

ENSURING SAFETY & COMPLIANCE

Safeguarding facilities with reliable infrared camera detection

Kiely Engineering performs full-service engineering, design, and project management services with a commitment to delivering successful projects on time, on budget, and on expectation. Ranked an ENR 500 and 600 company, our design-build services provide a unique approach, combining a blend of technical innovation, advanced client support, and personal integrity to every project.

In addition to our traditional engineering, design, and project management solutions, Kiely Engineering provides exceptional and unique value-added services for our customers, designed to safeguard customer assets and ensure their compliance with federal, state, and local agencies. Our Fugitive Emissions Solutions utilize best-in-class and highly accurate optical gas imaging technology, with the ability to detect the smallest of hydrocarbon and volatile organic compound (VOC) leaks.

Our Fugitive Emissions Solutions provide customers the ability to detect potential gas leaks from thousands of components in real-time, ensuring the health and safety of customers, their plants, and the environment.

Pipeline Regulation Compliance

In 2016, the U.S. Environmental Protection Agency published a final rule titled, "Oil and Natural Gas Sector: Emission Standards for New, Reconstructed, and Modified Sources" located at 40 CFR part 60, subpart OOOOa, commonly known as "Quad Oa."

Final amendments were published in late 2020. The rule sets the standards for monitoring frequencies, repair requirements, and reporting standards for reducing emissions of greenhouse gases (GHG), in the form of limitations on methane, and VOC from the oil and natural gas sources constructed, modified, or reconstructed after September 15, 2015.

We understand the strict and dynamic regulations in the oil and gas industry, and are dedicated to ensuring our customers maintain compliance.



Ensuring Safety, Environmental Stewardship, and Revenue

Our team of certified engineers provide monitoring plans, recordkeeping, and reporting to adhere to the fugitive emissions requirements. The Optical Gas Imaging technology our team utilizes is recognized as the Best System for Emissions Reduction (BSER) within “Quad Oa.”

Unwanted leaks contribute to greenhouse gas emissions, increase the risk of fire and explosion, and can be time consuming and costly to fix. Proactively mitigating fugitive emissions not only protects your business, facilities, neighboring communities, and the environment, it also impacts human health and environmental safety risks. An effective LDAR program prevents the risk of regulatory violations, fines, and lost revenue.

Utilizing infrared technology, Kiely can help visibly detect methane and VOC leaks in a quick, accurate, and safe manner, without having to shut down operations. Most equipment leaks occur at valves, flanges, seals, sample connections, and fittings, which allows our customers to quickly remedy risks on site. During the scanning and measurement process, our team documents and records any leaks detected. We keep the data and documentation centralized with description of the leak, inventory of equipment with photograph image and embedded GPS coordinates, and repair at time of visit, if applicable.



Innovative Technology

Using Kiely’s handheld Optical Gas Imaging camera, gas leaks can be detected in real time by scanning every pipeline component. The camera uses high resolution infrared technology and thermal sensitivity to detect the smallest of leaks, and measures temperatures up to 662°F with $\pm 1.8^\circ\text{F}$ accuracy. This allows us to note temperature differentials and improve gas plume detection.

Customers can see clear images of leaks and pinpoint the source for repairs. Optical Gas Imaging provides leak detection on pipeline equipment, flare analysis for burn efficiency, and liquid tank level diagnosis. This can be completed faster than traditional methods from a safe observing distance.

Kiely Engineering performs our services with vision, innovation, integrity and excellence, responding to our customer’s unique requirements to deliver success for both our customers and their stakeholders.

We are up to date on all current regulatory requirements. By providing qualified engineers that are highly trained with our equipment and reporting systems, you can be confident that your company is executing your LDAR program in a safe, environmentally conscious, and cost effective manner.

To get started safeguarding your critical pipeline infrastructure from fugitive emissions, contact Kiely today.

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