

SAFETY LOG 3 | 2017



Norsafe Academy Årsnes celebrates its 400th course participant at the busy training centre





Dear Maritime Colleague,

In the third issue of Safety Log this year, we report on some new collaborative and product redevelopment initiatives by Norsafe and also highlight a couple of great milestone achievements. Our front cover celebrates the 400th course participant at our training academy in Årsnes since its opening in 2015. Participants come from all over the world and include personnel from all sectors of the industry including offshore, commercial shipping and fisheries.

Our engineers have been very busy redeveloping the Mako 655 fast rescue boat to meet the needs of our clients for quick personnel transfers. I would specially like to thank our 3D engineering and product development teams in Norsafe China,

who led the project and will manufacture the first boats. We've also been collaborating with Kongsberg Maritime to develop an Unmanned Surface Vessel (USV) which will be packed full of sensors to act as a combined autonomous and data collection platform.

Finally, to round off this issue, we report on our largest ever offshore LSA contract to supply 8 freefall systems to ENI's Coral South floating LNG (FLNG) facility off the coast of Mozambique. This is a marvellous achievement and I congratulate everyone involved in winning this order. I hope you enjoy reading this issue.

Dag Songedal, CEO Norsafe Group



Fully Booked Courses with Visitors from Around the World

Photos: Kvinnheringen



In September 2017, Norsafe Academy in Årsnes, Norway, celebrated having trained 400 course participants since its opening in 2015. The important milestone was reached despite the training centre being located quite a distance outside the city centre.

The training centre is full of activity every week, with the freefall tower, high speed boats, fire field and classroom in constant use. "All of October and half of November is already fully booked with courses, and this is very exciting for us", said Mr Michael Røsland, VP Norsafe Academy.

"Courses and repetition courses for lifeboat coxswains are just one of many courses we offer here at the training centre. We welcome course participants from all across the world – Nigeria, Scotland and Japan to name several countries, coming from all sectors including offshore, commercial shipping and fisheries", continued a smiling Mr Røsland.





New Norsafe Mako 655 with Stern Drive

Norsafe has completed the redevelopment of the highly regarded Mako 655 Fast Rescue Boat with the first boats to be delivered imminently. Modified to suit boarding and personnel transfer roles, this version of the Mako 655 is fitted with seating for 8 persons and is powered by an inboard diesel engine and stern drive.

The Mako 655 is already one of Norsafe's most successful boats with more than 600 units delivered since 1999. Military and professional operators for this version include ESVAGT, Indian Navy, Norwegian Home Defence, Sabah Port and Harbour Department as well as the Sri Lanka Navy.

This new version of the Mako 655 with stern drive has been developed completely in-house with special thanks to our 3D engineering and product development team in Jiangyin Norsafe, China who led the development and will manufacture the first boats.

Initial orders were received in April 2017 and the first deliveries will be made in October 2017.

Key features of this Mako 655 include:

- 370Hp Mercury 4.2L TDI engine and Bravo 3 XR stern drive

- Speed of 40 knots with load of 1200kg
- Dedicated seating for 8 persons
- Norsafe K4 single point lifting hook with interface for docking head
- Fuel Consumption below 20l/hr at 20 knots in light load

Norsafe will manufacture 14 boats over the next three years so they are available for potential clients' inspection and testing. This project shows how readily Norsafe's SOLAS compliant models can be converted for alternative uses, given the technical know-how of our experienced teams and available resources.

Norsafe Core Values

Reliable

Positive

Cooperative

Innovative

Norsafe developing USV in joint initiative with Kongsberg Maritime



Norsafe has been working alongside Kongsberg to develop an Unmanned Surface Vessel (USV) to act as a combined autonomous and data collection platform with different sensors.

Kongsberg selected Norsafe AS as a partner for multi-purpose USV manufacturing because

of its well-known reputation for building robust and high-quality craft to withstand extreme environments.

Throughout the process of finding the right partner, Norsafe demonstrated the capability of creating an innovative and robust design, which perfectly suited Kongsberg's requirements. The final design

will be a strong competitor in the emerging market of USV solutions. Ideal for military and commercial maritime use, the USV has been designed to be robust and durable with easy servicing and the flexibility to allow for fast equipment changeovers. Norsafe has used its years of experience and skill to design a vessel that is stable on the water with minimal vibration and optimised for low air disturbance under the hull. These features are essential in providing nominal disturbance to the sensitive sensor equipment on board.

The USV has been designed for simple transportation either by road trailer or containerised on deck.

"We are delighted that Kongsberg approached us to take part in this joint initiative. Unmanned vessels are certainly useful in certain circumstances, especially in dangerous situations where the risk to human life is great", said Dag Songedal, CEO for Norsafe.

"We supply the military market with a range of patrol and assistance boats and used this experience to help develop and design the USV together with Kongsberg," he added.



Brand new Open Version of Munin S-1200 for testing in 2018

An open version of the Munin S-1200 high speed interceptor boat will undergo testing at sea in early 2018. The boat will be fitted with triple 400 hp petrol outboard engines offering speeds well over 60 knots.

The boat has a flush deck with modular design which will ensure an excellent working environment for operators. The progression to open boat comes as a further development of the enclosed Munin S types, which have been available since 2009.

Other configurations of the Munin S1200 include:

- Twin or triple Bravo 3 drives with inboard diesel motors
- Twin Arneson surface drive with speeds over 60 knots
- Twin stern drive version with twin VP D6 duo prop with Volvo docking system
- Twin outboard with 400 hp Mercury Verado's with speeds over 55 knots. In operation, this version of the Munin S-1200 is comfortable with very low noise levels in the cabin.
- In operation, this version of the Munin S-1200 is comfortable with low noise levels.

Norsafe subsidiaries:

Norsafe Norway

Norsafe Australia

Norsafe Brazil

Norsafe China

Norsafe Greece

Norsafe Holland

Norsafe Japan

Norsafe Korea

Norsafe Mexico

Norsafe Singapore

Norsafe UAE

Norsafe UK

Norsafe USA



Norsafe Secures Its Largest Ever Offshore LSA Contract

Norsafe has secured its largest ever offshore contract to supply lifesaving appliances to ENI's Coral South floating LNG (FLNG) facility located in Area 4, approximately 50 km from the Mozambique coast.

The order is to deliver 8 freefall systems containing 5 x GES 50 MKIII with HD-50 davits and 3 x GES 45 with HD-45 davits, to the FLNG facility under construction by Samsung Heavy Industries. The davits will be delivered in November 2018 and the lifeboats in February 2021.

The GES 50 MKIII freefall lifeboat will take up to 70 persons and can drop from a height of 47 metres with the GES 45 taking up to 60 persons, having a maximum drop height of 40 metres.

This represents a significant milestone for Norsafe and, combined with other large orders secured recently, means that the company has booked more than 100 million NOK in July; an outstanding achievement given the current market situation.

"I am delighted that Norsafe has secured such a prestigious contract to supply the first FLNG facility in Africa. It is testament to the dedication and hard work of our global teams that we have managed to secure so much business this year," said Dag Songedal, CEO for Norsafe.

"We will continue to listen to our clients and develop products and services to meet their requirements in a cost-effective way," he added.

Norsafe Group Activity Plan 2017:

24.10 – 27.10
Kormarine, Busan, Korea

29.11 – 01.12
International Workboat Show, New Orleans

05.12 – 08.12
Marintec China, Shanghai

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