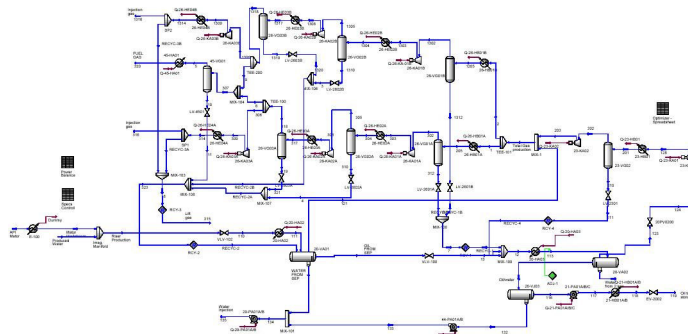


Mator News

3/2006

Mator AS – the separation specialist

Process design for FPSO and heavy oil - special considerations required



Process design and simulation of FPSO process plant by use of HYSYS

Mator has been involved in several projects regarding **design of separation processes for FPSO and heavy oil production (< API 20)**. Both areas require specialist competence.

Special considerations with regards to **heavy oil production** could be:

- increased temperature to aid oil/water separation
- heat balance consideration
- challenging production chemistry aspects
- increased separation retention time
- phase inversion point consideration
- robust electrostatic coalescers to fulfill export quality

Special considerations with regards to **FPSO** could be:

- robust design to handle a variety of fluids
- motion effects on separation
- limited space
- interface with maritime systems

Mator has operational experience from FPSOs and heavy oil production from many parts of the world. This experience has been of great value in process design projects.

Recent Mator projects:

- ◆ **Addax Adanga North:** characterization test of heavy oil satellite to FPSO.
- ◆ **Statoil Snorre/Vigdis:** verify scrubbers liquid carry-over by tracer testing.
- ◆ **ConocoPhillips:** Ekofisk 2/4J produced water troubleshooting.
- ◆ **Norsk Hydro Grane:** separators performance before/after jetting.
- ◆ **Teekay FPSO:** Process design evaluation for heavy oil process.

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