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REVOLUTIONISING LEAK MANAGEMENT Leveraging State-of-the-Art Technology

Stephen M. Redding, Sr. Pacific Gas and Electric Company (PG&E)



Background—Company Overview



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6,750 miles transmission pipeline

APPROXIMATELY 84,000 miles distribution main and service pipe

970 BCF delivered/year

4.3 million natural gas customer accounts

Background—Situation

Aging distribution infrastructure



~2.1 million miles of distribution infrastructure

ATES OF AMERICA



Background—Picarro Surveyor

Revolutionary Leak Management Solution

PPB vs PPM

1,000x more sensitive

Clearly and accurately identifies leak locations

2.5x faster survey

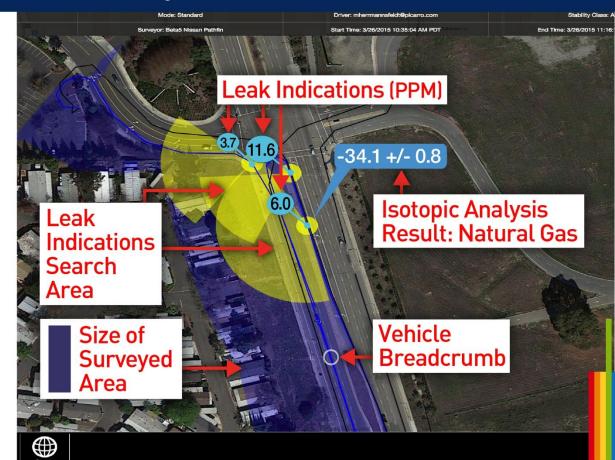


Distinguishes natural gas from biogenic methane

Background—Picarro Surveyor









Develop a new, dynamic, end-to-end leak management process that:

finds and fixes increases operational efficiencies



How did we get there?

Leak Survey Technology: 2012–13 Field Tests + Studies + Pilots

2 Leak Repair Process: Develop SUPER CREW

2013–14

Enhanced Leak Management Process Effectiveness

12 months PREVIOUS MODEL VS 1 month SUPER CREW



MORE THAN FEWER HOURS PER UNIT



Initiate SUPER CREW Model deployment system-wide

2015

The Enhanced Leak Management Operating Model





Integrated technology into the revolutionised leak management process (**SUPER CREW**):

enhances + reduces + strengthens safety environmental public impact - confidence

Thank you

Stephen M. Redding, Sr.

