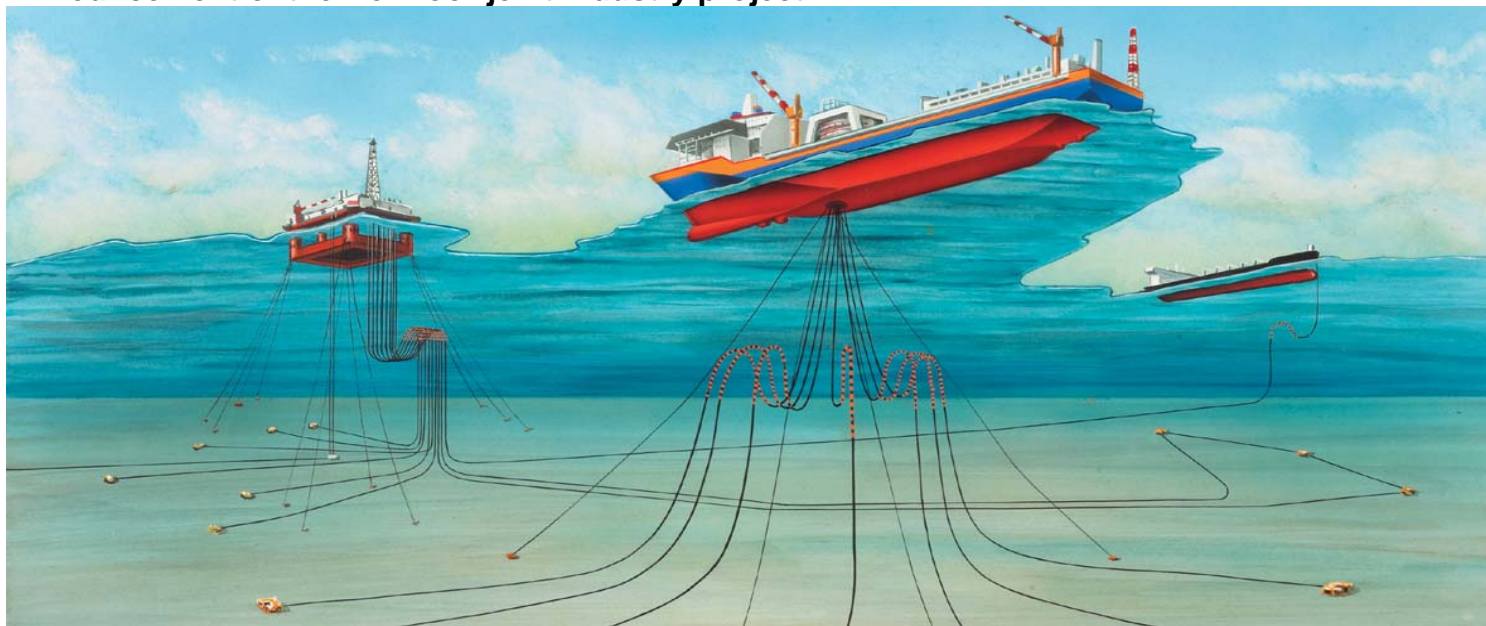


## Announcement of the NorMoor joint industry project



# 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.

### Objectives

1 To investigate and compare the characteristic line tension calculated according to design standards with the annual extreme value distribution of the line tension.

2 To calibrate safety factors for mooring line design for the ultimate limit state as a function of the target probability of failure.

These objectives are formulated relative to the ULS for mooring line design. Additional phases for the accidental and fatigue limit states will be proposed later if the project is successful. Other metocean conditions, in addition to Norwegian conditions, may be included if additional participants join the project.

### Background

DNV has recently completed a pilot study for Statoil. Annual extreme value distributions of line tension were computed from time domain analyses of two semi-submersibles. A dependency on the distribution of wave headings was uncovered which is not well handled in existing standards.

### Potential 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)

### Time schedule

Kick-off: January 26, 2011.

Duration: 2 years for phase 1, the ULS.

Invitations to participate and the detailed project proposal are now available. Please let us know if you would like an invitation.

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