



# Super Emitter Program

Informational Webinar

June 25, 2024  
1 pm – 4pm (ET)

Livestream link: [https://youtube.com/live/zswE9M\\_dsAc?feature=share](https://youtube.com/live/zswE9M_dsAc?feature=share)

THANK YOU FOR JOINING.  
THE WEBINAR WILL BEGIN SHORTLY.



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- Language Services
  - Participants seeking language support will need to select a language channel to listen to language providers.
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## Instrucciones de la computadora

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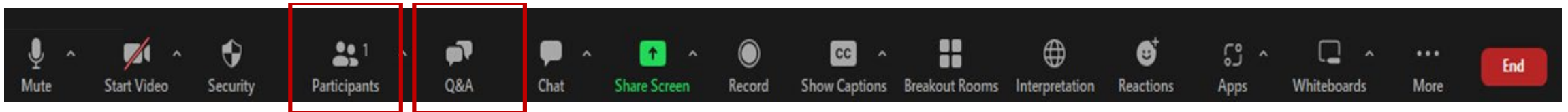


Haga clic en español

When prompted to select your language, under “Listen In” select either the **English** or **Spanish** channel

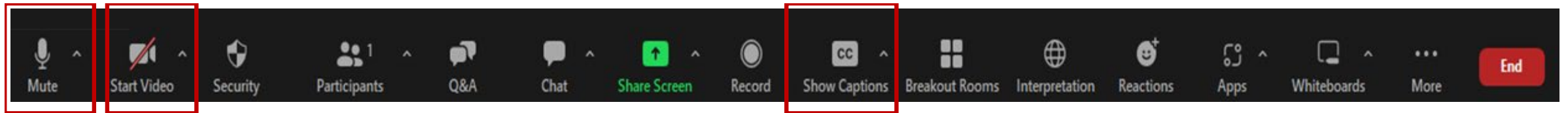
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- General Information for Zoom Participants
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# Zoom Guidelines & Etiquette

- Today's webinar will be recorded and closed-captioning/live transcription has been enabled.
- Zoom Etiquette and Technical Issues Responses
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  - If you experience video or sound issues, try disconnecting and rejoining



# Zoom Guidelines & Etiquette

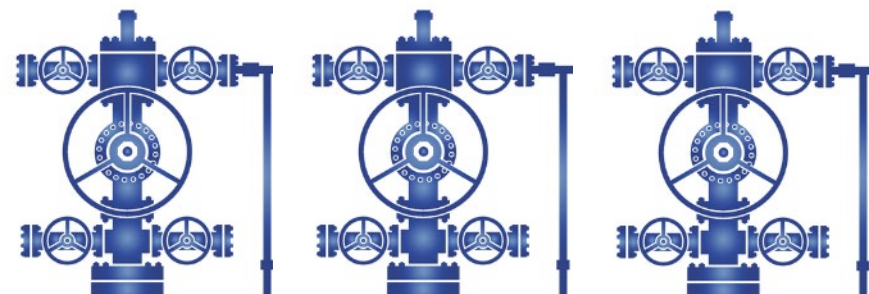
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# Informational Presentation



# EPA's Super Emitter Program in the Oil and Natural Gas Sector

New Source Performance Standards: Subparts OOOO, OOOOa, OOOOb  
&  
Emission Guidelines: OOOOc



# Crude Oil and Natural Gas Operations: Where EPA's NSPS Rules Apply

## Production & Processing

EPA's methane proposal covers equipment & processes at:

1. Onshore well sites
2. Storage tank batteries
3. Gathering & boosting compressor stations
4. Natural gas processing plants

## Natural Gas Transmission & Storage

EPA's methane proposal covers equipment & processes at:

5. Compressor stations
6. Storage tank batteries

## Distribution

(not covered by EPA rules)

