Advanced Engineering and Design Services for Offshore Energy and Marine Transportation

Founded in 1975, Alan C. McClure Associates, Inc. (ACMA) is one of the industry’s premier naval architecture and engineering firms. Headquartered in Houston, Texas, we’ve provided advanced engineering and design services to our international clientele in offshore exploration, production and marine transportation for more than 45 years.

ACMA services range from analytical design and analysis to project management and construction services, including dock and sea trials. Our projects have included drilling rigs, floating production systems and support craft for the offshore petroleum industry, as well as for ships barges, tugs, buoys and marine terminals.

The ACMA team has all the engineering disciplines required to successfully complete a project, including naval architecture, marine, electrical, and mechanical engineering. Personnel are assigned to a technical team for each project and contribute on an as needed basis so that each project may be completed with the most efficient and economical use of manpower.
The Application of Leading-Edge Technology

Our specialty is the application of advanced engineering technology to offshore energy and marine transportation projects. By taking advantage of the latest technology while maintaining strict fidelity to the principles of sound design and engineering, this balanced approach allows us to move confidently in any area of marine technology.

Engineering/Design Services
ACMA provides a complete array of engineering and naval architecture design services.

- Feasibility and Cost Studies
- New Vessel Design and Analysis
- Conversion Design and Analysis
- Marine Systems Design and Analysis
- Seakeeping Analysis
- Mooring System Design and Analysis

State-of-the-Art Software
ACMA uses the industry’s most advanced software programs, as well as special programs we’ve developed in-house.

- Computational Fluid Dynamics (Open Foam)
- Finite Element Analysis (ANSYS and CADRE Pro)
- Speed/Powering (NAVCAD)
- Hydrodynamics (AQWA)
- Stability (GHS)
- Rhinoceros 3D
Project Management

ACMA provides experienced management personnel for new vessel construction, vessel modification and repair projects, vessel dry-dockings and class/regulatory representation. These services can be supplied on behalf of the owner, the shipyard or as a third-party interest.

Management Services

• Development of Specifications
• Bid document preparation
• Class, Regulatory and Flag Coordination
• New Construction
• Vessel Repair and Modifications
• Dry-Docking
• Owner Representation
• Contract Monitoring/Change Order Review
• Document Control
• Dockside Testing and Sea Trial Procedures
Surveys/Inspections & Legal/Arbitration

Surveys/Inspection
ACMA provides experience in vessel condition and suitability surveys.

Our Services Include:
- Vessel Condition
- Fit-for-Purpose
- Damage
- Cargo Loading/Securing/Off-Loading
- Vessel On-Hire/Off-Hire

Legal/Arbitration
Past and current projects have provided ACMA with a vast experience in expert witness testimony and in arbitration and dispute resolution management.

Our Services Include:
- Expert Witness - Engineering Issues
- Dispute Resolution – Contracts and Change Orders
- Forensic Engineering Investigation
Projects

Throughout our history of serving the offshore energy and marine transportation industry, ACMA has had the opportunity to work on a broad spectrum of naval architecture and engineering projects.

Marine Transportation, Offshore Production & Storage, Special Projects

- SWATHs
- Crewboats/ Work Platforms
- Deepwater Buoys
- Environmental Clean-Up
- Vessel Mooring
- Owner’s Representative
- Dry-Dockings
- New Construction
- Vessel Repair/Modification