

# Application Article 205

Version 1.0 8 September 2009

## GasCheck tests offshore pipeline leakages

**Product:** GasCheck 5000is

**Industry:** Oil and Gas

**Application:** Testing pipeline leaks on offshore oil rigs Customer: PSL Energy Services

### Introduction

GasCheck 5000is was recently selected by PSL Energy Services to test pipeline leakages of major oil and gas companies. Based in Singapore, PSL are a leading provider of wells, pipeline, and process services for global customers including Shell, BP, Exxon Mobil, HHI, Keppel and Daewoo.

### Why GasCheck 5000is Was Chosen

Chosen to replace PSL's previous gas detection technology, GasCheck 5000is provided proven key advantages in terms of speed and accuracy. Whilst PSL's previous instrumentation took up to 5 minutes to produce a result, the GasCheck 5000is gives fast, precise readings for the smallest of leaks.

PSL's previous instrument also required a number of sample cables and was found to be 'bulky' in size, unlike the lightweight, portable GasCheck 5000is.

### The Testing Process

During offshore leak test procedures, the oil stream is shut off and the lines purged with a helium and nitrogen mix. The joints and flanges are then sealed using polythene bags. After waiting for a short period of time, the GasCheck nozzle is placed into the bag to take a reading. GasCheck 5000is provides the operator with a fast, accurate result of the leak concentration present.

### Features & Benefits Of GasCheck 5000is

- Accurate detection of almost any gas - detects any gas different to air
- Micro thermal conductivity sensor easily detects the smallest of leak
- Provides rapid response times
- Conveniently calibrated against helium – the most commonly used tracer gas
- Particularly sensitive to ammonia, argon, butane, hydrogen, SF6, and refrigerants
- Intrinsically safe / safe detection of flammable gases
- Performs repeatable readings - choice of readings in ppm or ml/sec
- Advanced software features
- Data logging and download capability for easy analysis
- Hand held, easy to use instrument
- Large back lit display for clear readings



*GasCheck 5000is being used to leak test machinery at PSL Energy Services, Singapore*



For more information contact Ion Science:

E-mail: [info@ionscience.com](mailto:info@ionscience.com)

[www.ionscience.com](http://www.ionscience.com)