

REINHOLD ENVIRONMENTAL[®]



2026 Reinhold/PCUG Round Table Presentation

Hosted by TVA, Southern Company and Vistra
in the Sonesta Nashville Airport Hotel, Nashville, TN
on June 22-23, 2026

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2026 REINHOLD/PCUG CONFERENCE

Discussion Group I “Fiberglass Stack Liners & Headers”

Moderators:

Tom Kaforey

American Electric Power

Jeff Eisenman

Maverick Applied Science, Inc.



“We Build Confidence in FRP”



Changing Times – Let's Go!

Maximizing Longevity of FRP in our FGD Units.

- Extend Run Life
- Maximize Reliability
- Minimize Unplanned Outages

HOW DO WE DO THAT?? WHAT DO WE KNOW??

"We Build Confidence in FRP"

Chimney Liner Inspections



"We Build Confidence in FRP"

FRP Chimney Liner Inspections

Breach connection - cracks



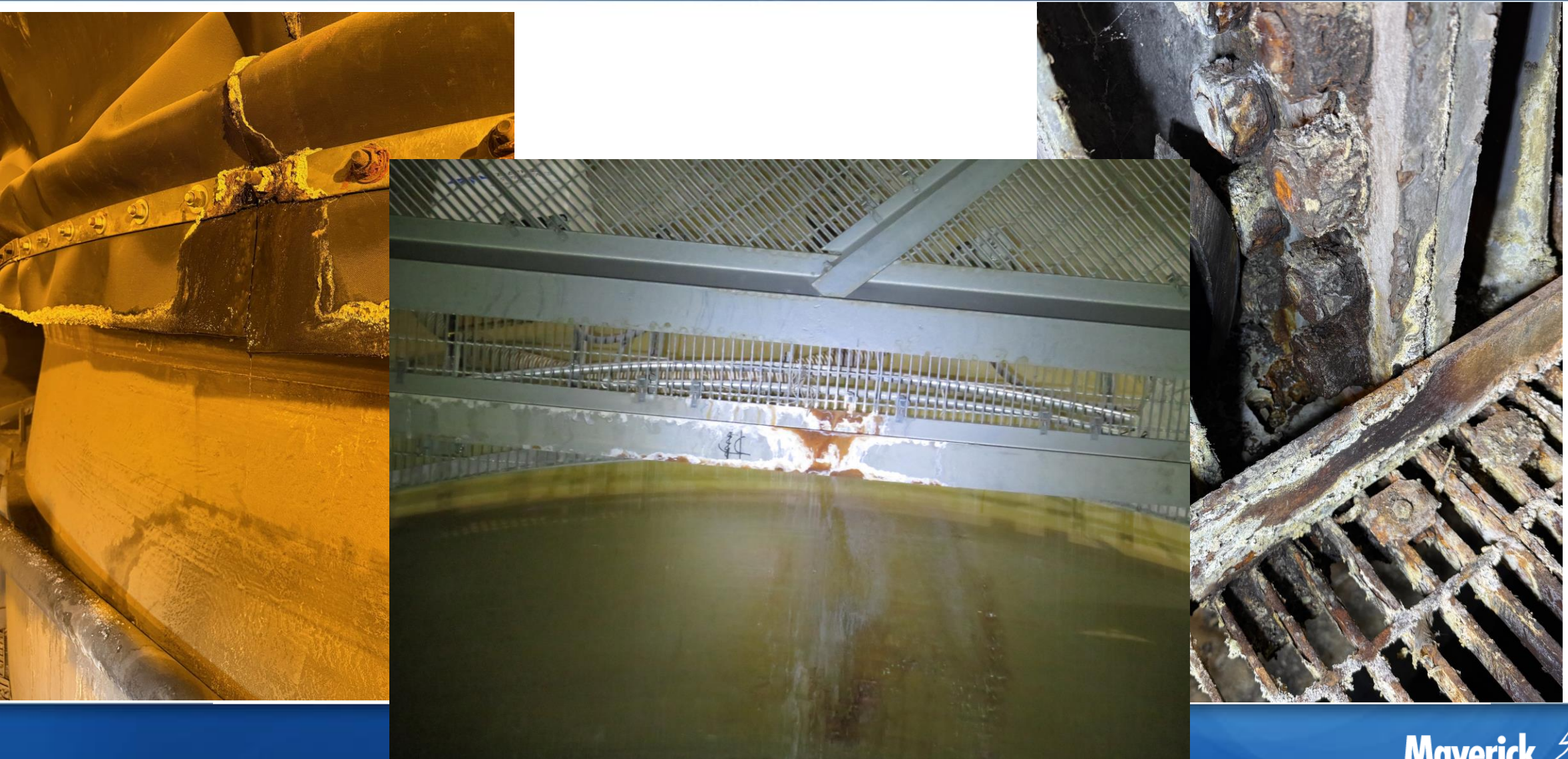
"We Build Confidence in FRP"

