

Marine Services

Safety, Risk &
Integrity Management



Experience for Every Stage of Your Asset's Life Cycle

Recognized as an international authority in the marine community, ABS Group has one of the most experienced teams of marine engineers and surveyors in the world. Our customizable services help clients go beyond compliance to stay ahead in today's challenging marketplace – from newbuild planning to decommissioning.

ABS Group is an affiliated company of ABS, one of the world's leading marine and offshore classification societies. By combining a detailed understanding of marine technical operations with ocean engineering and naval architecture, we help clients achieve quality performance within reasonable schedule and cost parameters. We leverage technology and years of experience to help clients maximize their return on investment.

CONCEPT

ABS Group offers engineering services for shipowners from the early stages of the design of a new vessel. We assist owners in newbuild projects with concept and design development, engineering services and plan review as well as technical services. Our experienced appraisers are accredited members of the American Society of Appraisers and supported by a team of marine engineers, naval architects, professional marine surveyors and industry technical experts.

Our services include:

- Project and financial due diligence
- Energy audits
- Environmental compliance
- Risk assessment and hazard identification
- Feasibility studies
- Market analysis and appraisals





DESIGN

For vessels being designed, our project managers use advanced technology, analysis and modeling to perform an independent review. Taking into account both construction and subsequent operational factors, they identify areas for possible improvement. They also can define technical specifications, draft project requirements and provide guidance on preliminary budget estimates.

Services include:

- Front end engineering design support
- Concept and preliminary design development support
- Tender specification and bid evaluations
- Independent engineering analysis
- Reliability centered maintenance (RCM) implementation
- Design review and verification
- Risk assessment and hazard identification
- Engineering services and plan review

CONSTRUCTION

ABS Group advises clients throughout the shipbuilding process. Our engineers and project managers perform oversight during construction to keep the project on schedule and within budget and technical

specifications. We also verify design specification, drawings and calculations against project requirements and regulatory standards using advanced technology, analysis and modeling.

Services include:

- Plan review on behalf of the owner
- Contract review
- Owner's representation
- Technical design evaluations
- Project management services
- Certified asset valuations
- Technical services for financing and leasing

OPERATION

During vessel operations, we offer services aimed at minimizing business interruption, mitigating adverse environmental impacts and reducing a shipowner's carbon footprint. Audits and manual preparation help clients achieve compliance with industry standards and international regulations. We also offer training to increase staff awareness of marine industry issues, strengthen your company's safety culture and enhance environmental compliance throughout your organization.

OUR SERVICES INCLUDE:

- Internal and navigational audits
- Condition assessments
- Life cycle management such as oil testing and project due diligence
- Engineering services, including trim and stability studies and tonnage measurement
- Energy and environmental services
- Risk services including fleet assessments and HAZID and HAZOP
- Surveys and inspections
- Manual review and preparation

FLEET ASSESSMENT

We provide project management services to evaluate the feasibility of undertaking major modifications or repairs. We can also assess your fleet to determine its general condition and future potential through a Score Matrix, which measures each vessel's attributes based on historical records and analysis.

OUR SERVICES INCLUDE:

- Assistance during retrofitting and modifications
- Fleet assessments including life extension and remaining life

SAFETY MANAGEMENT

We take a comprehensive approach to help clients manage risks to minimize interruptions to business operations both onshore and offshore. Our practical engineering and technology-based solutions follow applicable International Safety Management (ISM) Code requirements and guidelines and assist in complying with industry standards and international regulations.

RISK MANAGEMENT

ABS Group helps marine clients manage risk through prevention and mitigation strategies. We use tools such as HAZID and HAZOP as well as fleet and safety assessments to identify potential issues, develop risk scenarios and analyze consequences. We also perform RCM at optimum intervals, which may keep your fleet fully operational and reduce maintenance expenses. When an incident does happen, we utilize industry best practices and advanced technologies to analyze the event and develop answers to limit liability and prevent future occurrences.

INTEGRITY MANAGEMENT

Organizations want to maximize the value of their assets while maintaining safety and efficiency of their operations. We tailor project management services that promote efficiencies and meet appropriate CAP ratings. Our extensive experience lies in helping clients take conceptual ideas to completion involving new technology.



REGIONS

Americas • Asia Pacific • Australia •
Europe • Middle East • West Africa

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