



To: Stakeholders in the Oil and Gas Industry

From: Daniel Zimmerle, PI, METEC

RE: Request to participate in OGI leak detection baseline data collection

CSU is working with the EPA to characterize the performance of optical gas imaging (OGI) for detecting leaks at natural gas facilities. The purpose of this testing is to provide a quantitative baseline which can be used to demonstrate the equivalency of new leak detection methods with regulatory-approved OGI screening methods. While OGI has been previously studied, there has been no quantitative assessment of the method combining human factors, equipment, weather, and practical protocol differences.

CSU requests that **you send one or more LDAR camera operators to our site for 1-3 days within the dates below to contribute to this study.** We will configure METEC multiple times per day with different leak and planned emission patterns. Each camera operator will follow *their company's protocol* to screen for leaks, noting data about distance and conditions of each detection. **All data collected will be anonymized.** All testing for the study will be complete in October 2018 and result in a report and journal publication.

The test protocol (EPA QT18005_01) is attached to this message. Key points are:

- 1) Operators will follow their own protocol *and use their own camera equipment* to include hardware and protocol differences in the testing.
- 2) Except for contact information and site access agreement, no prior preparation is required.
- 3) Screening will occur even if wind conditions are outside of normal protocol parameters to capture full range of detection capability.
- 4) Screening will be discontinued if conditions are unsafe.
- 5) If possible, we will pair each camera operator with a note taker to record information.
- 6) This study is focused on facilities of comparable complexity to the well pad sites at METEC. Subsequent work may extend to other facility types.
- 7) We have completed 9 days of testing to date, including teams from operators, contractors, regulators and technology providers.
- 8) Participants are responsible for their travel costs and personnel time.

We prefer to host 3 operators per day, from any mix of companies. We can support up to 5 days of testing per week. Companies can send more than one person, but we prefer that each camera operator bring their own camera.

Testing weeks are spread in time to maximize the probability of variable weather:

- **30 July – 3 August**
- **20 – 24 August**
- **10 – 12 September**

Operator teams may “sign up” for any days during any week. We will limit the number of teams per day. Part days are possible with prior communication to METEC staff.

To sign up, we need:

- **Operator contact info**
- **Preferred dates**
- **Signed simple site access agreement for being onsite (attached).**

Thank you in advance for participating in this important study. We can arrange calls to answer questions, as desired. Contact:

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Sincerely,



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