



Providing Full Service Support  
to Engineering and Combat  
Systems Worldwide

## Ship Modernization and Repair

### Part of a Bigger Solution

Amee Bay's Hull, Mechanical, & Electrical experience and expertise are key components in our mission to provide a complete range of services to our customers. In addition to these services, Amee Bay is experienced in C4I systems, Information Assurance and Information Technology system design, deployment, installation and maintenance.

A true turnkey solution, we support all phases of a project from the initial concept on the deck plates to shipboard installation and maintenance, including:

- Requirements analysis and system design
- Manufacturing and fabrication
- Installation, in-place repair and in-service engineering for HM&E systems
- Servers/communication rack installation and cabling
- Communication and Computer system hardware installation, software configuration, testing (i.e., SOVT) and training
- Ongoing system maintenance and Technical assistance

Amee Bay's staff possesses the necessary security clearances and flexibility to deploy worldwide in support of all your Engineering and Combat System needs.

Amee Bay is an established engineering & technical services firm with consulting and specialized hands-on services supporting a worldwide, diversified government and commercial client base. Current customers include but are not limited to NSWCCD-Philadelphia, NSSAS, Southeast and Southwest Regional Maintenance Centers, Huntington Ingleside Newport News Shipyard, Portsmouth Naval Shipyard, Norfolk Naval Shipyard, Puget Sound Shipyard, BAE Systems, Military Sealift Command, General Electric and others. Amee Bay engineers, technicians, and analysts provide technical support for virtually every shipboard system including HM&E systems, naval communications, combat systems, structure, and outfitting. Combining total system engineering knowledge with exposure to shipboard maintenance issues, we provide real-time solutions and recommendations to both engineering activities and commands responsible for shipboard maintenance.



*Amee Bay's expertise was used to perform an in-place rewind of a Motor-Generator Stator for Portsmouth Naval Shipyard Code 270. the in-place rewind allowed the ship to return to service rapidly and avoid the requirement to drydock the ship or perform a hull cut.*

### Manufacturing and Fabrication

Amee Bay provides manufacturing and fabrication service at all of our locations. These services range from basic machine shop and welding service to specialized service such as bus bar manufacturing.

### In-Service Engineering

Amee Bay has a passion for improving the maintainability and increasing reliability of systems exposed to harsh shipboard environments. Our Equipment and Subject Matter Experts specialize in Shipboard evaluation, investigation, troubleshooting, and repairs to the following equipment:

- MG Sets
- Cranes
- Diesel Generators
- Degaussing Systems
- Habitability Systems
- Control Valve and Actuators
- Engines and Couplings
- Piping Systems (All Types)
- Turbine Generators
- Electric Plant Controls
- Gas Turbines
- Regulators / Controls / Drives / PLCs
- Circuit Breakers
- Vibration Analysis
- AC&R
- ICAS, ICAN, and IBS
- Pumps
- Environmental Systems
- Damage Control Systems

### Design and Engineering

Amee Bay's design and engineering services typically involve system performance assessments and data analysis, specification development, and occasionally reverse engineering. These services include:

- Electrical, Mechanical, Hull, and Auxiliary Systems Design Development
  - Concept
  - Detail
  - Installation
- Drawing Development (2D & 3D) and/or Review
- System Specification Development
- Systems Integration Technical Support
- Ship Check Support
- Component / System Reverse Engineering
- On-Site Shipyard Construction / Modernization Engineering Support
- Equipment Performance Assessments and Data Analysis
- Gas Turbine, Diesel, Steam, and Electric Drive Expertise
- ECP, JCF, ShipAlt and TempAlt Development Machinery Controls Design and Testing
- Test Plan development and installation support
- Failure Analysis / Forensic / Scientific studies



*Amee Bay was instrumental in the re-design and retrofitting of electronic governors and overspeed devices due to the lack of repair parts. The re-design effort has included development of drawings, procurement/testing of individual components to replace unavailable parts, and assembly/testing/grooming of the final design prior to installation. This was all in support of NSWCCD-SSES Code 934.*

A Small Business

Offices located in AK, CA, FL, PA, SC, and VA

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