

YOKOHAMA - HOSES CALM BUOY

Client YOKOHAMA Rubber

Co. Ltd.

Field Japan

Location Japan

Waterdepth 100 m

Type Subsea hose

Floating Hose

Flexible Riser, Flowline, 2 x subsea

Hoses

1 x floating

Scope of Work

- 1. CALM Buoy system hose design
- 2. Subsea Hose configuration dynamic analysis and design
- 3. FSO loads and CALM Buoy offsets
- 4. Complete floating Hose analysis

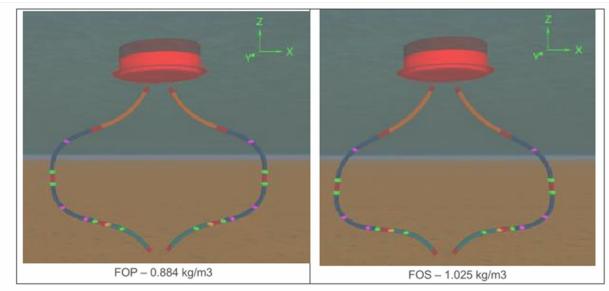
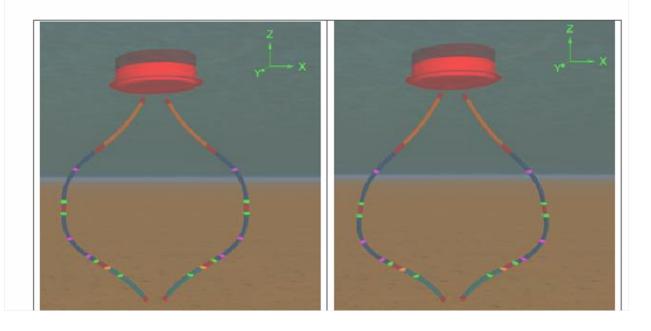


Figure 5: Static Hose Profile for LAT





YOKOHAMA - TANDEM OFFLOADING HOSE

Client YOKOHAMA Rubber

Co. Ltd. / T7

Field MVS

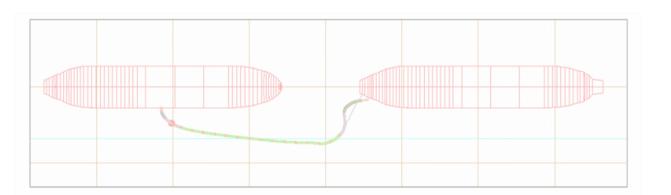
Location Vietnam

Waterdepth 90 m

Type Tandem floating hose

Flexible Riser, Flowline, Floating hose

Hoses



Scope of Work

- 1. Dynamic analysis of offloading hose when free floating behind FPSO
- 2. Dynamic analysis of offloading hose when looped back behind FPSO
- 3. Dynamic analysis of offloading hose when used in Tandem FPSO Shuttle tanker
- 4. Loads from floating hose on full system.





HESS FLEXIBLE RISER & FLOWLINE

Client HESS

Field Bergading

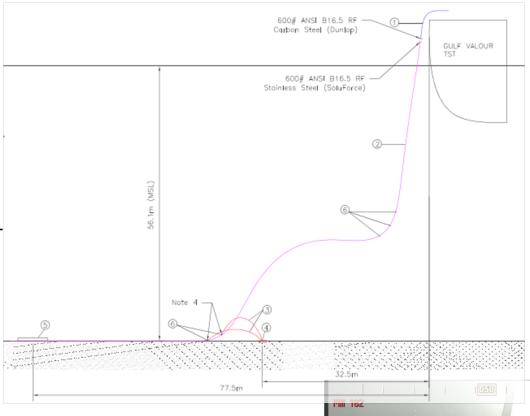
Location Malaysia

Waterdepth 56 m

Type 6" ID

Flexible Riser, Flowline, Flexible Riser & Flow-

Hoses line



Scope of Work

- 1. Design of the subsea flowline, riser and hose system for condensate transfer from CPP
- 2. to the TST.
- 3. Design of subsea support bases and gravity systems.
- 4. Upgrading of 6-point mooring system to 8-point mooring system to increase the operability.
- 5. Structural modifications to install 2 chain stoppers and 1 QRH at the stern of the TST.
- 6. Installation engineering for the tanker, mooring and SURF.
- 7. Provision of all personnel for installation, management, Flowline installation management
- 8. EPIC of the Offshore installation of the tanker, mooring system and SURF.
- 9. Design engineering and offshore procedures for offloading of condensate.





UAE Flexible risers & Umbilical

Client UAE Company

Field Bergading

Location UAE

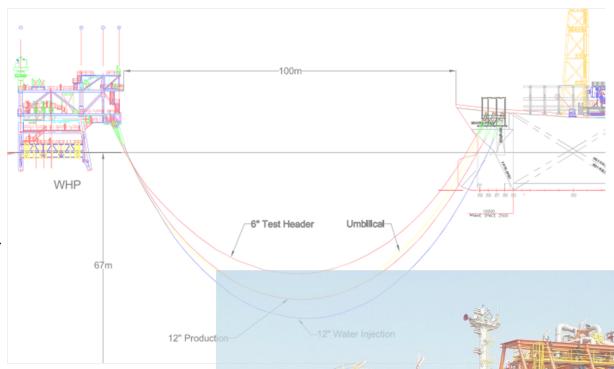
Waterdepth 80 m

Type 6", 12" ID

Cable

Flexible Riser, Flowline, Flexible Riser, Umbili-

Hoses cal / Power Cable



Scope of Work

EPIC for the following:

- 1. Subsea, Risers and umbilical
- 2. Design of riser & Umbilical porches, floating hose porches
- 3. Offshore Installation support, engineering and procedures



RISERS, UMBILICALS & MOORING

