



MARITIME

EMERGENCY RESPONSE SERVICE (ERS™)

Container ships

EMERGENCY RESPONSE SERVICE FOR CONTAINER SHIPS

Accidents happen. When they do, DNV GL can help minimise the consequences. By subscribing to DNV GL ERS™, shipowners and managers have access to extensive expertise ready to help evaluate damage stability, hull girder and local strength, residual buoyancy, grounding force, etc.

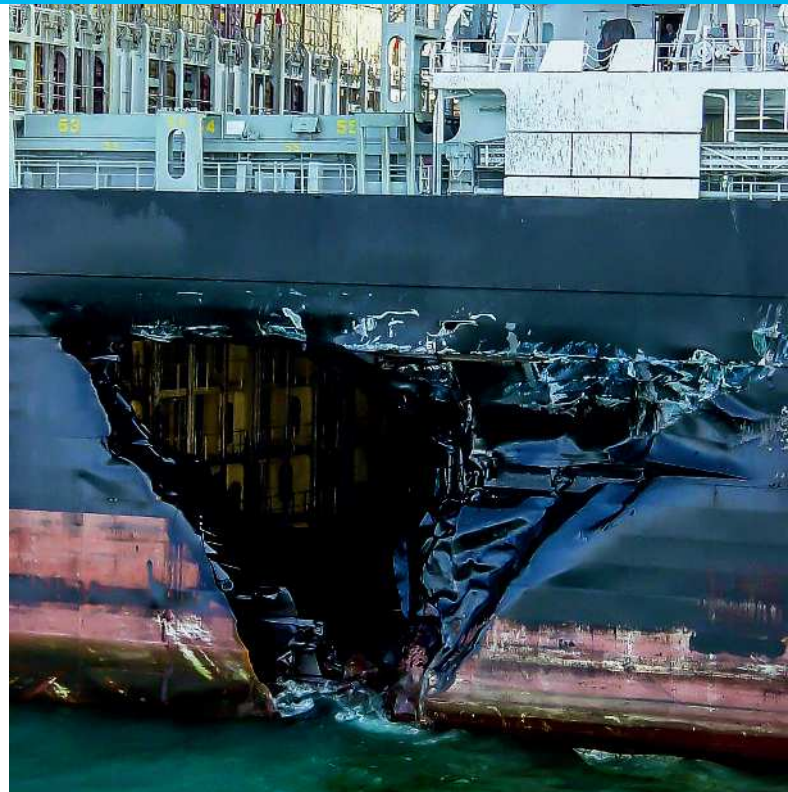
Shipboard emergencies often have a significant impact on the ship, crew, cargo and the environment. DNV GL ERS™ helps to mitigate this impact and reduce the associated direct cost.

OUR SERVICE INVOLVES

- Preparing 3D computerised models in advance
- Calculating the damage stability, residual strength and grounding force 24/7
- Evaluating the actual damage/grounding conditions and providing advice on remedial actions to gain control over the ship
- Evaluating the effect of fire fighting water on the vessel's stability, strength and residual buoyancy
- A proactive approach in evaluating worst case scenarios
- Assistance in developing a plan for the post-emergency phase
- Assistance with calculations in the salvage phase and the transit to the repair yard
- Preparing the loading condition for docking the vessel after damage
- Conducting exercises, training, workshops and seminars

THE BENEFITS

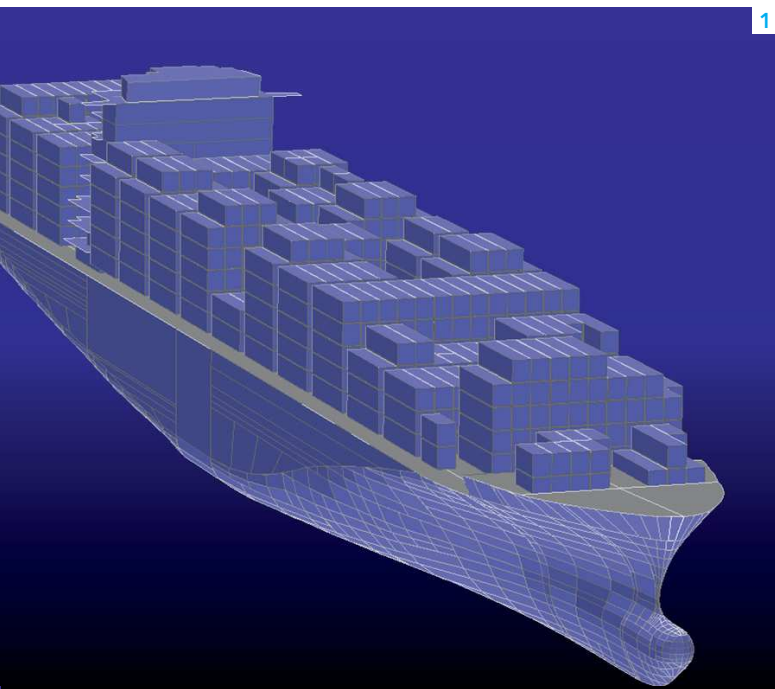
- Immediate response to an emergency on a vessel with dedicated communication lines to our experts
- The service frees up senior shipping company managers to focus on the overall management of the incident
- Assistance on damage stability and strength evaluation
- Ability to reduce the cost of an incident and plan for the return of the vessel back to business and on revenue
- Ability to avoid off hire.
- Demonstrate to underwriters and authorities an active approach to safety and the environment
- Part of the Vessel Response Plan and SOPEP



- Ability to train your crew and shore-based staff to handle emergencies.

