTENNA REPAIR								
AS-2810/SRC, AS-1735/SRC, AS-2815/SSR1	X	X	X		X	X	X	
AS-1875/SRA, AS-3226/URC, NT-66095	X	X	X		X	X	X	
AS-177B/UPX, AS-4163/URC, AS-3077/SP	X	X	X		X	X	X	
AS-3078/SP, AS-3079/SP, AS-4293/SRC,	X	X	X		X	X	X	
AS-4489/SSQ, AS-2809/SRC, AS-2867/SSR	X	X	X		X	X	X	
(all see Note 8)								
WHIP ANTENNAS								
AS-2537, AS-3770, AS-3771	X	X	X		X	X	X	
AS-3772, AS-3773, AS-3371	X	X	X		X	X	X	
(all see Note 8)								
HF FANWIRES	X	X	X	X			X	X
(excl. LPD enclosed)								
ANTENNA COUPLER								
AN/URA-38 (See Note 8)	X	X	X		X	X	X	
CU-2475, CU-2544 (enclosure preservation only)					X		X	
ANTENNA AMPLIFIER								
AM-6534, AM-7317 (see Note 8)		X			X		X	

NOTES:

Note 8. Antenna Repair: See SERMC Waterfront Maint. Note 16.

CODE 970 – DIVERS PRODUCT FAMILY

CODE 970 – DIVING SERVICES

***STANDARD DIVING SERVICES**

***SUBMARINE DIVING SERVICES**

*** HYPERBARIC AND NON-DIVING SERVICES**

DIVING SERVICES

WORK CENTER # - 970

PRODUCT FAMILY MANAGER FPHONE NUMBER (904) 270-5125 ext: 3076 / 3077

STANDARD DIVING SERVICES

	INSPECTION/ PHOTOGRAPHY	INSTALL / REMOVE	SECURITY INSPECTIONS	POLISHING	REPLACEMENT / REPAIR	LIGHT RECOVERY	HUB SEAL REPAIR
PROPELLER / CPP	X	X ¹		X	X	X	X ¹
SALVAGE	X					X	
HULL	X		X		X		
ROPE GUARDS	X	X			X		
RODMETER / SEAVALVE	X	X			X		
ZINCS	X	X			X		
PRAIRIE AIR CHECK VALVE	X	X			X		
FLY-AWAY CAPABILITIES	X		X		X	X	X
COFFERDAM		X					
BODY RECOVERY						X	
ICCP	X	X			X		
SONAR DOME	X		X		X		

Note 1: NAVSEA Support

**SUBMARINE DIVING SERVICES - DIVING AUTHORIZED ONLY OUTSIDE RADIATION
EXCLUSION AREAS.**

	INSPECTION / PHOTOGRAPHY	INSTALL / REMOVE	SECURITY INSPECTION	POLISHING	REPLACEMENT / REPAIR
TORPEDO TUBE SHUTTER	X				
COFFERDAM		X			
HULL FITTINGS	X	X			X
MAIN BALLAST VENT VALVES	X	X			X
SONAR DOME	X				X
BALLAST TANKS	X				
HULL	X		X		
BLANK FLANGES		X			

HYPERBARIC AND NONDIVING SERVICES

	COORDINATION	INTERVIEW	PHYSICAL TRAINING	PRESSURE TESTS	TREATMENTS
HULL CLEANING	X				
SONAR OPERATIONS	X				
DIVER CANDIDATE TESTING		X	X	X	
SOUTHEAST REAGION BENDS WATCH					X
SONAR DOME DIVER QUALS				X	
HYPERBARIC OXYGEN					X