

Marine Accident Investigation

Specialist Engineering Services

Support of marine accident investigation and litigation cases

SafetyatSea undertakes and supports accident investigations with state-of-the-art knowledge and engineering tools. Our aim is to facilitate the identification and dissemination of the lessons that can be learnt from shipping accidents.

Accident Investigation

Providing accident investigation support for Flag Administrations and Government Organisations

SafetyatSea has a proven track record of providing specialist knowledge and advanced analysis to flag administrations and government organisations engaged in accident investigations. This has taken place in the form of technical coordination of larger teams, as sole investigator or providing in-depth concise studies for the investigating authority. All work is carried out to the highest level of professionalism and quality that our clients expect. Our clients include:

- Panama Marine Authority
- VINNOVA (The Swedish Governmental Agency for Innovation Systems)
- Marine Accident Investigation Branch (UK)
- UK DETR (Department of Transport, Environment and Regions)

Expert Witness

Providing expert witness services for marine lawyers, insurers and owners

SafetyatSea has a proven track record of providing expert witness services for our clients involved in legal proceedings. Our clients recognise our ability to provide accurate sound and authoritative technical expertise on time and within budget. Our clients include:

- Mackinnons Solicitors
- Brookes Bell
- Ince and Co
- Linklaters
- Sunderland Marine Insurance
- Isle of Man Police
- BCP/Three Quays
- Shipowners

Services

Our focus on Safety in Design and Operation combined with our close links to UK universities has allowed us to develop capabilities in a diverse range of areas

- General stability and survivability issues
- Advanced numerical modelling (CFD, FEM, Seakeeping, Manoeuvring, Line Dynamics, Passenger Flow)
- Review of working practices and risk assessment
- Machinery performance and failure
- Structural failure
- Cargo shifting and stowage

The experience at **SafetyatSea** in supporting designers and owners / operators in their normal activities allows us to provide a unique perspective to accident events.



The Sinking of MV Estonia

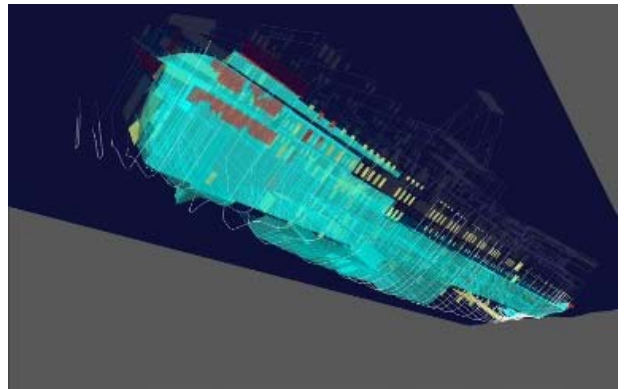
On the night of 27/28th September 1994 the passenger Ro-Ro vessel Estonia sank with the loss of 852 lives while on route from Tallinn, Estonia to Stockholm, Sweden

Between March 2006 and May 2008 VINNOVA (The Swedish Governmental Agency for Innovation Systems) funded a study to provide a technically consistent explanation for the loss.

SafetyatSea took the role of Technical Co-ordinator of the Consortium comprising also: MARIN, SSPA and Chalmers University.

SafetyatSea was responsible, among others, for developing a scientifically sound and consistent hypothesis for the sequence of events that lead to the loss of the vessel. The most important contributing factors were identified, on the basis of which, suitable recommendations were made in order to avert such accidents in the future.

The results of the study may be found at:
<http://www.safety-at-sea.co.uk/mvestonia/>



Flooding scenario simulated by Proteus3

Further Information

For further information please contact
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