

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
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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.
4. Inspect and Record A/C Plant Operating and Maintenance History. Inspect Material Condition of A/C Plant. Inspect Parasense Refrigerant Monitor Status.
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
8. Inspect Seawater Condenser. Replace Seawater Condenser Zinc Anodes.
9. Inspect and Record Refrigeration Plant Operating and Maintenance History. Inspect Material Condition of Refrigeration Plant. Inspect and record Refrigerant Monitor Configuration Status. Test Refrigeration Plant for Leaks.
10. Inspect Crushable Copper Stops. Inspect Steering Control Limit Stop Setting.
11. Inspect Anchor Windlass Mechanical Brake.
12. Inspect Anchor Windlass Electric Brake.
13. Check for Non-Condensable Gases in Condenser. Purge Non-Condensable Gases from Condenser.
14. Test Refrigeration system for Leaks Using Operating Charge.
15. Perform Operational Test of Rudder Rates. Perform Operational Test of Sperry Unit Command Speeds.
16. Test Operate Steering Hand Pumps.
17. Lubricate Steering Gear.
18. Lubricate Anchor Windlass.
19. Lubricate Capstan and Wildcat.
20. Inspect and Test Anchor Windlass.

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,
4. Test Operation of Manually Operated Valves (Local and Remote).
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
10. Clean Inspect Lubricate and Preserve Electric/ Hydraulic Motor Operator and Valve.
11. Clean Inspect Lubricate and Test Manually Operated Valves and Valve Remote Operating Gear.
12. 5210/016 Q-3 Test System Rubber Lined Butterfly Isolation Valves (MIL-V-22133) for Leak-By.
13. 5210/016 S-3 Test System High Performance Butterfly Isolation Valves (MIL-V-24624) for Leak-By.
14. 5210/016 A-1 Cycle Electric Motor Operated Valve Manual Override.

DMATGearmatic 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, Insect, and Preserve Hydraulic Jack
6. Clean, Inspect, and Lubricate Wire Rope Fall
7. Inspect Lubricating 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 Gripes, Tie-downs, and Boat Sling

Vestdavit

Inspect, Lubricate and Preserve Boat Davit and Boat Stowage Assembly

18. Inspect and Lubricate Exposed Hydraulic Valves
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 Gripes, Tiedowns, and Boat Sling

Replenishment-At-Sea Systems

29. Inspect Bulkhead Mounted Sliding Padeye Kingpost Assembly
30. Clean, Inspect, and Lubricate Bulkhead-Mounted Sliding Padeye; Inspect Oil Level in Bearing Housing
31. Clean, Inspect, and Lubricate Bulkhead-Mounted Sliding Padeye
32. Inspect Bulkhead-Mounted sliding Padeye Flexible Coupling; Torque Flange Bolts
33. Inspect Bulkhead-Mounted Sliding Padeye Electric Brake
34. Clean and Inspect Bulkhead-Mounted Sliding Padeye Controllers; Measure Insulation Resistance of Controller and Motor
35. lubricate Bulkhead-Mounted Sliding Padeye Motor Bearings
36. Inspect Bulkhead-Mounted Sliding Padeye Bonded / Ground Straps

Portable Davit

37. Clean, Inspect, and Preserve Portable Rotating Davit and Accessories

Rails, Stanchions, and Lifelines

38. Inspect Glass Reinforced Plastic (GRP) Lifelines

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.
3. Inspect, clean and lubricate raised steel watertight hatches (individually dogged). Perform test procedure.
4. Inspect, clean and lubricate flush and RLP hatches (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 hatches and scuttles (Quick-Acting). Perform test procedure.
12. Inspect and lubricate flush and ramped low profile steel watertight hatches and scuttles (quick-Acting). Perform test procedure.
13. Inspect and lubricate raised steel watertight hatches and scuttles (quick acting). Perform test procedures.
14. Inspect and lubricate raised steel watertight hatches (individually dogged). Perform test procedures.
15. Replace Watertight Hatch/Scuttle Gasket; Preserve as necessary.

ELMAT

1. Inspect & lubricate darken 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.

<p style="text-align: center;">LGMAT</p>	<p style="text-align: center;">RHIBMAT</p>	<p style="text-align: center;">GTMAT</p>
<p style="text-align: center;">GMAT</p> <p style="text-align: center;"><u>MK 15 CIWS G&AHS</u></p> <ol style="list-style-type: none"> 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). 4. Clean, inspect and lubricate breech bolts and removable tracks. Perform post maintenance checkout. 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. <p style="text-align: center;"><u>MK 38 Mod-1 25MM Chaingun</u></p> <ol style="list-style-type: none"> 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-MMO-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. 	<p style="text-align: center;">AIRMAT</p> <p><u>Low and Medium Air Pressure Systems</u></p> <ol style="list-style-type: none"> 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. <p><u>High Pressure Air Systems</u></p> <ol style="list-style-type: none"> 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. Test rix inter-stage membrane dehydrator (IMD) outlet dew point. 8. Align, inspect, and test high pressure air system. <p><u>Air Compressors</u></p> <ol style="list-style-type: none"> 9. Test / maintain HPAC closed loop coolant. 10. Clean or replace air intake filter element. 11. Low oil pressure shutdown test. 12. Lubricate compressor pump motor bearings. 13. Remove and install floating assembly for 4th and 5th stages. 	
<ol style="list-style-type: none"> 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. 14. Inspect garbage grinders. 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. 	<ol style="list-style-type: none"> 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) 14. Inspect engine belt. 15. Lubricate drive shaft universal joints and spline shaft (as required). 16. Lubricate gimbal bearing and transom assembly. 	<ol style="list-style-type: none"> 1. Detergent Wash Gas Turbine Engine/Internal. 2. Clean and Inspect Waterwash Module. Clean GTRB Waterwash "Y" Strainer. 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) 9. Detergent Wash Gas Turbine Engine/External. 10. Waterwash Gas Turbine Engine. 11. Inspect Gas Turbine Rear Mount for Settlement, Inspect Turbine Internal Parts, Turbine Outlet Temperature Thermocouples, and Cylinder Assembly, Turbine Exhaust, Inner Body.