



Advanced Development of PipeGuard Proactive Pipeline Damage Prevention System

DTPH56-10-T-000019

PHMSA ACCOMPLISHMENTS

Pipeline and
Hazardous
Materials Safety
Administration

Pipeline Safety
Research and
Development

Technology
Development
for
Improved
Threat
Prevention

Project Abstract

To develop a pre-commercial proactive in-ground warning system that uses advanced security technology to warn against encroachment to transmission and DISTRIBUTION lines. PipeGuard™, is an acoustic/geophone-based system designed to provide an early warning to operators when an excavating event occurs in the vicinity of a buried pipeline. This technology will enable gas companies to reduce the need for certain physical on-site surveys and improve pipeline safety.

PHMSA Funding: \$ 268,492

Public Project Page
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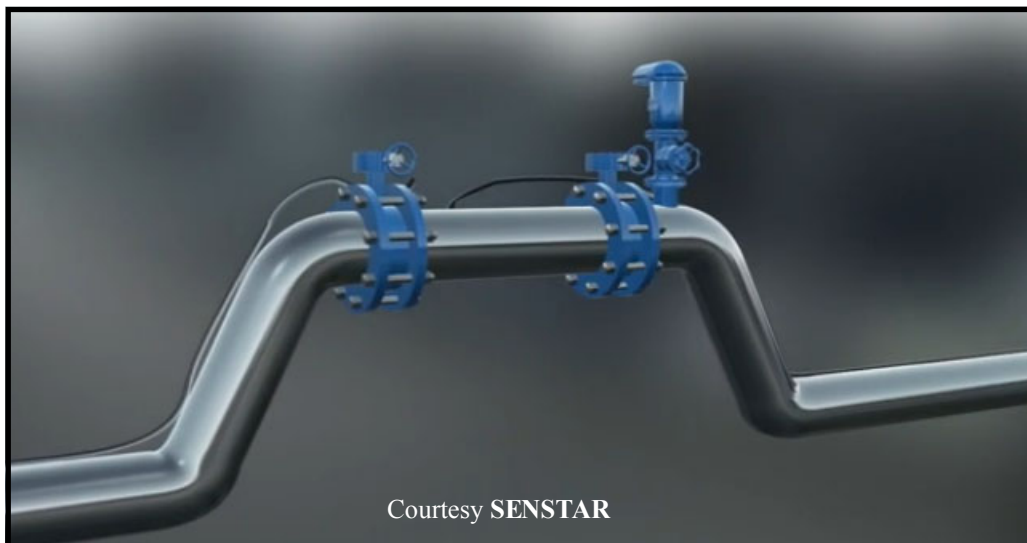
NET Improvement

This project improved the Senstar FiberLR Pipeline Protection Sensor System that can provide protection over up to 48 km (30 mi.) via a cable buried beside the pipeline. FiberLR detects manual or machine digging whether from intruders intent on damaging the pipeline or accidentally digging near the pipelines. Field testing improved algorithm accuracy which reduce false positives and operational costs to deploy.

US Patent under DOT Contract:
N/A

Commercial Partner

SENSTAR
<http://senstar.com/>



Courtesy SENSTAR