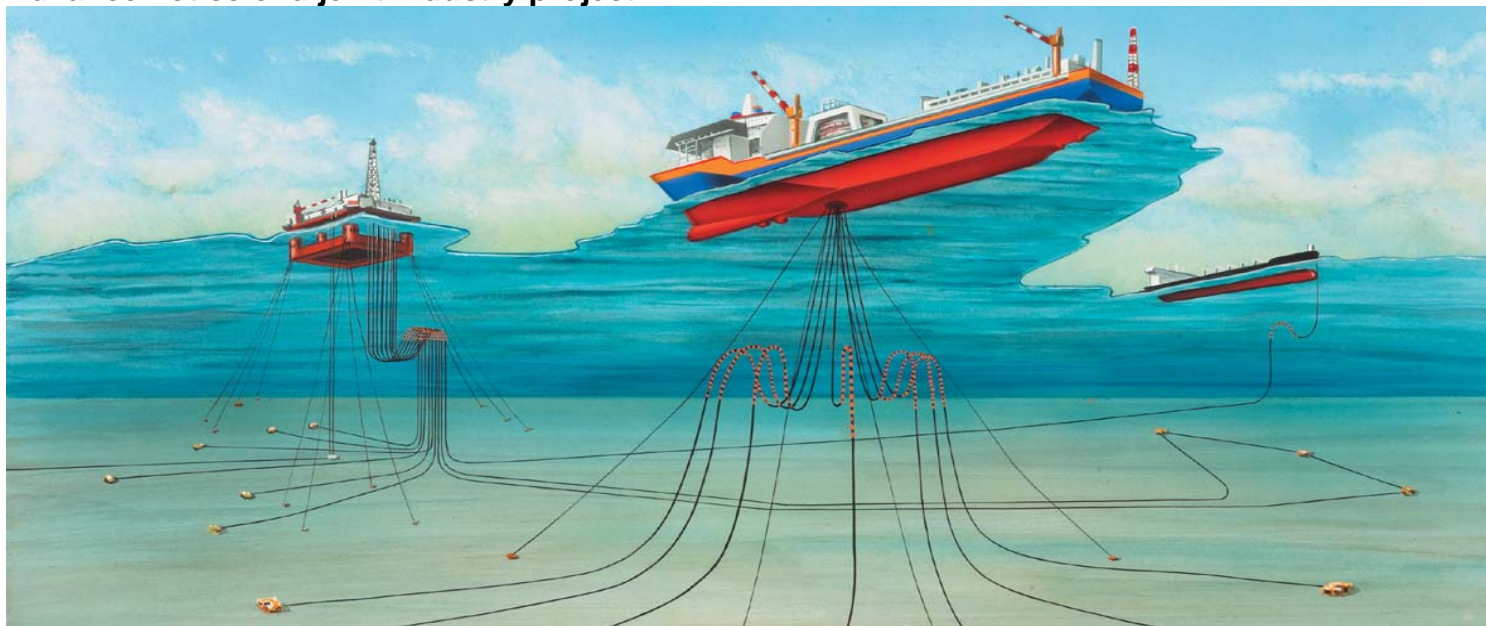


Advance notice of a joint industry project



NorMoor JIP

Norwegian regulations for mooring systems are based on the Petroleum Safety Authority's (PSA) Facilities Regulation §64 and refer to "Ankringsforskriften 09" from the Norwegian Maritime Directorate (NMD 998/09). The requirements to mooring analyses have taken an important step forward with this new anchoring regulation. A specific analysis methodology is required (with reference to ISO 19907-1) and requirements to the quality of the analysis model are also included. However, in order to ensure that the probability of failure of a mooring system is sufficiently small, it is essential to know the safety level implied by these regulations.

Objective

The project aims at unifying design requirements for mooring lines in Norwegian waters, using reliability-based calibration. Design recipes for frequency-domain and time-domain approaches will be proposed, and safety factors for ultimate (ULS), accidental (ALS) and fatigue limit states (FLS) will be calibrated.

Background

We are currently running a NorMoor pilot study for Statoil. In the study the probability of failure of mooring lines is calculated for the ULS when the mooring line strength is designed exactly to the minimum requirements set by NMD/PSA. The pilot study will be completed in June.

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Kjell Larsen (klars@statoil.com) may be contacted regarding the pilot study.

Time schedule

Invitations to participate will be distributed in August. Please let us know if you would like an invitation.

Start-up January 2010.

Duration 3 years.

Participants

Oil companies

Rig owners

Manufacturers of chain, steel wire rope and synthetic fibre rope

Engineering companies

Norwegian Maritime Directorate (NMD)

Petroleum Safety Authority (PSA)

Health and Safety Executive (HSE)

DNV Energy

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