QinetiQ GRC

SeaWeigh

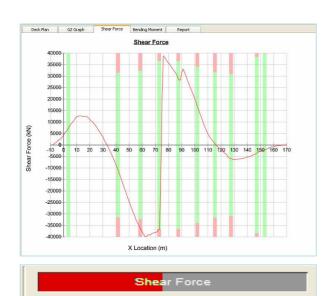
Onboard stability management system

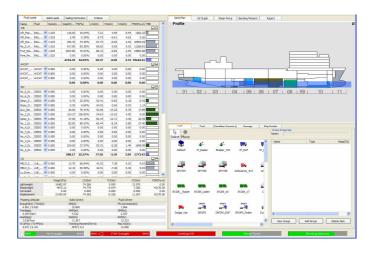
Certified by Lloyds Register to comply with IACS UR L5 Specific Ship Stability Loading Calculation Programs. Ships built after 2005 need to include:

- All stability functions relevant to the ship
- Clear and unambiguous interfaces, both on screen and in printouts

SeaWeigh Provides:

- Active or passive inputs to the calculation system
- Compliance with Types, 1, 2 and 3
 Stability Software requirements:
 calculating intact and damage stability on
 basis of limit curve or previously approved
 loading conditions or by direct application
 of pre-programmed damage cases for
 each loading condition





Loading optimisation

Various loading conditions can be simulated, both stability and structural analysis carried out before any remedial action is made

Decision support

In the event of damage or an incident, stability can be analysed and load adjustment made. Structural strength can be assessed to actively support decision making on board

Easy of use

A single, intuitive interface includes a visual representation of the ship condition

Emergency response

The ship's status can be transmitted by email back to a shore based response team

SeaWeigh is an onboard version of the validated Paramarine suite. Its modern graphical interface makes it particularly suited for ships with large variable loads such as LPDs, aircraft carriers, bulk and box carriers and Ro-Pax vessels

Data sheet - SeaWeigh

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SeaWeigh presents relevant parameters of each loading condition in order to assist the Master in his judgement on whether the ship is loaded within the approval limits.

Providing:

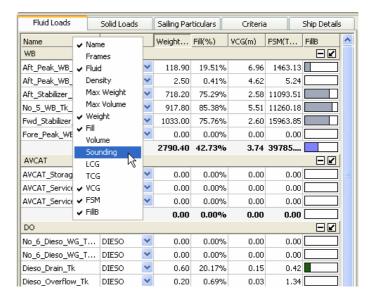
- · Deadweight data
- Lightship data
- Trim
- Draft at the draft marks and perpendiculars
- Summary of loading condition displacement, VCG, LCG and TCG
- Downflooding angle and corresponding downflooding opening
- Compliance with stability criteria: Listing of all calculated stability criteria, the limit values, the obtained values and the conclusions (criteria fulfilled or not fulfilled)

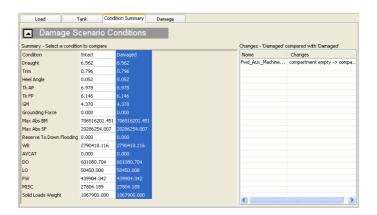
Direct damage stability calculations are performed, the relevant damage cases according to the applicable rules are predefined for automatic check of a given loading condition.

A clear warning is provided in a clear unambiguous manner on screen and in hard copy printout if any of the loading limitations are not complied with.

The date and time of a saved calculation are part of the screen display and hard copy printout.

Each hard copy printout contains identification of the calculation program including version number.





For further information, please contact:

QinetiQ GRC
Haslar Marine Technology Park
Haslar Road
Gosport
Hampshire PO12 2AG
United Kingdom
Tel +44 (0) 2392 334003
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