Approved Instrument Monitoring Method (AIMM) Review Request Form

The Air Pollution Control Division (Division) developed this Review Request Form for Division evaluation of a proposed approved instrument monitoring method (AIMM), besides an infrared (IR) camera or EPA Method 21, for hydrocarbon leak detection as defined in AIR Quality Control Commission (AQCC) Regulation No. 7 §XVII.A.2. Please note that the Division will not consider a proposed AIMM until it is has moved past the development, testing or prototype phase and is available for commercial use/application and has repeatable proven or demonstrated success in the field in hydrocarbon leak detection. Also note that a field demonstration of a proposed AIMM may be required, which should be arranged by the AIMM requestor if necessary.

Submital Date: ______________________

Section 1 – AIMM Manufacturer Information

Company Name: ____________________________________________
Mailing Address: ____________________________________________
Person To Contact: ____________________________________________
Phone Number: ____________________________________________
Email Address: ____________________________________________

Will the proposed AIMM be offered for sale, rental, or contracted service (please specify all)?
☐ Sale ☐ Rental ☐ Contracted Service

Section 2 – Monitoring Method Information

Name of AIMM:

This AIMM is proposed as a: ☐ Quantitative leak detection method ☐ Qualitative leak detection method¹
This AIMM is used as a: ☐ Mobile/handheld leak detection system ☐ Stationary leak detection system
For mobile or handheld leak detection system Please specify how the monitoring is completed (foot/vehicle/aircraft):

What is the scanning or viewing range of the AIMM?

For Stationary leak detection system What is the necessary number of leak detection devices for facility size and set-up?
Is this system capable of continuous monitoring? ☐ Yes ☐ No

Is the proposed AIMM already in use or approved for hydrocarbon leak detection in other applications or areas or by any other regulatory authorities?
☐ Yes ☐ No
If Yes, please describe (specify regulatory authority):

Please describe how a leak is identified using the proposed AIMM:

________________________________________________________

________________________________________________________
Is the proposed AIMM capable of identifying specific leak locations (i.e. component or piece of equipment leaking)?

☐ Yes  ☐ No

What is the proposed lower detection limit of the AIMM and what hydrocarbons is it capable of detecting or quantifying?

What is the ideal or manufacturer-recommended distance for most effective leak detection using the AIMM (please specify measurement rate for distance, such as feet)?

What is the maximum distance for the lower detection limit of the AIMM (please specify measurement rate for distance, such as feet)?

What factors, if any, may limit the ability of the AIMM to perform proper leak detection (i.e., maximum wind speed, minimum/maximum temperature, precipitation, etc.)?

What are the leak tracking (for example, GPS integration) and data logging capabilities of the proposed AIMM?

Section 3 – Additional Information

Has this AIMM been published in any peer reviewed publication?

☐ Yes  ☐ No

If Yes, please list:

<table>
<thead>
<tr>
<th>Name of Publication</th>
<th>Date of Publication</th>
<th>Author of Article</th>
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Please include the following with this application and mark or identify appropriately for review purposes. This application may be considered incomplete if the following are not included.

☐ Included

Supplemental information on the technology involved. This information should be provided in easy to understand terms or language. The information should cover, but not be limited to the following:

- How the AIMM works and is used
- Training and/or certification required to operate and understand the AIMM
- The leak detection capability and reliability of the AIMM
- Leak tracking and recording capabilities of the AIMM
- Limitations or requirements needed for a valid reading from the AIMM

☐ Included

An Operation and Maintenance Plan that covers the following:

- Standard operating procedures
- Leak tracking and recording procedures
- Leak repair recording procedures
- Calibration and maintenance schedules for the AIMM

☐ Included

Results of comparative testing with proposed AIMM (Method 21 for quantitative approval or IR camera for qualitative approval), including protocol for comparative testing. The division will determine if comparative monitoring is necessary if not included

☐ Included  ☐ N/A

Any articles or press that has been published in a peer reviewed publication