

EFFECTIVE LEAK PREVENTION FOR PIPELINE VAULTS

OIL & GAS INDUSTRY

AT A GLANCE

An Alaska pipeline operator eliminated the challenge of monitoring in remote locations with a Smart Pipe solution that uses easy to install, intelligent sensors that require virtually zero additional infrastructure.



CHALLENGES

01. Below ground vaults present a unique challenge; the valves perform critical functions for safe operations, they also create an added risk of leaks in the flanges or valves.

02. Detecting these leaks isn't straightforward; operators must go onsite and open the vault. Since the vaults are far apart and often remote, time is spent driving to each location.

03. Seepage or minor leaks can be hard to spot, as small amounts of product may drain away or form a film on any standing water in the vault.

04. A leak that goes undetected may cause a vault to gather 5500 cubic meters of substances, causing environmental pollution and leads to clean-up costs and regulatory fines.

KEY METRICS



\$10-100M CAD

Saved in expensive clean-up costs.



24/7 Detection

Hydrocarbon Leak detection in challenging environment.

SOLUTION

- » Smart Pipe monitoring was installed on critical components in the operator's vaults.
- » Without power or communications in the vaults (a prohibitive cost in remote locations) the solution is self-contained with battery power and internal modems.
- » Highly sensitive smart monitoring detected seepage of a few dozen millilitres of product. The pipe was promptly repaired, which could have easily been overlooked in a routine inspection.

BENEFITS



Enhanced prevention against major leaks and recovery costs.



Stops major environmental harms caused by petrochemical leaks.



Cuts inspection costs to a fraction of what they were before.

The data provided is based on customer feedback regarding the use of our IIoT solution in specific scenarios. While we strive for accuracy, results may vary based on individual circumstances.