

Safety at Sea Ltd presents to the RoRo market the iStand Decision Support Software

Following the successful installation of the Decision Support System “iStand” on RCCL’s Oasis of the Seas, Safety at Sea Ltd of Glasgow is exhibiting at Stand B62 to demonstrate the software potential to enhance safe operation of RoRo vessels.

In addition to being used as a Loading computer, the software offers a number of unique features to aid design, operation, training, emergency response and decision support. These include a vulnerability assessment module (“VLog”), which monitors and updates the ability of the vessel to survive a damage, taking into account the status of all watertight doors, tanks, vessel draught and weather conditions through sensor data and / or user input . This allows the crew to understand vessel vulnerability to flooding; hence improve understanding of how best to operate the vessel to minimise consequences of a hull breach.

Another unique feature of the iStand software is the Criticality Assessment Module and Corrective Action search. In the event of a hull damage, these modules will consider information from flooding sensors (if installed), crew-supplied information and vessel attitude to assess the most likely damage and hence provide information on what the extent of damage is and how long before a decision needs to be made on evacuation. Meanwhile the corrective action search algorithm will find possible solutions for the improvement of the vessel’s stability based on how the actual situation evolves.

iStand is currently undergoing class approval through DNV and this is expected to be complete by late summer. The first implementation of the software for a RoRo vessel will be announced later this year. Safety at Sea welcome visitors to stand B62, where a working model of an example RoRo can be viewed.

Safety at Sea’s chairman Professor Dracos Vassalos will be chairing a session and will be presenting his thoughts on “Safety & Stability of RoRo vessels under the New SOLAS Rules” at 11:15 on Thursday 20 May at the RoRo Conference.