SUBSEA LAUNCHING INTO LIVE GAS PIPELINES

Challenges and Functional Requirements

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In association with
IKM Testing AS
and
Pigging Products and Services Association
Content

1. Launching methods
2. Launcher General Layout and Functional Requirements;
3. Dynamic pigging model for gas pipelines;
4. Case study 1: Pressure equalisation;
5. Case study 2: Dual diameter line;
6. Over to IKM…
Methods of launching

1. Downline...
   Nitrogen or MEG downline;

2. Using gas from well or from production.
Complex dynamic models

Subsea launcher design

Scheduling, flow assurance

Training, verify procedures
Case 1: Pressure Equalisation

Should the kicker valves be open or closed during equalisation of pressure?
Case 1: Simulation output

Kicker lines closed during equalisation.

Kicker lines open during equalisation.

Time (hours)
Case 2: Dual diameter line

Assess correct procedure
Two ways of launching

1. Keep kicker lines open

2. Open kicker behind each pig
Case 2: Output

Motion of second pig - Better to keep the kicker lines open
Thank you...

And now for IKM Testing AS...