OUR STRENGTHS

- Quick simulation of a vessel's loading condition via a BAPLIE/EDI file
- Very accurate damage/flooded condition simulation accounting for the accurate permeability of flooded cargo holds
- Quick and reliable strength evaluation for minor damage
- Ultimate hull strength (3D) evaluation for large-scale damage within 48 hours
- Overview and advice on dangerous cargo on board and associated risks
- The local weather conditions are taken into account

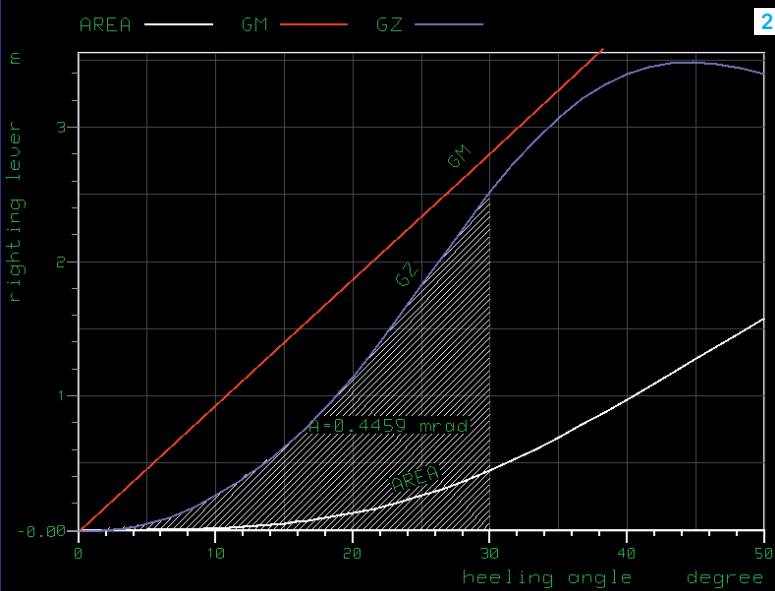


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- Quick evaluation of the need for a partial/full cargo discharge or re-stow
- Not limited to the initial emergency phase only. We provide assistance from the incident to the repair yard

OUTSIDE EMERGENCY SITUATIONS, ERS™ PROVIDES

- Standard exercises to test communication lines and damage scenario calculations in real time
- Preparation of various operational loading conditions, such as conditions for inspecting the rudder and stern tube sealing afloat, docking, back up of loading computer, etc
- Tailor-made exercises for the crew and shore-based support staff in table-top format.
- Conduct and evaluation of exercises
- A review of incident response plans
- Specialised training
- Workshops and seminars



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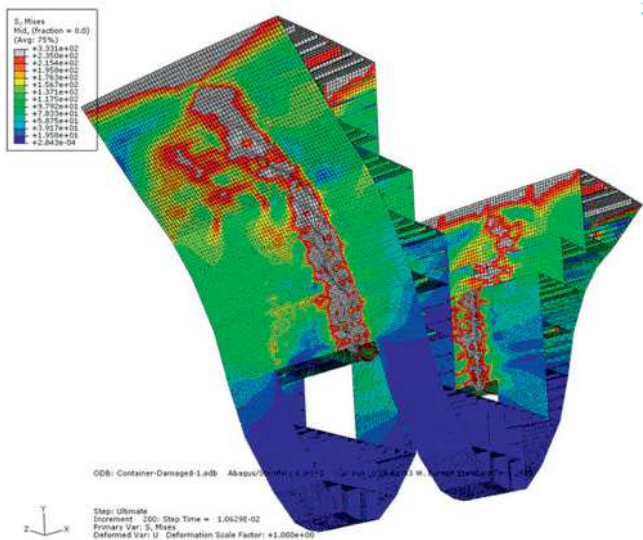
OPERATING WITH CONFIDENCE

At ERS™, highly competent experts can be mobilised immediately after an incident has occurred. We have experts in the following fields:

- Hull structure and design approval
- Advanced hull strength analysis
- Intact and damage stability ships and offshore units
- Machinery and equipment
- Ships in operation, SOLAS, MARPOL
- Master Mariners; ISM, ISPS
- Hydrodynamics

