



# Broadband Electromagnetic Technology Sensor to Assess Ferrous Pipes without Removing Coatings in Both Traditional and Keyhole Excavations

DTPH56-08-T-000024

## PHMSA ACCOMPLISHMENTS

Pipeline and Hazardous Materials Safety Administration

Pipeline Safety Research and Development

Technology Development for Improved Anomaly Detection & Characterization

### Project Abstract

Broadband Electromagnetic (BEM) technology is a portable tool that can be used in both keyhole and traditional excavations to conduct pipeline direct assessment without coating removal. The project completed final enhancements to the BEM system and perform field evaluations to validate its capability and bring it to US market. The developed BEM system is a new direct assessment tool that can enhance pipeline integrity, operational reliability and efficiency of the national distribution and transmission pipelines.

PHMSA Funding: \$293,403

Public Project Page  
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Courtesy : Rocksolidgroup

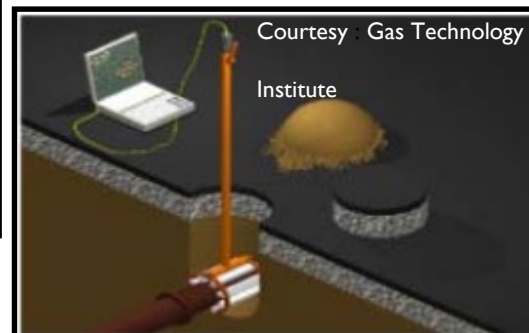
### NET Improvement

Rock Solid's patented technology was integrated with an automatic positioning system of accurately set sensors for recording readings around a pipe while scanning through coatings or surface corrosion products or adhered soils. The recording and positioning system is controlled by means of a Windows based software program which also allows for real-time on-screen scan results display. In addition to this, the available sensor size was reduced from 2" to 1" allowing more detailed scanning to be undertaken.

US Patent under DOT  
Contract: N/A

### Commercial Partner

Rock Solid Group Pty Ltd  
[www.rocksolidgroup.com](http://www.rocksolidgroup.com)



Courtesy : Gas Technology Institute