

# SUB-SEA PIPELINE LEAK DETECTION



## APPLICATIONS

- Detection of leaks in pipelines and sub-sea installations
- Dye tracing using AGMA EP1186, fluorescein and Rhodamine
- Hydrocarbon detection
- In-situ oil in water monitoring
- Hydrothermal vent studies

*Leading leak detection  
system for over  
22 years*



## FEATURES

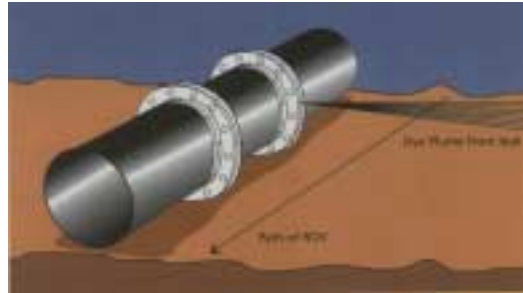
- Rapid mobilization world-wide
- High fluorescence sensitivity & good background rejection give excellent detection sensitivity
- Good long term calibration stability
- Lower power consumption
- Operationally robust
- Deployable from ROVs, profiled, towed or diver held
- Operational to ocean depths
- More than 22 years proven track record

# THE PROVEN SOLUTION TO YOUR SUB-SEA PIPELINE LEAK DETECTION PROBLEMS

## Highly reliable leak detection system

The highly reliable Sub-Sea Pipeline Leak Detection System has an impressive track record since 1983, of providing a quick and cost-effective method of detecting leaks for the oil & gas industries. The system can be used during the commissioning of new pipelines or for detecting leaks in operational pipelines.

The pipeline leak detection system finds leaks in sub-sea pipelines by sensing the fluorescence of leaking hydrocarbons or, for pipeline commissioning, by introducing fluorescent dyes (such as Rhodamine, Fluorescein or Agma EP1186/MIS). The system is extremely sensitive and is capable of detecting leaks at levels as low as 1 ppm in sea water.



Dye-plume leaking from pipeline flange

## Deployment

The Sub-sea Pipeline Leak Detection System works to full ocean depths. Leaks are found by tracking the pipeline with the leak detection system using an ROV, AUV, towed vehicle or hand held by a diver.

## Rapid world-wide availability with experienced Chelsea operators

The Sub-sea Leak Detection System is available for hire with one of our experienced operators. Chelsea Technologies Group can respond to companies who require rapid deployment of the system and personnel. We can mobilise at short notice, usually within 24 hours, and the hardware has been designed to be transported by air with the operating technicians.



Deployment from ROV, AUV, vehicles & diver held.

## Interpretation of data

Data from the Pipeline Leak Detection System is transmitted directly to a computer on board the attendant vessel where one of Chelsea Technologies' highly experienced operators analyses and interprets the data in real-time. The data can also be recorded for subsequent analysis.



ROV & leak detection operators in control centre

## Detection of leaks in hydraulic fluid pipelines



Chelsea Technologies Group has developed and supplied leak detection systems specially tuned for fluorescent tracers in Production Control fluids. These have been deployed to detect leaks in the North Sea, Gulf of Mexico, Brazil and Asia Pacific.

Detection of other control fluids and injection chemicals can also be accommodated (details on request).



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