



Marine Warranty Survey Services

In order to prevent loss or damage to your marine installations, we provide offshore installation companies, insurers, energy companies, oil and gas companies, and freight forwarders with extensive Marine Warranty Survey (MWS) services.

Product Certification	Project Certification	Manufacturing Surveillance
Health & Safety	Marine Warranty Survey	Periodic Inspections
Due Diligence	Laboratory Services	Expert Reports
Training / Education	Management System Certification	Grid Connection
Project Planning Services	Coating Inspection Services	CE Marking

Independent Technical Assurance of Marine Operations

A Marine Warranty Survey is the supervision of marine operations on behalf of a client and according to the insurer's interests. Some insurers request an MWS in their warranty clauses. Even if an MWS is not required by the insurer, most owners and operators request a Marine Warranty Surveyor to ensure safety, reliability, and compliance of their installations with applicable standards. This way, the client can be sure of having a warranty in case of damage or loss of the structure.

Typical marine operations include:

- Load out, float out
- Lifting, lift off
- Towing, sea transportation
- Offshore installation
- Cable laying
- Subsea operations

Upon completion of the Marine Warranty Survey, our experts hand out the condition survey reports and Warranty Certificates of Approval to the client.

Our experience - your benefit

We can provide you extensive support with our:

- International network of well-trained experts
- Combined involvement of Marine Warranty Engineers and Marine Warranty Surveyors, who ensure that projects are handled within a high-level safety framework
- State-of-the-art services due to our cooperation with authorities, standard committees and research institutes
- Understanding both local and international challenges

Independent Third-party Review and Approval of Marine Construction and Transportation Projects



Our Marine Warranty Surveyors evaluate the operational risks and assess the feasibility of working practices by performing technical reviews and on-site inspections that include the following steps:

1. Review and approval of documents

- Location survey - pile drivability, jack up ability, environmental conditions
- Load out - lifting, skidding, upending, rigging design, crane capacity, clearances
- Transportation - sea fastening, stability, bollard pull, weather
- Installation procedures - piling, grouting, mating, anchor handling, mooring
- Laying procedures - start-up, laying, crossings, lay-down/pull-in

About TÜV Rheinland:

Founded more than 140 years ago, TÜV Rheinland is a global leader in independent inspection services, ensuring quality and safety for people, the environment, and technology in nearly all aspects of life.

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2. Condition surveys of marine units and equipment

All marine units involved, such as cargo barges and vessels for towing, cranes, anchor handling, cable laying and pipe laying are audited by a marine warranty surveyor. This is done before the start of operations to ensure that they are suitable for the relevant operations and are up to standard.

3. On-site surveillance during each marine operation

The Marine Warranty Surveyor issues Warranty Certificates of Approval prior to the start of each operation.

- Condition survey - complete marine spread and equipment
- Load out - quay, cranes, equipment, tugs and barges, mooring, ballasting, weather
- Towing - winches, hawser, wire protection and control
- Transportation - sea fastening, routing, weather limitations
- Lifting - hoisting equipment, safety factors, clearances, weather
- Launching/upending - reserve buoyancy, bottom clearance
- Installation - positioning, level survey, piling, grouting, weather
- Laying - tensions, ramp leveling, pull-in, trenching

The combination of these services can circumvent potential sources of failure, such as inadequate marine units and equipment, unsuitability to weather conditions and human errors

