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**Composite Repairs**  
**PHMSA R&D Forum**

**Anomaly Remediation Repair Track Session**  
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# Composite Repair System

## ^ Why Use Composite Repair

- Easy to install
- No size, shape restriction
- Readily Available
- Tested Products
  - Vendor Testing
  - Operator Review/Testing

# Composite Repair System

## ⤴ Why is it more popular now

- More repairs due to Pipeline Integrity Rule
  - Scheduled Inspection and Maintenance
  - Required Re-Inspections
- Codes & Standards recognize composite repairs as alternative methods

# Composite Repair System

- ^ Code requires to use “....reliable engineering tests and analyses....”
- ^ Operators Quandary
  - Lot of vendors perform Testing. Who is right?
  - Any common grounds for testing
  - Any common basis for comparison
    - Gas & Liquid Pipelines
  - Guidance on repair system evaluation
    - Coating, UV, CP interference, ILI recognition, water and harsh environment
  - Composites are not mentioned in the code but recognized as alternate repairs
  - Is Clock Spring the only repair approved by DOT