



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) Level 1 (L1) 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 9,000 sq. ft. equipped with a 7.5-ton overhead gantry crane
- A second shop area with over 10,000 sq. ft. equipped with a 5-ton crane

Our 55,000-square foot production and office facilities at four addresses include:

- 21,000 sq. ft. of training, conference, and office space
- Over 25,000 sq. ft. of production and repair shop space including:
 - 9,544 sq. ft. of open shop area
 - Over 1,200 sq. ft. of 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
 - Over 600 sq. ft. of O₂/N₂ clean room

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, operational testing and hydrostatic testing of submarine masts actuators and cylinders.

Submarine, Aircraft Carrier and Surface Ship – Modernization, Maintenance, Repair and Manufacturing

- Alteration Installation Team (AIT) Support
- Program and Project Management
- Hull, Mechanical and Electrical Systems
- Aircraft Carrier Repair, Maintenance and Modernization
 - 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 and Shipyard Support Services
 - AIT, MACHALT and SCD Installations
 - Fire Watch Support
 - Tank Watch Support
 - Marine Chemist
 - Gas-free Services
 - Shipboard and Industrial Tank Cleaning
 - Ship-wide Paint and Asbestos Sampling
- Logistics Support Services
 - Warehousing
 - Kitting and Staging
 - Inventory Control
 - Material Distribution Expertise
 - Procurement, Receipt and Storage
 - Long Lead Time Material (LLTM) Identification
 - Pre-production Planning
 - Pre-fabrication

Contact

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Manufacturing and Hyperbaric Systems

- Component Pre-fabrication
- Pre-installation Fabrication of Shipboard Modernization (AIT) Kits
- Submarine Component Fabrication
- Self-Contained Underwater Breathing Apparatus (SCUBA) Hoses and Manifolds
- Hyperbaric Systems
 - Diver's Life Support Systems
 - Pressure Vessels for Human Occupancy (PVHO)
 - O₂ Cleaning Services
 - NAVSEA Certified Clean Room and Clean Room Technicians

CVN Maintenance and Logistics Support

- Aviation Logistics and Supply Chain Management

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