Heavy Lift Simulation

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Abstract

One of the growing markets in the shipping industry is the transportation of heavy loads on board of ships. These loads can be turbines, complete Gantry cranes or small ships for example. Often this cargo goes to the limits of ship's stability and capacity.

The loading and unloading process needs an experienced well trained crew to avoid damages of cargo or of the ship and to carry out the loading process in the shortest possible time.In that process, several members of the crew have their specific task, which have to be fulfilled. First of all there is the Cargo Loading Officer, who has the responsibility about the process. He needs the complete overview about the actual status. In addition, the crane operators and the operator of the loading computer and the ballast system have to operate and control the situation.

These procedures can be trained in a simulator specially designed for the complete loading process of heavy cargo.

This speech gives a presentation about the concept for such a simulation which can improve the safety and the workflow in the loading process of heavy cargo.