



Ship and Submarine – Modernization, Repair and Manufacturing

Core Capabilities

As a premier NAVSEA-certified Alteration Installation Team (AIT) provider to the U.S. Navy, Epsilon Systems routinely executes a wide array of ship alteration installations, AITs, repair, engineering technical services, and logistics support services. Our major customers include NAVSEA, NAVAIR, Regional Maintenance Centers, Military Sealift Command, the U.S. Coast Guard and MARAD customers.

As a prime contractor for the U.S. Navy, Epsilon Systems has established an exceptional record of performance to deliver services and products that meet or exceed all specifications – on time and on budget.

Relevant Certifications and Qualifications

- NAVSEA NOTE 5000 SUBSAFE Certified, on all classes of submarines
- Designated Overhaul Point (DOP) for Submarine Corporate Component Repair Program (CCRP)
- Master Ship Repair Agreement (MSRA) IAW to perform Complex Repair Work (Virginia Location)
- ISO 9001:2015-Compliant Quality Management System
- NAVSEA and ABS Certified Welders and NDT Personnel
- Certified Fiber Optic Technicians
- Level III NDT VT, PT, MT & UT Provider



Epsilon Systems' Portsmouth, Virginia location includes a gated facility with:

- A 10,000 sq. ft. secure fenced area
- A shop area with over 16,000 sq. ft. equipped with a 7.5-ton overhead gantry crane

Our 40,000-square foot production and office facility includes:

- 21,000 sq. ft. of training, conference, and office space between four addresses
- 19,000 sq. ft. of production and repair shop space including:
 - 9544 sq. ft. of open shop area
 - 936 sq. ft. tool room
 - 165 sq. ft. calibrated tool storage
 - 400 sq. ft. steel storage/staging area
 - 1,037 sq. ft. for controlled fiber optic/electrical assembly area
 - 1,920 sq. ft. GFM/GFE secure storage area

The large floor space can be easily configured for pre-fabrication and production mock-up support.

- Electronic shop equipped with electrical test and measuring equipment, electric repair equipment and training mock-ups
- Machine shop outfitted with inside machine equipment including lathes, milling machines, VTL and hydrostatic test stands.
- Hydraulic Power unit and test stand for vertical assembly and test of submarine masts

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Ship and Submarine Modernization and Repair

- Alteration Installation Team (AIT) Support
- Hull, Mechanical and Electrical Systems
- Aviation Support Equipment (SE) and Aircraft Launch and Recovery Equipment (ALRE)
- Shipboard C4ISR Systems Installation and Testing
- Ship and Submarine Combat Systems Installations
- Installation Support; Project Planning, Scheduling, Ship Checks, SID Verification, RMMCO Check-In, ILS, SOVT, Redline Drawings/As-Built, CDRLS, and Training
- Ship Repair
 - Shipyard Services
 - Fire Watch Support
 - Tank Watch Support
- Logistics Support Services
 - Warehousing
 - Kitting and Staging
 - Inventory Control
 - Material Distribution Expertise

Manufacturing & Hyperbaric Systems

- Component Prefabrication
- Pre-Installation Fabrication of Shipboard Modernization (AIT) Kits
- Self-Contained Underwater Breathing Apparatus (SCUBA) Hoses and Manifolds
- Hyperbaric Systems
 - Diver's Life Support Systems
 - Pressure Vessels for Human Occupancy (PVHO)
- Shipyard Support Services
 - Marine Chemist
 - Gas-Free Services
 - Shipboard and Industrial Tank Cleaning
 - Fire Watch Support
 - O2 Cleaning Services
 - Ship-Wide Paint and Asbestos Sampling
 - NAVSEA Certified Clean Room and Clean Room Technicians

Contact

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CVN Maintenance & Logistics Support

- Aircraft carrier repair, maintenance and modernization
- AIT, MACHALT and SCD installations
- Program and project management
- Aviation logistics and supply chain management
- Warehousing and kitting
- Procurement, receipt and storage
- Long Lead Time Material (LLTM) identification
- Pre-production planning
- Pre-fabrication

Field Services

- Electrical Generating/Distribution Systems Refurbishment, Modernization, Repair, Test and Evaluation
- Structural Repairs and Fabrication
- Fleet Engineering Support

Technical Services

- Maintenance and Repair Planning
- Engineering Evaluation and Support
- Shipboard Technical Support Worldwide