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.

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.

**PHMSA Funding:** $754,000

**Public Project Page**
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**Commercial Partner**
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**Picture Courtesy TDW**