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BY BRYONY MCCABE 13 MAR 2020

Controlling underwater noise

?

THE REGIONAL REPORT

SILENT class notations from DNV GL are designed to address growing levels of noise from operations at sea...



Fish and marine mammals rely on sound to communicate with each other, locate prey and navigate over long distances. These and other vital activities are disrupted by noise from ocean-going vessels, sonar devices and offshore energy operations. Scientists have become increasingly aware of this threat to biodiversity, and some rate underwater noise pollution as the next global threat after climate change and chemical pollution.

To address these marine noise-related issues, DNV GL issued the first underwater noise notation in 2010, the SILENT class. The intention of the notation is to provide owners of acoustically sensitive vessels with concise and realistic criteria for underwater noise emission, and to provide environmentally conscious owners with an opportunity to demonstrate a low environmental footprint.

The environmental impact of underwater noise is gaining more attention from governments around the

world. One example is the Port of Vancouver, where incentives in the form of port fee reductions were introduced in January 2017 to manage the impact of noise from shipping activities on at-risk whales in the region. The European Marine Framework Directive also includes underwater noise as a descriptor in order to achieve and maintain "good environmental status" by 2020 and new IMO requirements addressing underwater noise are reportedly in the pipeline.

As a result, SILENT class notation from DNV GL is increasingly being recognised and applied by shipyards, owners and design institutes. The notation provides rules for specific operations or vessel types, including fishing, seismic, research, acoustic and environmental, defining acceptable noise for each category and addressing the specific challenges in various areas of operation.

The notation provides environmentallyconscious owners with an opportunity to show proof to authorities of a low environmental 'footprint'...

The most relevant notation to superyachts is the SILENT-E (Environmental) class notation, which applies to any vessel needing to demonstrate a controlled environmental noise emission. The notation, therefore, provides environmentally-conscious owners with an opportunity to show proof to authorities of a low environmental 'footprint' and, as such, future-proof vessels for possible coming regulations and avoid exclusion from sensitive areas.

"The main benefits of the notation for superyachts include the economic incentives in north American waters and, with such long lifecycles, superyachts can futureproof operations against the expected new IMO requirements, as well as gain permissions to enter environmentally sensitive areas," says Kai Abrahamsen, senior principal engineer at DNV GL. "Some superyacht owners might also want to stand out as environmentally friendly."

Abrahamsen advises that the majority of superyachts would be able to achieve the notation with minimal additional cost. "Superyacht are built with on-board comfort a priority, and the sources for on board noise and underwater noise are the same," he explains. "So, most yachts already have the inbuilt design and technology that would allow them to achieve the notation without changing anything. The main costs involved would be the classification costs to obtain the certification."

DNV GL has experienced a high level of interest in the notation from superyachts. For example, The *REV Ocean* project has very strict underwater noise requirements and, falling under both research vessel and yacht categories, is being built under the SILENT-R or Research notation, the strictest level of underwater radiated noise requirement in the SILENT class notation.

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