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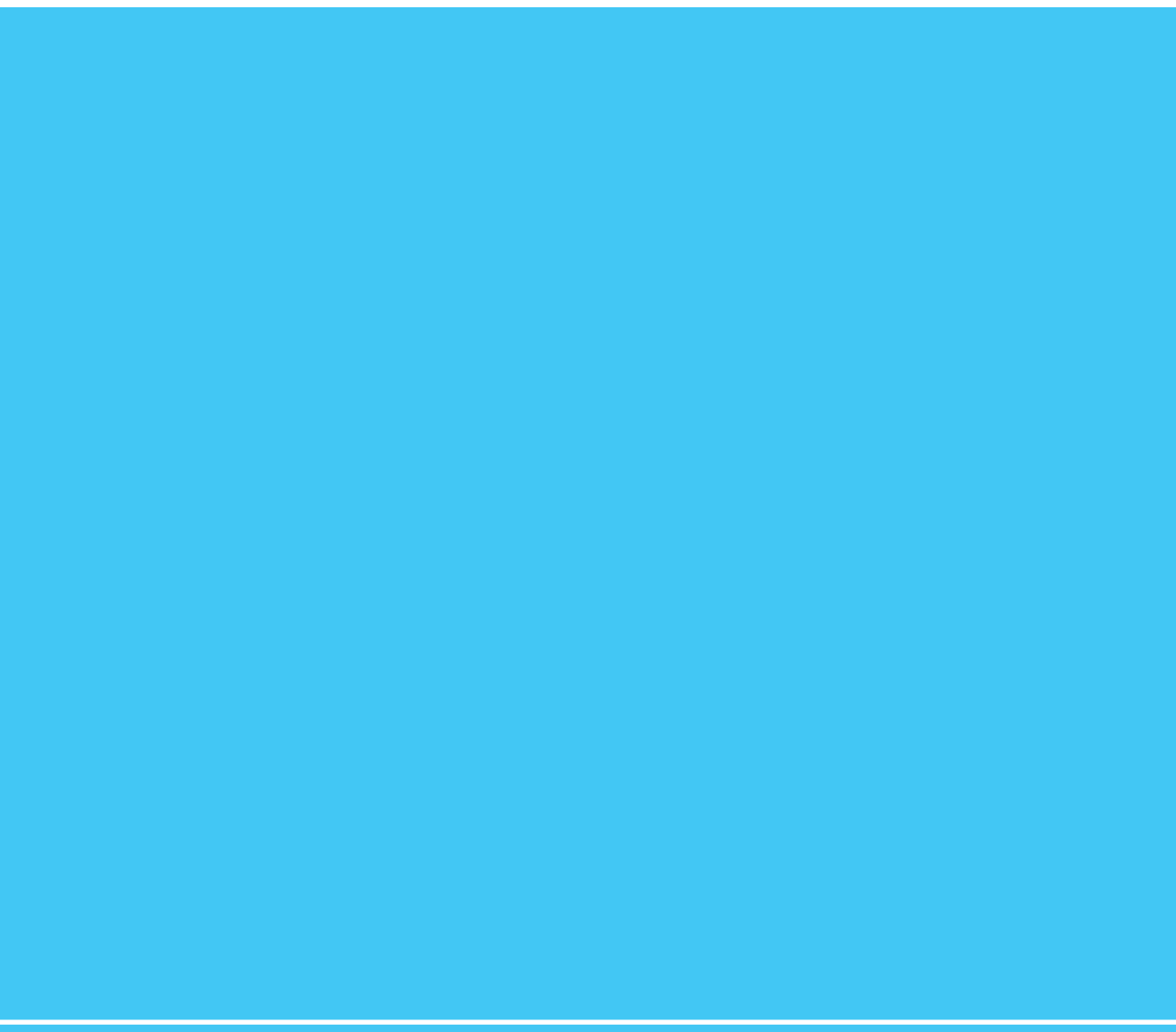
1. 3D Damage stability and longitudinal strength model
2. Stability evaluation curves
3. 3D Hull strength model - damage simulation



How to subscribe to DNV GL ERS™

Please contact your local DNV GL station or the ERS™ directly by sending an e-mail to ers@dnvgl.com.

SAFER, SMARTER, GREENER



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DNV GL

Driven by our purpose of safeguarding life, property and the environment, DNV GL enables organizations to advance the safety and sustainability of their business. We provide classification and technical assurance along with software and independent expert advisory services to the maritime, oil and gas, and energy industries. We also provide certification services to customers across a wide range of industries.

Combining leading technical and operational expertise, risk methodology and in-depth industry knowledge, we empower our customers' decisions and actions with trust and confidence. We continuously invest in research and collaborative innovation to provide customers and society with operational and technological foresight. With our origins stretching back to 1864, our reach today is global. Operating in more than 100 countries, our 16,000 professionals are dedicated to helping customers make the world safer, smarter and greener.