Best practice examples

Guideline

The following topics should all be described to have your submission approved:

1. *Describe the product/service.*
2. *Describe its functionality and relevance for arctic and cold climate conditions.*
3. *Describe the added value it creates for the customer (value proposition).*

Example 1

Company: Subsea Incorporated

Flow assurance for subsea flowlines

Hydrate and wax removal tool particularly applicable for subsea production facilities in low temperature waters. A rubber-based mat of longitudinal blocks with integrated heat tracing and sensors for temperature monitoring deployed over flowline develops a temperature field to resolve a plug of hydrates or wax.

Petroleum in the arctic produced from shallow reservoirs is already low in temperature at the wellhead. With seawater temperatures below zero degrees and long tieback, the possibilities for flow assurance mishap is significant.

The financial losses from production interruption or asset damage due to flow assurance accident can be astronomical. This heating device provides a cost effective, quick and safe way of removing a plug of hydrates or wax.

Example 2

Company: Multiconsult

Ice loads and structural response

Multiconsult holds extensive knowledge and experience related to steel and concrete structures in arctic environments. This includes use of recognized analysis programs and tools and programmes developed through own initiated R&D projects.

Multiconsult conducts advanced hydrodynamic analyses to determine wave impact and response. This includes numerical time domain simulation of the response in moored structures to waves and cold climate actions.

This expertise is vital for our customers when establishing correct design basis for sea ice and other relevant cold climate challenges, offshore and onshore. Multiconsults strength is our understanding of the design process and thus a close working relationship between analysts and designers, i.e. integrated analyses in the design process.