**PSE OIL & GAS SEMINAR SERIES**

# Best practice pressure relief, blowdown and flare system assessment

DATE:
15 July 2015

LOCATION:
Le Germain Hotel
899 Centre Street SW
Calgary, AB T2G 1B8
Canada

Evolving industry guidelines are changing the way Oil & Gas companies approach process safety in pressure relief, blowdown and flare systems. Best practice now increasingly puts high-fidelity dynamic modelling techniques at the centre of materials of construction decisions and flare capacity assessments.

As leaders in dynamic analysis, PSE hosts public, half-day seminars to improve understanding of this area. These seminars are held as part of our worldwide PSE Oil & Gas seminar series. The seminars explain the importance of high-fidelity modelling approaches, when they should be applied and how they fit in with engineering workflows and industry guidelines (such as API 521).

In our workshops we assess the impact of design decisions on the safety of pressure relief, blowdown and flare systems for a number of brownfield and greenfield case studies. We explore risk factors, explain the importance of key physical phenomena and identify mitigation strategies to keep capital expenditure down whilst ensuring safe operation.

Register soon. Seating is limited.

"Materials exposed to temperatures below the specified minimum design temperature may suffer permanent damage or brittle failure, depending on the mechanical stresses present in areas subjected to low temperatures"

API 521 6ED.

WHO SHOULD ATTEND

The seminar will be of use to Oil & Gas engineers, especially those with safety / depressurisation experience or remit, dynamic modelling experts and managers with responsibility for asset and plant integrity.

## Calgary agenda

The free seminar includes lunch and refreshments.

**08:30** **Registration**

**09:00** **Session 1 - Pressure relief, blowdown and flare systems: guidelines and analysis**

- Pressure relief, blowdown and flare system integrity
- API 521 6th edition changes and analysis requirements
- PSE Oil & Gas and gFLARE

**09:30** **Session 2 - Low temperature assessment during system blowdown**

- Low temperature assessment
- Process blowdown: single vessel analysis
- Process blowdown: actual plant segment analysis
  - High pressure compressor
  - Finger type slug catcher
  - Low temperature separator
  - Gas sweetening unit
- Case study: Reduced capital expenditure in the design of a high pressure gas plant

**11:00** **Break**

**11:20** **Session 3 - Full facility modeling for accurate pressure relief & blowdown assessment**

- Flare system design criteria
- Conventional analysis
- Dynamic flare system analysis
  - Case study 1: Cold depressurization of a gas processing facility
  - Case study 2: Flare capacity gas plant blowdown
  - Case study 3: Staggered blowdown on an Oil & Gas platform
  - Case study 4: Blocked outlet on a gas processing facility

**12:30** **Lunch**

For more information or to register, visit:

psenterprise.com/oilandgas/seminars