

Subchapter M: Regulation v. Reality Lessons Learned & The Road Ahead

SAFETY ON SITE: MAN OVERBOARD RESCUE

Kim Rene Vågeskar Division Manager, Rescue Equipment Dacon AS



CONTENTS

- Background
- Product Range
- Challenges & resources
- Importance of Horizontal rescue
- Realistic Training
- Closing words



DACON AS - Background

- Founded in 1979 as an offshore diving company
- Provided offshore safety / rescue training for standby vessels 1981-1994
- Identified a lack of efficient MOB rescue equipment
- Developed a range of rescue equipment for horizontal MOB rescue in the 80's and 90's
- Introduced the first power assisted method of recovery in rough weather conditions "Dacon Rescue Scoop"
- Industry leading quality and know-how
- In-house R&D, design and project support for our customers
- Track record all over the world, exported to 60+ countries. 30+ countries in 2019



DACON PRODUCT RANGE



www.dacon.no/rescue/ rescue@dacon.no +47 2106 3510



MOB CHALLENGES

- Cold water
- Rough weather
- Far from shore based resources
- Short handed crews
- Limited time for training



Importance of Horizontal Rescue

People who have been in the water, the injured and the incapable, should be lifted in a horizontal or nearhorizontal position if possible.

(IMO GUIDE TO RECOVERY TECHNIQUES, MSC.1/Circ.1182/Rev.1)

The lower body is compressed by the hydrostatic effect of the water—the so-called G suit effect—and blood is dverted upwards.

Blood volume becomes progressively depleted by a physiological reflex causing excessive urination and pulse rate slows as hypothermia develops.

Vertical lifting causes immediate loss of the G suit effect. The already reduced blood volume instantly pools in the lower body and the heart rate cannot increase to compensate for this sudden loss of central blood volume.

As a result, circulatory shock and sudden death can occur. This is called circumrescue collapse and is a recognized major hazard of vertical lifting when recovering someone who is hypothermic.

-BOB WRIGHT, MD, DIRECTOR, INTENSIVE CARE SERVICES, ST. VINCENT'S HOSPITAL, SYDNEY









Importance of Horizontal Rescue

The body of a casualty fallen overboard for a period of time contains warm blood and very cold blood; their heart has a decreased ability to speed up when it needs to, and veins and nervous systems have been temporarily altered in such a way that may have them on an edge very close to significant heart malfunction. They are fragile – and must be treated carefully. Below are some best practices for the recovery from the water phase:

Recover them as horizontally as possible: If you can avoid lifting them out of the water vertically, do it. The hydrostatic pressure on their body has made it easier for their bodies to maintain blood pressure – as soon as they are removed, the heart has to work harder – and a cold heart doesn't do well at working harder.

Don't make them work for it: Don't ask them to "pull" or to exert themselves in their own rescue if it can be avoided. Remember, they are in a fragile cardiovascular state and climbing that net after being in the freezing water may be the last thing they ever do.

No walking: They shouldn't be walking around until the are completely recovered. There is some very cold water in those limbs and for the time being, you want it to stay there.

None of this is as important as getting them out: If you're at sea, and the only way to get them aboard is by hauling them over the rail Just do it....carefully, and be very gentle with them once they're aboard.

Mario Vittone, Gcaptain.com



DACON RESCUE FRAME – RECOVERY NET

- 5 year warranty
- No mandatory service or inspection
- Compact dimensions
- Horizontal rescue ensures gentle recovery
- Used by Sea Rescue Societies world-wide
- DNV Type Examination Certificate
- 30 year track record in the North Sea with thousands of units sold











DACON RESCUE FRAME – RECOVERY NET

Typical application:

- Fast Rescue Crafts
- Tugs & work boats
- MOB boats
- Life boats and cruise tenders
- Search & Rescue vessels







Words from the industry:

"At Sea Training International we provide fast craft training to customers in the most demanding sectors. The Dacon Rescue Frame we use in our training sessions is easy to use and has served us well over 10 years with no maintenance costs and minimal signs of wear."

- Paul Davies, Sea Training International



DACON RESCUE SCOOP RSB/RSC – POWER ASSISTED RESCUE

Typical application:

- Crew transfer vessels
- Fast supply vessels
- Tugs & workboats
- Seismic support ships
- Search & rescue vessels
- Small ferries



Words from the industry:



"We have made several tests in severe weather conditions with wave heights of 4.5 meters, and have not found any limitations in the system. The Dacon Rescue Scoop gives us the opportunity to safely conduct pick up operations without risking the safety of our own crew."

– Knut Even Rislaa, Captain on a Norwegian SAR vessel



Sea Trial DY 122 unannounced MOB drill

www.dacon.no/rescue rescue@dacon.no +47 2106 3510



Training



DACON RESCUE DUMMY – REALISTIC TRAINING MANNEQUIN

- Long track record in the North Sea Proven quality
- Dummy of choice for training centres and offshore drill organizers
- Realistic measurements (1,9 m tall, 85 kg max weight)
- Limbs and joints articulate similar to a real person
- Adjustable between horizontal and vertical floating
- Designed and manufactured in Norway
- Extremely robust design







DACON RESCUE DUMMY – REALISTIC TRAINING MANNEQUIN

www.dacon.no/rescue rescue@dacon.no +47 2106 3510



Closing Words















SM

SVITZER

G & H TOWING COMPANY







Royal Netherlands Navy



TIDEWATER





SWIRE PACIFIC OFFSHORE



Thank You!

Kim Rene Vageskar

kimrene@dacon.no +47 91 17 20 29 www.dacon.no/rescue