FRP Chimney Liner - Maintenance

Drain Collection System



FRP Chimney Liner - Structures



"We Build Confidence in FRP"

Spray Header Replacement



"We Build Confidence in FRP"

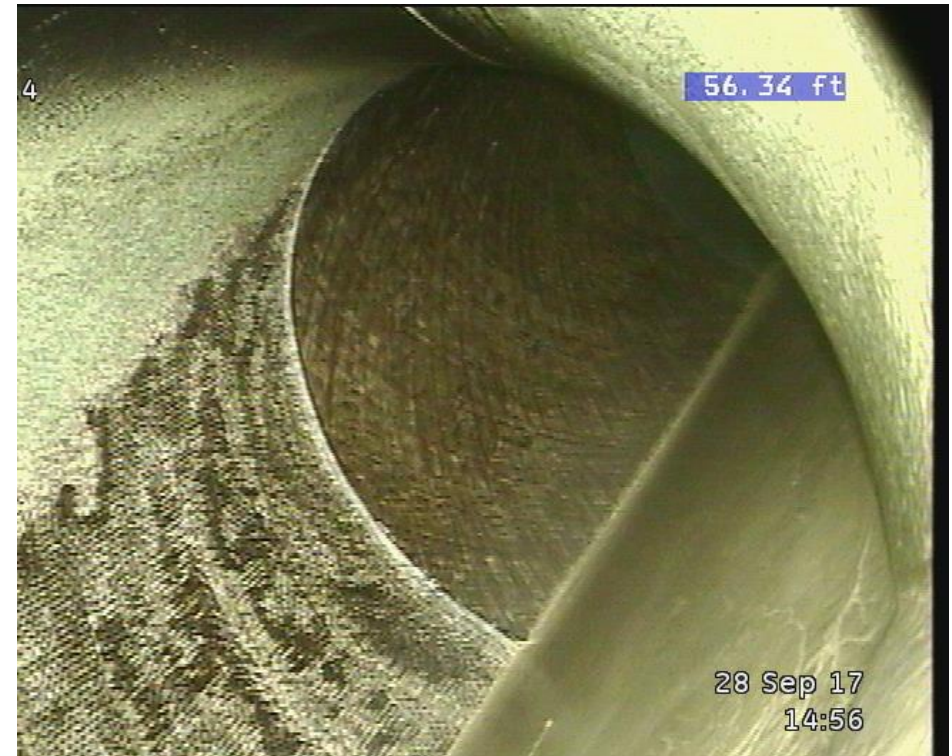
Applications – Process Piping



"We Build Confidence in FRP"

Nondestructive Testing - Boroscope

Boroscope provides a level of clarity and reliability that can't be achieved with other NDT.



Destructive Testing

Why do destructive testing?

- Variability of Thicknesses in FRP Pipe and Fittings
- Multiple materials of construction
- These concerns create difficulties for UT
- As an example, An FRP Elbow:
 - Intrados Wall Thk = 0.990"
 - Intrados Corrosion Barrier = 0.284"
 - Extrados Wall Thk = 0.805"
 - Extrados Corrosion Barrier = 0.197"



UT requires a representative sample, the variability creates a problem.

Corrective Measures and Maximizing Reliability

- Repair Procedures
- Updated Specifications
- Engineering Investigation
 - Engineering Review
 - Independent Analysis
- Site Inspections
 - In-Process Performance Assessment
 - Non-Destructive Examination
- Destructive Testing



Condition Assessment and Performance Evaluation are Essential for Reliability!

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