7. Distribution mains/services
8. City gate
9. Regulators and meters for customers

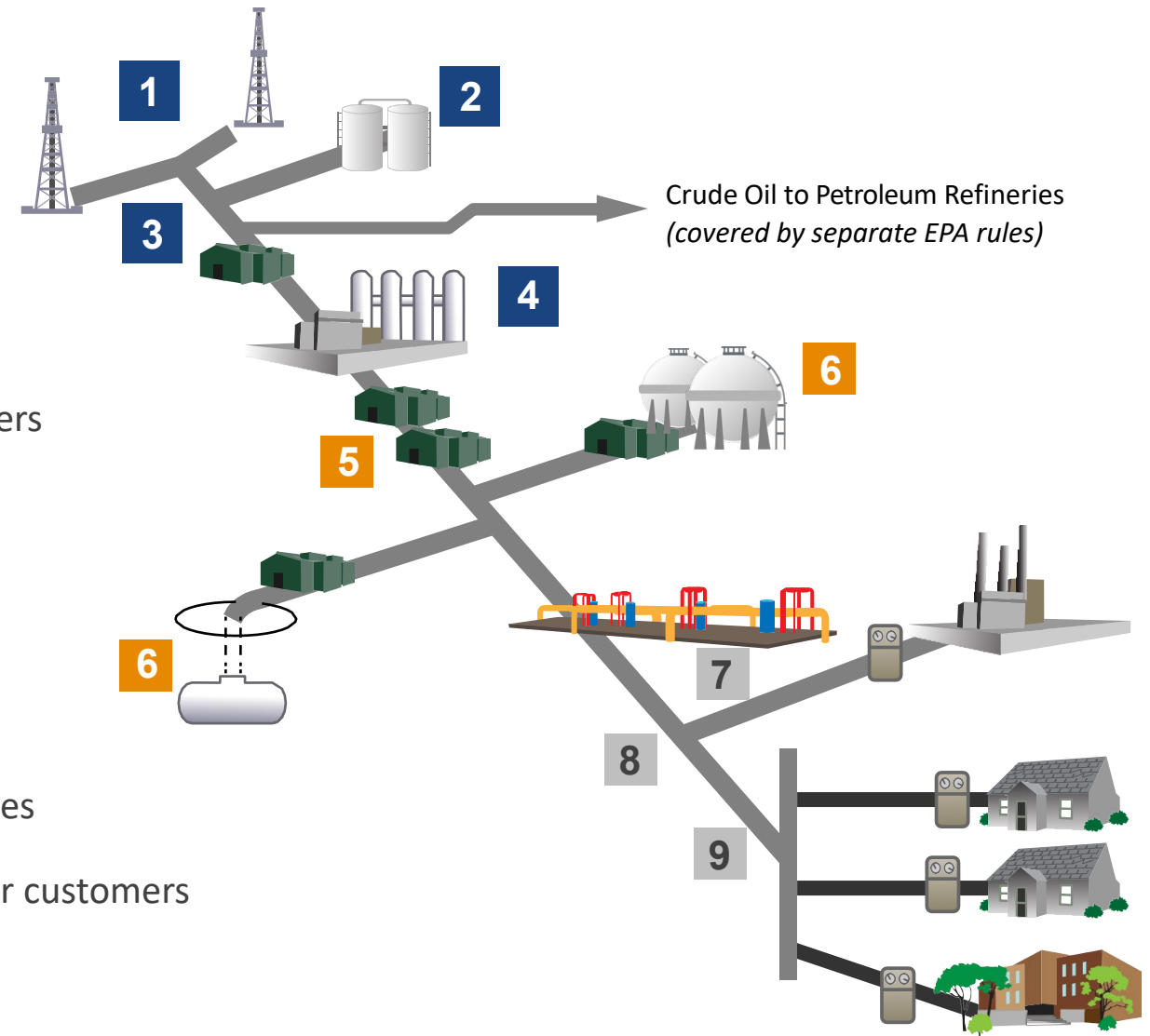
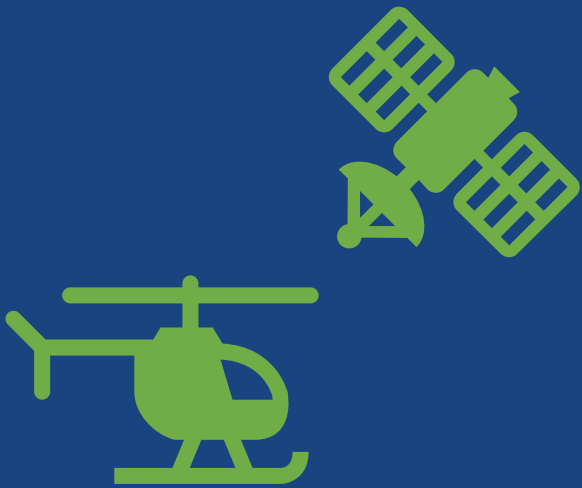


