

**NLI**

# MATERIAL HANDLING



## Unique Competence – Unique Solutions



### Our Competence

Why material handling:

- To improve safety and working environment for the operators.
- To ensure compliance with laws and regulations.
- To add reliability and avoid downtime.
- To reduce risk of damage to equipment and surrounding structures.

In Norway, material handling on offshore installations is controlled by the Petroleum Safety Authority (PSA). Material handling requirements are specified in NORSOK R-002, together with other NORSOK standards and different Company specifications.

Based on NORSOK R-002, engineering and provision of lifting equipment shall be carried out in parallel with the engineering of the installation. Facilities for maintenance, inspection and testing shall be provided. Preferably, material handling solutions shall be verified and documented by use of 3D design tools.

Depending on the project phase, projects for development of new installations shall establish a general material handling philosophy, an offshore crane study and a material handling plan.

NLI Engineering has long experience working with material handling, ranging from small skids to complete installations and from early FEED studies to Detail Engineering. Our experience with incorporation material handling arrangements into the 3D model (PDMS) in combination with presenting the results in a review model (NavisWorks), have proven very useful in several projects.

NLI Engineering material handling deliverables:

- Material handling philosophy
- Material handling plan/report
- Material handling solutions during FEED and Detail Engineering
- Material handling solutions incorporated into 3D model

### About NLI

NLI is a group of companies supplying engineering and fabrication services, technology products and process solutions to the offshore oil and gas industry. We undertake the complete responsibility from concept development to manufactured product.

Our mission is to make life easy for our customers. To fulfill this goal we focus on competence development, high quality, flexibility and punctuality. NLI has today approximately 200 highly qualified employees.

### Contact Information

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# Project references

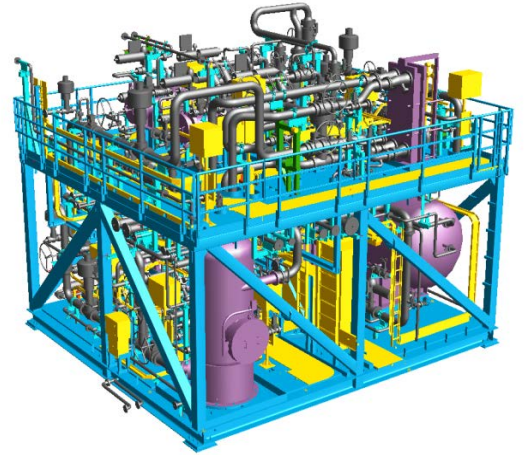
## Schlumberger PWU-skids

Client:

Schlumberger

Scope:

General material handling design and material handling report on produced water treatment skids for Hebron, Goliat, Valhall, Eldfisk and Gina Krog projects.



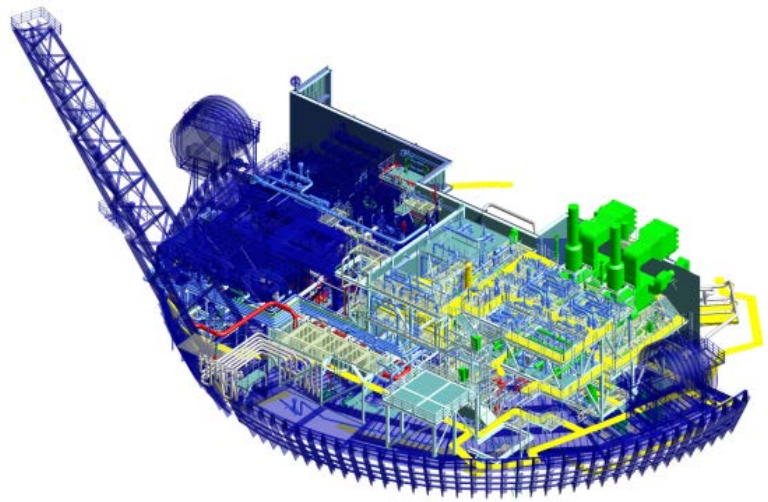
## Sevan Marine FPSO's

Client:

Sevan Marine

Scope:

General material handling design and material handling report on Sevan Marine FPSO's Hummingbird and Voyageur.



## FEED studies

Clients:

ENI/Sevan Marine  
Teekay

Scope:

Goliat FEED study: material handling philosophy and crane report.

Bream FEED study: material handling philosophy.

