

Vinterisering vs. risiko, vindpaneler, avising, Design av Goliat

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Resymé av foredrag

The design philosophy of the Goliat FPSO has been to ensure that the FPSO can operate safely and efficiently in cold climate by providing satisfactory protection from the effects of cold climate on humans and safety critical equipment.

The Goliat weather data was presented. Goliat can be subject to icing and the design solutions have been selected to minimize the effects from icing.

The main design principle has been to install proactive shielding of exposed areas to ensure the functionality of all systems and arrangements onboard.

A winterization structure has been designed to ensure the necessary protection. The structure has been designed taking explosion pressure relief, noise, wind and flying objects into consideration.

The winterization solution is a balance between explosion protection and working environment considerations. With the design temperature of Goliat, this has been possible to achieve. This might be a significant challenge in areas in the Barents Sea where the design temperature is significantly lower than - 20° C.