LET SERMC HELP

MAINTENANCE ASSIST TEAMS (MAT) CAN

FIND    FIX    DOCUMENT

MATS ARE RECOMMENDED FOR SHIPS PRIOR TO DEPLOYMENT AND INSURV
HOWEVER SERMC IS ALWAYS AVAILABLE TO CONDUCT MATS UPON REQUEST
BELOW IS A LIST OF AVAILABLE MATS AND WHAT THEY ENCOMPASS
FOR MORE INFORMATION ON MATS AND/OR SCHEDULING
PLEASE CONTACT
MAT COORDINATOR
PHONE: 270-5126 X 5856

MAT CONCEPT:
The purpose of a MAT is to provide a comprehensive material/maintenance review and
increase the overall level of readiness of the targeted systems. The objective is to ensure Ship's
Force understands and is capable of performing the required preventive and corrective level of
maintenance necessary to support equipment during sustained operations.

SERMC will:
- Review maintenance documentation with S/F for completeness and accuracy, including
  Preventive Maintenance Schedules (PMS) and software, Current Ship's Maintenance Project
  (CSMP) entries, material history, technical manuals, weight test data, etc. required to support
  the readiness of these systems.
- Work with S/F to accomplish all PMS MRCs covered by specifically requested MAT.
- Work with S/F to self-assess the material condition of critical systems and equipment covered
  under the specifically requested MAT.
- Repair deficiencies noted during the self-assessment and PMS phase; additional AWRs may
  be required if it is determined that further I-level or depot level repair is necessary.
- Provide system operator training for S/F personnel.

LISTED BELOW ARE THE PMS CHECKS CONDUCTED DURING THE ASSIST
### AMAT
1. Clean And Inspect Condenser Zinc Anodes.
2. Inspect Refrigerant System for Leaks Using Operating Charge.
3. Test Chill Water Expansion Tank Relief Valve.
5. Inspect Gravity Coils for Frost Buildup. Inspect Fan Coil Unit(s) for Frost or Ice Buildup.
6. Inspect Moisture Indicator(s).
7. Inspect Compressor Oil color and Level
10. Inspect Crushable Copper Stops. Inspect Steering Control Limit Stop Setting.
11. Inspect Anchor Windlass Mechanical Brake.
12. Inspect Anchor Windlass Electric Brake.
15. Perform Operational Test of Rudder Rates. Perform Operational Test of Sperry Unit Command Speeds.
17. Lubricate Steering Gear.
18. Lubricate Anchor Windlass.
19. Lubricate Capstan and Wildcat.
20. Inspect and Test Anchor Windlass.

### DMAT
- **Gearmatic Constant Tension Winch**
  1. Inspect Boat Davit and Boat Stowage Assembly
  2. Clean, inspect, Lubricate, and Preserve Boat Davit and Boat Stowage Assembly Inspect and Lubricate Proximity Switches
  3. Test Safety Devices
  4. Lubricate Boat Hoisting Hook Assembly
  5. Clean, Inspect, and Preserve Hydraulic Jacks
  6. Clean, Inspect, and Lubricate Wire Rope Fall
  7. Lubricate Boat Oil Level in Winch Gear Case
  8. Inspect Winch Hand Crank
  9. Clean and Inspect Controllers
  10. Inspect and Lubricate Exposed Hydraulic Valves
  11. Provide Hydraulic Fluid Sample for Physical Analysis
  12. Inspect Hydraulic Power Unit (HPU)
  13. Clean, Inspect, and Lubricate Sheaves
  14. Lubricate Motors installed with Open or Single Shielded Bearings
  15. Inspect Man Lines and Appendages
  16. Inspect Winch Gear Case Lubricating Oil Sample
  17. Clean, Inspect, and Preserve Boat Grips, Tie-downs, and Boat Sling

- **Vestdavit**
  18. Inspect, Lubricate and Preserve Boat Davit and Boat Stowage Assembly
  19. Test Operate Boat Davit
  20. Inspect Winch Gearcase Lubricating Oil Sample and Lubricating Oil Level in Winch Gearcase and Winch Brake
  21. Inspect Hydraulic Power Unit (HPU)
  22. Inspect Hydraulic Flexible Hoses
  23. Lubricate Boat Hoisting Hook Assembly
  24. Clean, Inspect, and Lubricate Wire Rope Fall
  25. Clean and Inspect Controllers. Clean and Inspect the Davit Control Console
  26. Provide Hydraulic Fluid Sample for Physical Analysis
  27. Clean, Inspect, and Lubricate Sheaves
  28. Clean, Inspect, and Preserve Boat Grips, Tie-downs, and Boat Sling

### VMAT
1. Verify Operation of Main and Secondary Drainage Educators.
2. Test Operation of Main Drainage System Manually Operated Valves (Local and Remote) including but not limited to Bulkhead Isolation and Drain Well Isolation.
3. Test Operation of Pneumatic Operator and Valve, Test Operation of Manually Operated Valves (Local and Remote).
4. Lift Relief Valve by Hand
5. Lift Relief Valve by Hand
6. Test Operation of Pneumatic and Manually Valves
7. Test Electrical Operator and Valve,
8. Inspect and Test Operation of Hydraulic Valve Operator and Manual Override
9. Inspect Valves and Operators

### WTDMAT
1. Inspect, clean and lubricate steel watertight/airtight doors (quick-Acting). Perform test procedure.
2. Inspect, clean, and lubricate steel watertight/airtight doors (individually dogged). Perform test procedure.
4. Inspect, clean and lubricate flush and RLP hatchways (individually dogged). Perform test procedure.
5. Replace watertight door gasket.
6. Inspect, clean MAFO watertight door and chalk test.
7. Test hatch and scuttle spring balanced mechanism.
8. Inspect and clean flush and RLP hatches and scuttles.
9. Inspect and test scuttle hold back devices.
10. Inspect and test door latches.
11. Inspect and lubricate raised steel watertight hatchways and scuttles (Quick-Acting). Perform test procedure.
12. Inspect and lubricate flush and ramped profile steel watertight hatchways and scuttles (Quick-Acting). Perform test procedure.
15. Replace Watertight Hatch/Scuttle Gasket; Preserve as necessary.

