



Item 12: Gas Pipeline Safety and Integrity Research to Support Decarbonization – GFO-22-503

August 9, 2023 Business Meeting

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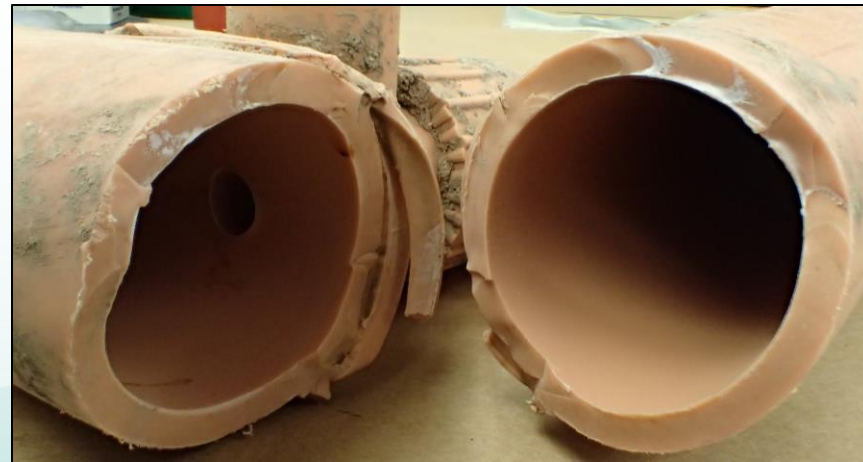


Benefit to Californians

- Increase safety
- Reduce methane emissions
- Support ratepayer affordability
- Inform gas transition



Source: PG&E/Infraterra



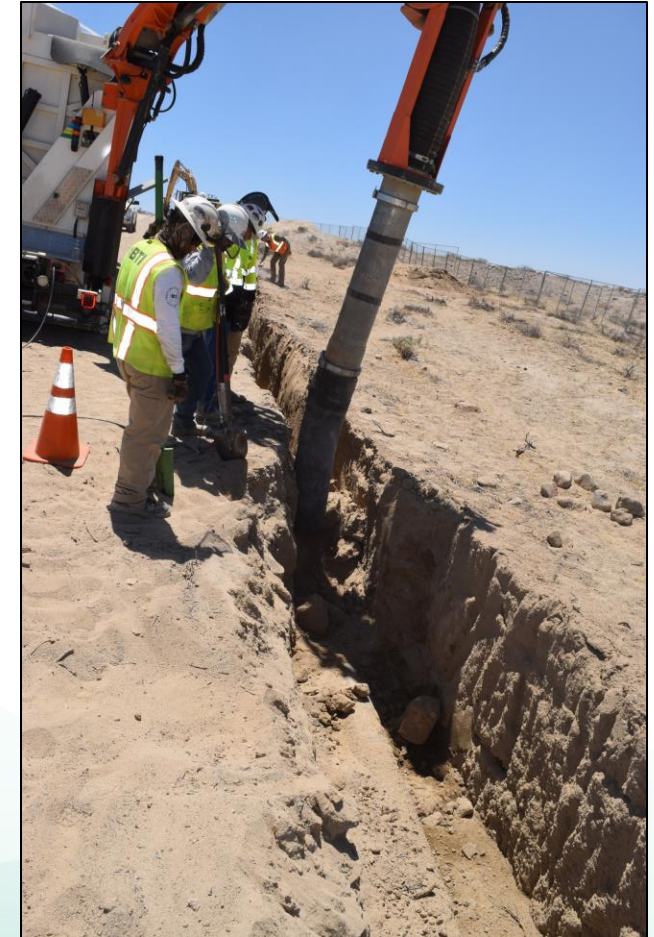
Source: GTI Energy



The Regents of the University of California, Los Angeles

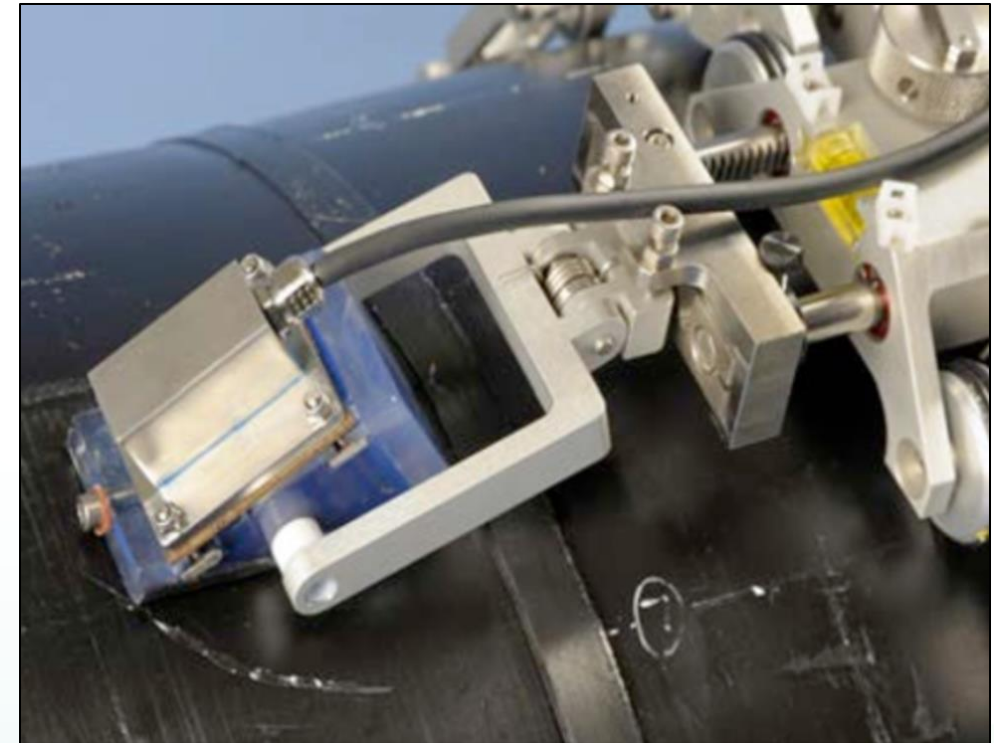


- Integrate remote and embedded sensors:
 - Satellite
 - Light Detection and ranging
 - Low-Cost accelerometers
 - Fiber optics
- Software to predict pipeline failure due to natural force damages
- Inform utility decision-making and risk mitigation



Source: D.G. Honegger Consulting

- Validate non-destructive evaluation (NDE) for plastic pipe defect inspection
- Aggregate NDE and historic data to generate risk models
- Refine integrity management framework to inform cost-effective mitigation strategies



Source: GTI Energy



Staff Recommendation

- Adopt staff's determination that the project is exempt from CEQA.
- Approve grant agreements.