



INO Technologies Assessment of Leak Detection Systems for Hazardous Liquid Pipelines

DTPH56-13-T-000003

PHMSA ACCOMPLISHMENTS

Pipeline and
Hazardous
Materials Safety
Administration

Pipeline Safety
Research and
Development

Technology
Development
for
Improved
Leak Detection

Project Abstract

Current leak detection systems for pipelines are not only unreliable in the detection of minute leaks, but often expensive and/or dangerous to run. This is an unacceptable standard for pipeline operators and leak detection service providers. Electricore, Inc. and National Optics Institute (INO) with support from TransCanada and National Scientific Research Institute (INRS/RDDC) developed a transportable leak detection system (LDS) which can externally locate, identify, and assess small liquid and gaseous leaks (weeper/seepers) from a safe standoff distance.

PHMSA Funding: \$551,388

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Commercial Partner

FlyScan Systems, Inc.
<http://www.flyscan.com/en/>

Picture Courtesy FlyScan

NET Improvement

The research provided development and data collection on a transportable leak detection system. The program demonstrated the ability to externally locate, identify, and assess small liquid and gaseous leaks (weepers/seepers) from a safe standoff distance. The confidence gained from the research project enabled the launch of FlyScan, which detects volatile compounds using a spectroscopic lidar.

**US Patent under DOT
Contract: N/A**