### ELMAT
1. inspect & lubricate darkened ship door switches.
2. Test Operation of ABT and MBT
3. Clean And Inspect Motor Controllers.
4. Install or Replace Vapor-Phase Corrosion Inhibitor (VCI). Only on Non-vented enclosures located in high humidity space. This includes fuse boxes, ABTs, power/lighting panels and motor controllers.
5. Clean and Inspect Power/Lighting Panels.
6. Install or Replace Vapor-Phase Corrosion Inhibitor (VCI). Only on Non-vented enclosures located in high humidity space. This includes fuse boxes, ABTs, power/lighting panels and motor controllers.
7. Clean and Inspect Fuse Panels.
8. Install or Replace Vapor-Phase Corrosion Inhibitor (VCI). Only on Non-vented enclosures located in high humidity space. This includes fuse boxes, ABTs, power/lighting panels and motor controllers.
LGMAT

1. Inspect all Galley and Laundry equipment.
2. Clean and inspect all hermetic reefer condensers.
3. Test and inspect all hermetic compressors.
4. Clean, inspect and lubricate under counter reefer hinges and latches.
5. Clean and inspect under counter reefer door gaskets.
6. Clean and inspect ice cream machine.
7. Clean and inspect ice machines.
8. Inspect all steam kettles.
9. Clean and inspect flat iron grills.
10. Clean, inspect, and lubricate food mixers.
11. Inspect galley ovens and latching assemblies.
12. Inspect Gaylord fusible links and soap dispensers.
13. Clean and inspect scullery dishwasher.
15. Lubricate and adjust laundry presses.
16. Inspect and fill air lubricators.
17. Clean and inspect washer extractor.
18. Clean, inspect and lubricate tumble drier.

GMAT

MK 15 CIWS G&AHS
1. Inspect gun and ammunition handling system units.
2. Clean and lubricate gun and ammunition handling system units.
3. Perform gun firing test (PSOT 14).
5. Remove, clean, inspect, lubricate and install gun and ammunition handling system units. Perform M61A1 20MM gun teardown and rebuild. Adjust last round switch.
6. Perform gun inspection criteria.

MK 38 Mod-1 25MM Chaingun
7. Perform operability test.
8. Clean, inspect and lubricate MK88 Mod 1 mount with TW-25B. Clean, inspect and lubricate M242 Cannon with TW-25B. Test Gun an annotate results of inspection in SW360-AA-MM0-010. Clean inspect and lubricate MK88 Mod-1 mount with MC1210.
9. Perform pre-fire test. Verify cut-out switch operation on FFG-7 class ships only.
10. Clean, preserve and weatherproof connectors.
11. Perform recoil inspection and piston indicator rod check.

RHBMAT

1. Clean, lubricate, and inspect boat seacock.
2. Replace fuel water separator element.
3. Clean and inspect hand operated bilge pump.
4. Clean and inspect stern drive anodes.
5. Clean and inspect sacrificial anodes.
6. Clean and inspect lines, hoses, tubing, vibration isolators and engine mounts.
7. Inspect exhaust system (as required).
8. Inspect and lubricate gimbal ring and transom assembly components.
9. Clean, inspect and lubricate control heads, control cables, trim position feedback cable, remote fuel shut off cable, extensions and linkages.
10. Clean and inspect boat hull and superstructure.
11. Inspect manual hydraulic steering system.
12. Flush Mercury Bravo II stern drive.
13. Replace seawater pump impeller (as required)
15. Lubricate drive shaft universal joints and spline shaft (as required).
16. Lubricate gimbal bearing and transom assembly.

AIRMAT

Low and Medium Air Pressure Systems
1. Inspect teflon, thermoplastic, and metal hoses, end fittings, and supports.
2. Inspect synthetic rubber flexible hoses, end fittings, and supports.
3. Inspect filter regulator lubricator.

High Pressure Air Systems
4. Test 5” / 54 or 5” / 62 gun gas ejection air reducing manifold.
5. Inspect teflon, thermoplastic, metal hoses, end fittings, and supports.
6. Inspect synthetic rubber flexible hoses, end fittings, and supports.
7. Inspect waterwash engine gas turbine (Bellmouth) and Centerbody (Bulletnose).
8. Inspect digital fuel control (DFC) components, variable stator vanes, and actuation system. (If Applicable)

GTMAT

1. Detergent Wash Gas Turbine Engine/Internal.
3. Inspect Gas Turbine Inlet Duct. (Bellmouth Spray Pattern)
4. Correct as many discrepancies on site as possible.
5. Generate a list of items daily that require intermediate level maintenance.
6. Inspect Gas Turbine Interior (Borescope Inspection)
7. Inspect Plenum Inlet Screen, Inlet Duct (Bellmouth) and Centerbody (Bulletnose).
8. Inspect Digital Fuel Control (DFC) Components, Variable Stator Vanes, and Actuation System. (If Applicable)
10. Waterwash Gas Turbine Engine.