



OFFSHORE PRODUCTION

THE TRUSTED ADVISOR FOR OFFSHORE PRODUCTION UNITS

ABS delivers comprehensive classification and certification services that support offshore production, offering guidance that helps operators meet regulatory requirements and industry best practices. Our technical experience, rigorous approach to compliance and close collaboration with industry stakeholders allow us to provide tailored solutions across the full lifecycle of offshore projects.



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COMPREHENSIVE CLASSIFICATION SERVICES

ABS has extensive experience supporting offshore production projects at every stage:

- **Approval In Principle (AIP):** ABS provides an independent assessment of early-stage offshore production concepts to evaluate feasibility, identify potential risks and support regulatory acceptance before full development. AIPs help project stakeholders gain confidence in innovative designs while aligning with industry standards and regulatory expectations.
- **FEED Support and Approval:** ABS offers comprehensive support during the FEED phase, reviewing proposed offshore production systems for alignment with classification requirements and industry best practices. This early engagement helps identify potential challenges, improve project planning and facilitate the path to final approval and construction.
- **Flexibility:** ABS provides choices of classification scope to accommodate the industry's needs, including the optional classification of the hydrocarbon processing systems and equipment as well as the classification of offloading systems and riser systems.
- **Goal-Based Standards:** ABS has implemented an industry-first option to classification by allowing the use of Goal-Based Standards, providing a pathway to incorporate new designs and technologies into offshore projects.
- **Risk-Based Inspection:** ABS provides an option to the traditional calendar-based surveys with the implementation of an inspection regime based on the risk profile of the asset.
- **Remote Inspection:** Supporting a safer solution to inspect offshore assets, the remote inspection allows the use of Remote Inspection Technologies (RIT) in the classification surveys.
- **Sustainability:** ABS provides sustainability-based solutions supporting the UN's Sustainable Development Goals (SDGs).

BEYOND CLASSIFICATION: SUPPORTING THE FULL OFFSHORE LIFE CYCLE

ABS provides services that extend across the entire lifecycle of offshore production assets:

- **Concept and FEED Support:** Early-stage guidance on regulatory compliance, feasibility and risk assessment.
- **Construction and Commissioning:** Third-party inspections, quality assurance and third-party certification.
- **Operational Support:** Structural integrity management, risk-based inspections and asset performance optimization.
- **Life Extension and Modifications:** Support for conversion projects, upgrades and service life extension.



- **Decommissioning and Asset Retirement:** Technical guidance for compliant asset decommissioning and removal.
- **Verification and Validation:** Verification and validation services according to geo-specific regulatory requirements or operator specifications.
- **Certification:** Certification of offshore and subsea equipment, HPHT equipment, design compliance with industry standards, etc.
- **Regulatory Support:** Regulatory matrix development for regulatory and statutory compliance, for project development or decommissioning.
- **Inventory of Hazardous Materials:** Approval of IHM plans for compliance with statutory requirements and the Hong Kong Convention.
- **Sustainability Services:** Supporting the industry with the development of project sustainability plans, ESG reporting, carbon accounting, CCUS support, etc.

REGULATORY SUPPORT

ABS maintains well-established relationships with regulatory authorities and governing bodies worldwide, offering seamless support for compliance and regulatory approvals:

- **United States Coast Guard (USCG):** ABS is authorized to act on behalf of the USCG to inspect and approve designs, construction, installation and equipment for U.S. units.
- **Bureau of Safety and Environmental Enforcement (BSEE):** ABS has acted as a Certified Verification Agent (CVA) for most floating production units operating in the U.S. Outer Continental Shelf, supporting compliance with federal safety and environmental regulations.
- **Brazilian Regulatory Framework:** ABS has extensive experience navigating Brazil's regulatory environment and maintains strong relationships with Agência Nacional do Petróleo, Gás Natural e Biocombustíveis (ANP) and Diretoria de Portos e Costas (DPC).

For additional information or assistance with an offshore production need, please contact globaloffshore@eagle.org.

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EXTENSIVE PRODUCTION CLASSIFICATION EXPERIENCE

FPSOs

Since the earliest FPSOs, ABS continues to advance methodologies for evaluating dynamic loads, hull strength and fatigue performance. Our expertise includes converted FPSOs, new builds, and redeployed units, supporting upgrades, lifecycle extensions and decommissioning.

SEMISUBMERSIBLES

ABS has classed and certified numerous purpose-built and converted production semisubmersible platforms for deployment in deepwater fields.

JACKUP MOPUs

ABS provides classification, certification, regulatory support and engineering review for jackup mobile offshore units (MOPUs), addressing structural integrity, systems and compliance.

TENSION-LEG PLATFORMS (TLPs)

ABS has been involved with TLP technology since its inception and has played a key role in developing classification standards, covering a full range of TLP designs.

SPARS

ABS has been instrumental in the evolution of spar technology, classing three generations of spar designs: classic deep-draft caissons, truss spars and cell spars.

PIPELINES, RISERS AND UMBILICALS

ABS offers independent verification of design, fabrication, installation and integrity management for subsea pipelines, risers and umbilicals supporting floating production facilities.

WORLD HEADQUARTERS

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