Project description
System overview
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Conclusions
Astaa Hansteen
Why TCP Downline?

- Superior fatigue
  - Qualified for 180 deployments
  - Longest design life
  - De-risking schedule

- High flowrate
  - Effective precommissioning & well stimulation

- Collapse resistant, clean

- Light-weight
  - Easy to handle
System overview: Flexible Overboarding System
TCP Downline & Jumper

- Single length free hanging downline
- Flexible jumper for heave compensation
Deployment & operation

- **Single length free hanging downline**
  - Fast running – full length to max water depth 1000 meters per hour
  - No offset requirement – combination with wireline intervention
  - No spooling out requirement as with steel CT
  - No pre-tension – no spring effect
  - 19 deployments on one project to 1300 meter water depth

- **Flexible jumper for heave compensation**
  - Only jumper combining collapse resistance with smooth bore and flexibility
  - Can be terminated in the field
Operation on Seven Viking
“On behalf of Subsea 7 and the Aasta Hansteen project we would like to thank you for the high-end product, 2.5”” TCP Downline, Airborne have delivered to IKM Testing and Subsea 7.

The marine operations for 2016 on the Aasta Hansteen project is now completed, including the tie-in and RFO campaign at 1300m water depth, where the 2.5”” TCP Downline have proven to be a great success.

In particular, the offshore and onshore personnel would like to highlight the following:
- The products light weight, the ease of handling and the external pressure resistance capability makes it the preferred alternative for Subsea 7, both technically and operationally.
- Lightweight and robustness of the product allows quick deployments / recoveries for this particular water depths compared with conventional downline systems.”
Thank you