

SAFETY LOG 2 | 2016



Testing of Norsafe Miriam 8.5 lifeboat in polar conditions during SAREX expedition.



Dear Reader,

In this edition of the Norsafe Safety Log you will learn more about the actions Norsafe is taking in preparation for the introduction of the IMO Polar Code. Norsafe has conducted extensive testing and research in order to be able to supply products that fulfil the requirements of arctic conditions. We are fully prepared and ready to supply properly documented solutions to our customers.

Norsafe has seen an increasing interest in our new line of professional boats within the high speed rescue and SAR segment. Seven boats were recently delivered to the Swedish Coast Guard with eight boats currently under production for the Mexican Coast Guard and three boats for the Australian Coast Guard.

Norsafe has also launched several new boats aimed towards this segment, the latest one is the Norsafe Marathon 900 RIB. This is the first RIB in the Norsafe product range, and has been well received by the customers who have tested it.

Norsafe will participate in several exhibitions this autumn. Both ONS in Stavanger and SMM in Hamburg are important places where we meet customers and have the opportunity to present our company and our products. We do see an increase in activity within several parts of the market. This is promising for the months to come, and with several new orders received over the last few months, Norsafe is well positioned for the future.

Dag Songedal, CEO Norsafe Group



Norsafe Tests LSA Equipment in Polar Conditions in readiness for IMO POLAR CODE

The IMO has adopted the International Code for Ships Operating in Polar Waters (Polar Code) and related amendments, making it mandatory under both the International Convention for the Safety of Life at Sea (SOLAS) and the International Convention for the Prevention of Pollution from Ships (MARPOL). The Polar Code is expected to take effect on 1st January 2017 and is a risk and goal based system. It requires that for each journey in the polar region a specific risk analysis is undertaken to assess and mitigate potential risks proving compliance with the code.

In readiness for the introduction of the Polar Code, Norsafe has placed a strong focus on understanding and solving the issues surrounding the safe operation of Life Saving Appliances in polar conditions. This expertise will enable Norsafe to be the preferred supplier of LSA for ships and offshore installations, especially in projects where winterisation requirements are crucial.

Norsafe has performed a number of full scale tests and exercises in both simulated and realistic conditions in order to document product performance and mitigate potential risks associated in these hostile environments. Norsafe is the first LSA supplier to have executed full scale tests and trials during a joint stakeholder SAREX (Search and Rescue expedition) expedition in April 2016 with the following stakeholders; Norwegian Coast Guard, Norwegian Maritime Authorities, Norwegian Petroleum Safety Authorities, ENI, ABS.

Using a standard Norsafe Miriam 8.5 lifeboat, the expedition simulated a full scale escape, evacuation and rescue operation (to accommodate minimum 5 day survival with the lifeboat as a habitat), in ice infested waters 80 degrees north of the Barentz Sea. During this scenario a risk assessment method was established in order to gain full understanding of the potential issues involved. This not only involved product performance but also key necessities for survival such as food and water, survival kit and even what constitutes a sufficient habitable environment.

In addition, Norsafe conducted tests to address lifecycle issues with LSA equipment which may be exposed to polar conditions. This included a full scale study to determine how to avoid the loss of warmth from a heated

lifeboat in conditions of minus 30 degrees Celsius. Studies were also carried out to test the potential of de-icing lifeboats by means of an installed sprinkler system and consideration was given to various Class specific guidelines requiring product adaptation. To prove compliance Norsafe has worked with DNV-GL to establish a TQ (Technology Qualification) project.

The SAREX expedition and Norsafe's participation gave a unique insight into understanding the risks involved and how best to mitigate them.

As a result of these trials Norsafe is in a unique position to offer ship owners, ship managers and offshore installation clients advice on:

- 1) Project risk assessment of any polar activity
- 2) Mitigate all possible risks by product adaptations and/or safety instructions (rescue/evacuation/maintenance guidelines)
- 3) Provide works certificates for products documenting Polar Code compliance based on the polar water operational manual for Norsafe LSA which is a project specific document.

Norsafe recommends that it is involved as early as possible by those planning a project or journey to the polar region so it can help to mitigate risk using the experience gained from the SAREX expedition and its product equipment tests simulating polar conditions.

For more information, contact: sales@norsafe.no
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Hook replacement for Sapura Kencana in Singapore



Norsafe Singapore has completed the hook replacement of four JYN85F for the Sapura Kencana Semi Tender drilling rig.

The work was conducted in Norsafe Singapore's workshop, in order for the quality assurance and working environment to be controlled to ensure the best practices. The service job was awarded to Norsafe Singapore some time ago when the owner of the rig decided to reactivate its cold stacked unit.

Sapura Kencana is a Malaysian drilling company that acquired several Seadrill Asia assets a couple of years ago. Its current drilling fleet is 17 units and operates mainly in South East Asia.

Norsafe Receives High Praise from Australian Navy

Norsafe, global leader in marine life-saving equipment, has received a glowing recommendation from the Australian Navy for the quality of its lifeboat servicing on one of the Navy's replenishment vessels HMAS Sirius.

