



ABS Advanced Solutions

OFFSHORE OIL AND GAS

ABS Advanced Solutions is a recognized leader in applying advanced technology, analysis and modeling at each stage of complex engineering projects in the offshore and maritime industries.

SAFETY MANAGEMENT

Accidents can have severe impacts on an organization such as business interruption, lost production and revenue and loss of the facility. ABS Advanced Solutions has offshore risk and reliability experience gained from decades of working with clients worldwide. We are a single-source provider for health, safety and environmental (HSE) services. From the investigation of a single incident to a complete safety culture assessment, we help clients comply with local, state, federal and international safety regulations.

Our safety management services include:

- Safety management systems, including Safety and Environmental Management Systems (SEMS)
- SEMS (30CFR250) implementation
- SEMS training and audits
- Hazard analysis
- Root cause analysis and incident investigation
- Safety culture assessment and training
- HSE safety case

RISK MANAGEMENT

ABS Advanced Solutions is a global leader in developing multifaceted, technical solutions to help clients in the offshore sector manage operational, man-made and natural risks. Although risk is an inherent part of the offshore business and not all risks can be eliminated, our services assist our clients in protecting and enhancing their assets, image and objectives through improved operational efficiency. ABS Advanced Solutions understands how offshore systems are designed, constructed, operated and maintained. Using

knowledge gained from decades of experience, we develop practical, rational solutions that help clients maximize efficiencies and minimize operational costs without increasing exposure to risk.

Our risk management services include:

- Catastrophe modeling
- Explosion and blast analysis
- Hazard analyses
- Natural hazards risk management
- Risk assessments
- Security and vulnerability analysis



INTEGRITY MANAGEMENT

ABS Advanced Solutions is a recognized leader in applying advanced technology, analysis and modeling at each stage of complex engineering projects in the offshore and maritime industries. We use a total asset management approach to develop solutions that help clients verify compliance with relevant international, national or industry standards.

We develop innovative, practical solutions for managing inspection planning issues on simple and complex, multicompartmented structures. Our engineers understand that repair design and execution are critical to extending asset life. When damage is reported, ABS Advanced Solutions will first consider the actual impact that the damage may have upon the integrity of the asset.

Our integrity management services include:

- Engineering verification and specialized analyses
- In-service inspection management
- Mechanical integrity programs
- Project quality management
- Reliability and maintenance management
- Third-party inspection and vendor audits

PROJECT EXPERIENCE

ABS provides objective and reliable advice that clients can depend on. Acting on behalf of asset owners, we confirm manufacturing and construction quality and monitor factory acceptance tests.

- **BW Offshore (formerly Prosafe Production Services Pte. Ltd.)**
FPSO POLVO Safety Case
FPSO ABO Radiation and Dispersion Study
- **Chevron Shipping Company LLC**
Risk-Based Inspection for Agbami
- **Daewoo Shipbuilding and Marine Engineering Co. Ltd. (DSME)**
FPSO Probabilistic Explosion Evaluation
- **Egyptian Offshore Drilling Company**
Baker Marine Pacific Class 375 Deep Drilling Offshore Jackup Construction
- **Hyundai Heavy Ind. Co. Ltd.**
Safety Studies for Bongkot
- **Jurong Shipyard Pte. Ltd. (JSPL)**
Tiro and Sidon FPSO Safety Studies
- **Maersk Oil**
Process Safety, Asset Integrity and Culture Review of Offshore Facilities
- **Petrobras**
Integrated Management of Marine Offshore Engineering Activities for Petrobras Floating Units (GIEN)
- **Toyota Tsusho**
New Construction of Two Jackup Drilling Rigs at PPL Shipyard



WORLD HEADQUARTERS

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