

Assessments and Readiness

Epsilon Systems provides support to the U.S. Navy in a wide range of waterfront repair assessment, technical assistance, and training associated with the operation, installation, maintenance, repair and readiness of shipboard equipment and systems. As a prime contractor of assessment and readiness services to the Navy's Southwest Regional Maintenance Center since 2005, we have provided dedicated field technical support, enhanced availability planning, emergent systematic technical and repair assistance, automated maintenance techniques, documentation and procedures in accordance with defined Navy maintenance philosophies and systematic program management oversight. Epsilon Systems provides qualified personnel, tooling, equipment and the necessary facilities to perform troubleshooting and failure mode analysis, engineering, field engineering, technical support, fleet support, industrial support and installation services to support SWRMC's Production, Engineering, and Waterfront Operations Departments.

- Evaluation and assessment and maintenance of U.S. Navy shipboard systems, subsystems and equipment to determine performance, reliability and required repair actions:
 - Marine gas turbine electrical systems
 - Hydraulic systems
 - Air compressors
 - Oily water separators & pollution abatement equipment
 - Air conditioning and refrigeration systems
 - Electrical systems
 - Gaylord hood equipment
 - Firefighting equipment
 - Elevators, conveyors and dumbwaiters
 - Preservation
 - Antenna, EMI & IMI systems
 - IC systems
 - Communications
 - NTDS systems
 - Submarine combat systems



- IR/cableway inspections
- Tank inspections
- Corrosion (G1N6)/NACE/NBPI inspections
- U.S. Navy Regional Maintenance Center Shop support:
 - Weapons Shop
 - RSD Shop
 - Life Raft Shop
 - Antenna Shop
 - Corrosion Control Shop
 - Diesel Engine Shop
 - Flex Hose Shop
 - 2M Repair Shop
 - Machine Shop
 - Outside Electrical Shop
 - Communications
 - SCBA
 - Valve Shop
 - AC&R Shop
 - Air Compressor Shop
- Planning/logistics support:
 - Project management
 - Mechanical engineers
 - CAD drawing
 - Planners
 - AWP/ICMP
 - QA/NDT

Contact

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- Process Improvement (Lean-6 Sigma)
 - Expert Training and Implementation
 - Value Stream Analysis and Mapping
 - Kaizen Events with 30-60-90 day actions
 - Work Place Organization (5 S)
 - Work Flow & Cellular Realignment
 - Process Audits
 - Root Cause Analysis
 - Change Management
 - Mentoring and Development
 - Performance Based Logistics (PBL) Analysis and Implementation
- Program support for various programs and functional checks:
 - Total Ship's Readiness Assessments (TSRA)
 - Combat System Command, Control, Communications and Computer Readiness Assessments (C5RA)
 - Shipboard Habitability Assessment & Repair Program
 - Underway Material Inspections (UMI) and Final Contract Trials (FCT)
 - Board of Inspection and Survey (INSURV)
 - Power Assessment Repair and Training (PSART)
 - Diesel Engine Inspections (DEI)
 - Marine Gas Turbine Inspections (MGTI)
 - SMART Ship Technology, including:
 - Damage Control System (DCQ)
 - Machinery Control System (MCS)
 - Integrated Condition Assessment System (ICAS, SMART Ship, and ICAN)
 - Integrated Bridge System (IBS)
- Distance support from Subject Matter Experts to return systems and equipment to full operational readiness
 - Evaluation, assessment, maintenance, repair and integrated logistical support of various classes of U.S. Navy Rigid Hull Inflatable Boats (RHIBs), including 5-, 7-, 9-, 11-, and 13-Meter RHIBs:
 - Receiving RHIBs from ships entering CNO availability periods, conducting visual, functional and operational checks to assess the condition of each boat.
 - Performing authorized structural, hull, electrical and engine repairs to return each RHIB to a fully mission-ready condition.
 - Surveying RHIBs found to be beyond economical repair.
 - Maintaining a rotating pool of RHIB and tow/trailer assets in ready condition and providing replacement assets to ships suffering Ready Lifeboat asset casualties.
 - Providing on-the-job maintenance and operator training to military and government civilian personnel to assist them in effecting repairs when deployed overseas.
 - Evaluation, assessment, maintenance and repair of various classes of U.S. Navy Maritime Expeditionary Support Group Patrol Craft homeland harbor defense/security small craft/support vehicles. This support includes providing oversight-level management functions and engineering technical personnel support at the government boat maintenance facility for the continuous maintenance, repair, on-board maintenance training, material support services, correction of material condition discrepancies, modifications, upgrades, service life extension and replacement of installed small boat systems on various types of craft and associated equipment, including:
 - 34' SeaArk Patrol Boats
 - 32' Kingston Patrol Boats
 - 7- and 11-Meter Rib Boats
 - Personal watercraft ("Jet Skis") reconnaissance assets
 - Peterbilt and HMMV transportation support and tow vehicles
 - Various light- and medium-duty trucks (all makes)
 - Various classes of tow trailers
 - Various sizes of diesel-powered and electric forklifts, including 6K & 15K forklifts
 - Portable boat power generator equipment, including 15 & 30 KW generators