Figure adapted from American Gas Association and EPA's Natural Gas STAR Program



# The Super Emitter Program: Background



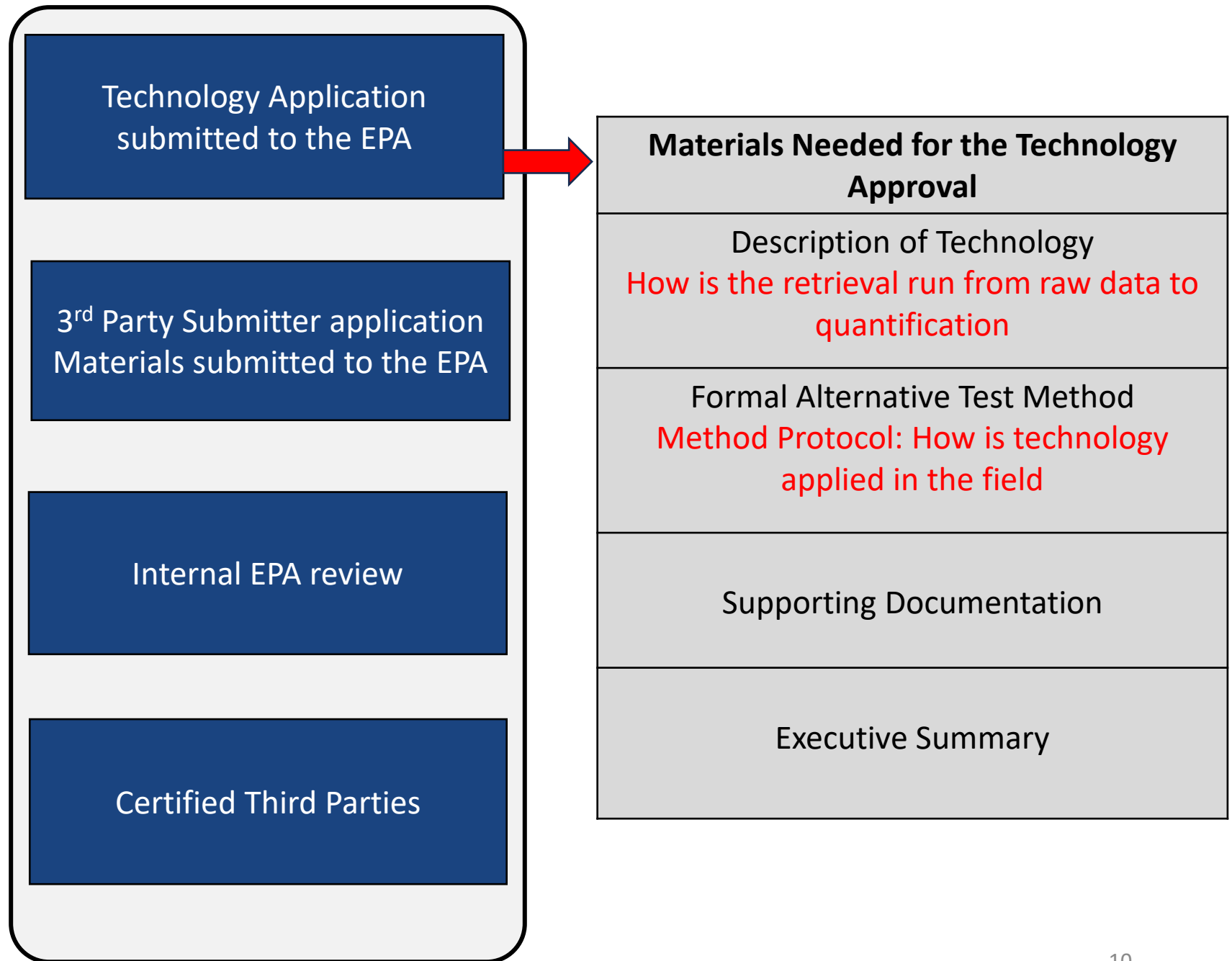
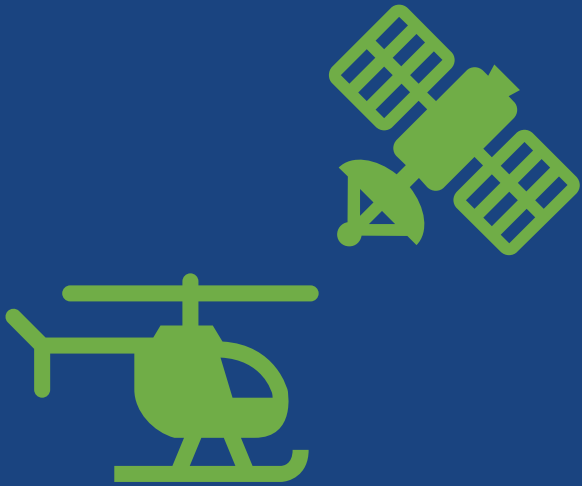
Leverages 3<sup>rd</sup> party expertise to find large leaks and releases of 100 kg/hr of methane, known as “super emitters”