The work on the HMAS Sirius involved lifeboat overhaul and upgrade plus Non-destructive testing (NDT) inspection and overhaul of the winches and davits.

Norsafe Australia received an e-mail from Chief Petty Officer Ben Reid which said:

"I would like to express my thanks to the Ben Fuller and his team that recently completed the 60 monthly service routine on the Royal Australia Navy Replenishment Tanker HMAS SIRIUS for the 73 man fully enclosed lifeboats and davits. Having just taken over the responsibility for maintaining these craft it is great to be on the receiving end of quality workmanship and attention to detail in the area of Deep Level Maintenance."

"Whilst I have not seen the closing reports, I'm very impressed with the material state that the boats and davits have been returned in, seeing these safety critical assets receive such attention to detail is excellent, and represents Norsafe in the best possible light. Ben and his team are professional, courteous and kept the ship well informed throughout the task."

He went on to add: "I would recommend Norsafe for this task to any one in need of quality workmanship."



Norsafe secures contract with VARD Group

Norsafe has signed a new contract with VARD Group, and will supply lifeboats complete with davit systems to a series of fifteen new vessels.

Topaz Energy and Marine has appointed shipbuilder VARD Group to construct fifteen Module Carrying Vessels (MCVs), each measuring 123m long by 16.5m wide. The MCVs will be built at three of VARD's sites in Vietnam and Romania. Norsafe will deliver two JYN 57 conventional lifeboats with LHD-60 davit systems to each vessel.

The unique design of Norsafe's LHD-60 davits offers stability, and this is also achieved through a low to the ground installation, which is ideal for placement on the narrow vessels. Delivery is scheduled between January 2017 and June 2018.



Established in November 2012, Norsafe Australia was set up to provide a localised OEM servicing operation for its existing clients and to help win new customers.

With support from the regional office in Singapore, Norsafe Australia is in an ideal location to provide servicing for the Australian oil and gas industry and is the only OEM to establish a base in this region.

Endre Eidsvik, Norsafe's SVP of Service, said: "Getting positive feedback like this from clients is really pleasing and vindicates the way in which we train our personnel. Ben Fuller and his team are true professionals and receiving such great praise from the Australian Navy is tremendous."



Norsafe Academy increases its course portfolio

Norsafe Academy Årsnes has increased its course portfolio by offering advanced firefighting courses. Previously, firefighting and smoke-diving had been a component of other courses for maritime personnel. Norsafe was recently asked to arrange a realistic training scenario for local firefighters in search and rescue operations and firefighting onboard vessels. The course also included man overboard drills to simulate what can happen when a vessel is on fire. Following the success and positive feedback from the firefighters, Norsafe will now promote Årsnes as a location for realistic firefighting training courses for both land and maritime based industries.



New contract to supply lifeboats to Petrobras

Norsafe has secured a new contract and will deliver four JYN 115 lifeboats to Petrobras platform P-54, deployed in the Roncador Field off the coast of Brazil.

The boats will be manufactured at our factory in China, and delivery is planned for November 2016. This contract strengthens and confirms Norsafe's position as Petrobras' preferred supplier of lifeboats for many years.

Norsafe subsidiaries:

Norsafe AS, Norway

Norsafe Australia Pty Ltd.

Norsafe Årsnes AS, Norway

Norsafe BV, The Netherlands

Norsafe Comércio e Serviços Matrimos Ltda., Brazil

Norsafe-Fours, United Arab Emirates

Norsafe Hellas S.A., Greece

Norsafe Japan Ltd.

Jiangyin Norsafe F.R.P. Co. Ltd, China

Norsafe Korea Co., Ltd.

Lifeboat Service de Mexico SA DE CV

Norsafe Marine & Offshore Service LLC, USA

RIB Norsafe Servicos Tecnicos da Petroleo Ltda., Brazil

Norsafe Singapore Pte Ltd.

Norsafe UK, Aberdeen, Scotland



Ichthys LNG Project Lifeboat Commissioning

Norsafe has delivered lifeboats complete with davits to the Ichthys LNG Project's Floating Production Storage and Offloading vessel (FPSO).

The FPSO is currently in the commissioning phase of construction at the Daewoo Shipbuilding and Marine Engineering (DSME) shipyards. Seven GESSO MKIII freefall lifeboats with seven HD-50 davits and one NDA-40 HST davit with Magnum 750 fast rescue craft were delivered to the Ichthys LNG project's FPSO, to be stationed in the Ichthys Field in the Browse Basin, offshore Western Australia.

Three port-side lifeboats on the INPEX FPSO were commissioned between the 29th of June and 1st of July by DSME and INPEX inspectors with support from Norsafe engineers.

All functional tests were performed with a full load (maximum RPM, sprinkler test, electronic components test and one hour driving test). Commissioning of all systems will be ongoing in July and August, with engineers from Norsafe Korea and Norsafe HQ participating in the commissioning process.

Norsafe Group Activity Plan 2016:

29.08 - 01.09

ONS Stavanger, Norway

06 - 09. September

SMM Hamburg, Germany

17 - 21. October

Euronaval, France

19 - 21 October

Offshore Korea, Busan, South Korea

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