



# Improve and Develop ILI Tools to Locate, Size and Quantify Complex/Interacting Metal Loss Features

DTPH56-13-T-000009L

## PHMSA ACCOMPLISHMENTS

Pipeline and Hazardous Materials Safety Administration

Pipeline Safety Research and Development

Technology Development for Improved Anomaly Detection & Characterization

### Project Abstract

The project was aimed to address the remaining problems with in-line inspection (ILI) and integrity assessment of metal loss defects. This project was conducted by Kiefner and TDW using newly developed ILI technology and the anomalies identified by ILI and validated by field excavations. The improvement of ILI data interpretation will allow operators to distinguish between anomalies that require remediation and those that can be monitored over time.

PHMSA Funding: \$754,000

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### NET Improvement

As a result of the research, improvements with distinguishing dents with metal loss from dents with gouges and plain dents were incorporated into TDW's Mechanical Damage Prioritization Process. The research output enhanced the mechanical damage prioritization process by using multiple magnetic fields and field angles to distinguish a gouge from metal loss in a dent, as well as from a plain dent.

US Patent under DOT

Contract: N/A

### Commercial Partner

T D Williamson, Inc.

<http://www.tdwilliamson.com/>



Picture Courtesy TDW