

## SERVICE OFFERING

# LONG-TERM FLARE MONITORING

### HIGHLIGHTS

Since 2015, new EPA regulations involving flares have required continuous monitoring of flare performance through a surrogate parameter called Combustion Zone Net Heating Value (NHVcz) or NHV dilution parameter (NHVdil). Providence Photonics offers long-term turn-key flare monitoring services using its Mantis Lite™ flare monitor to demonstrate compliance. The Mantis Lite™ flare monitor utilizes the Simplified VISR method identified in the promulgation of the NSPS OOOOb/ OOOOc regulations. Contract terms of one, two and three years are available with monthly or quarterly payments.

### RELEVANT EPA REGULATIONS

As of March 2024, the following EPA regulations require flare monitoring. Similar requirements are expected in future regulations.

- 40 CFR Part 60, Subpart OOOOb and OOOOc – New Source Performance Standards (NSPS) and Emission Guidelines for Oil and Gas Sector
- 40 CFR Part 63, Subpart YY – National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories: Generic MACT Standards
- 40 CFR Part 63, Subpart CC – NESHAP for Petroleum Refineries

### BENEFITS

- Turn-key service!
- Non-contact remote sensing instrument – no process interruption for installation, no damage due to corrosive process streams, high system reliability.
- “All-in-One” device that can replace monitors for presence of pilot flame, visible emissions, and flaring rate.
- Significantly lower cost when compared to methods prescribed in the regulation.
- Credit for lower GHG emissions per EPA proposed changes to the GHG reporting rule (40 CFR 98 Subpart W).
- Significant savings in Waste Emission Charge (WEC), up to ~\$350,000 per year for a large flare (e.g., 950 Mcf/d), if the facility has WEC obligation.
- “Low hanging fruit” in WEC reduction through “netting” in the EPA proposed WEC rule.



### SERVICES PERFORMED

- Equipment (Mantis Lite™, equipment panel, mounting bracket, and accessories as needed)
- Installation and commissioning
- Quarterly site visits and ongoing maintenance
- Assistance in preparation of EPA request for alternative method, if applicable
- Assistance in preparation of a monitoring plan, if applicable
- Preparation of quarterly and annual reporting, as required
- Guaranteed uptime, including hot-swap equipment replacement as needed
- Minimal site preparation required (120V 15A power, line of sight to flare)

### Flare efficiency allowed in the proposed Subpart W

92%	95%	98%
No monitoring	If flare meets NSPS OOOOb	If NHVcz / NHVdil is continuously monitored
	<b>37.5% REDUCTION</b>	<b>75% REDUCTION</b>

For price quote, contact Providence Photonics

[www.providencephotonics.com](http://www.providencephotonics.com)

+1 833 746 8664

[sales@providencephotonics.com](mailto:sales@providencephotonics.com)