EPA will provide a strong oversight role and ensure the program operates with a high degree of integrity, transparency, and accountability

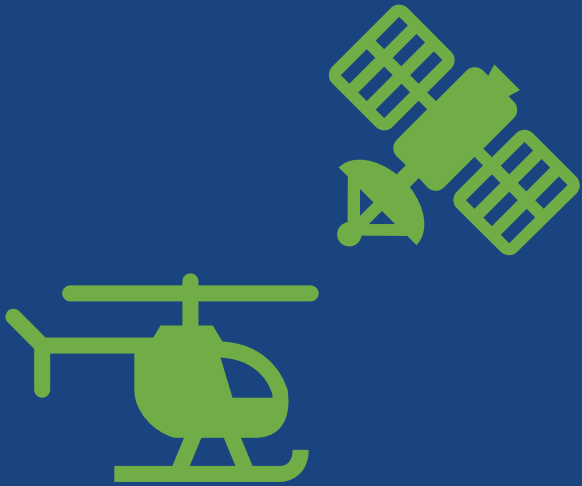
Only EPA-approved remote-sensing technologies may be used.

EPA will make super emitter data publicly available on a timely basis

# The Super Emitter Program: Technology Approvals



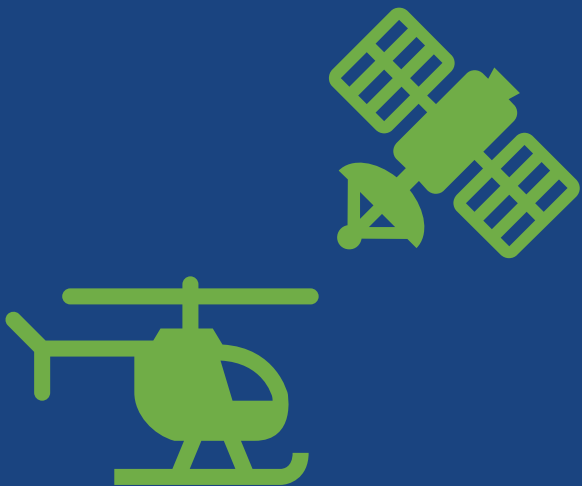
# The Super Emitter Program: Technology Approvals and Third-Party Approvals




## Technology Application submitted to the EPA

- Technology approvals must be submitted through an electronic application portal  
<https://www.methane.app.cloud.gov>
- Plain language document describing the technology application process:  
<https://www.epa.gov/system/files/documents/2024-05/gd-56-alternative-test-methods-in-the-advanced-methane-detection-program.pdf>
- EPA Webinar EPA conducted in April 2024
  - [https://www.epa.gov/system/files/documents/2024-04/methane-technology-webinar\\_v2.pdf](https://www.epa.gov/system/files/documents/2024-04/methane-technology-webinar_v2.pdf)
  - <https://www.youtube.com/watch?v=a7evxSFhhhQ>
- Technology providers that also want to participate as third parties should inform EPA during the technology application.

# The Super Emitter Program: Third-Party Approvals



<https://methane.app.cloud.gov/>



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Alternative Test Method



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Alternative Test Method(s) Request Portal for the New Source Performance Standards and Emission Guidelines for Oil and Natural Gas Operations


EPA's final New Source Performance Standards and Emission Guidelines for Oil and Natural Gas Operations provide owners and operators the opportunity to use advanced monitoring technologies to meet certain requirements in the final rule.

Use this site to submit Alternative Test Method (ATM) requests to the Administrator for approval under provisions outlined in [40 CFR 60.5398b\(d\)](#). These provisions incorporate specific criteria for the review, evaluation, and potential use of advanced methane detection technology for periodic screening, continuous monitoring, and/or super-emitter detection and are designed to facilitate state-of-the-art detection methods for emission sources. Technology providers, and oil and natural gas owners and operators may submit requests for alternative test methods to demonstrate the performance of advanced methane detection technologies.

Before creating a new request, please review the final rule and Guideline for Alternative Test Method Requests available on our web page at <https://www.epa.gov/emc/oil-and-gas-alternative-test-methods>, and the instructions for applying for an account to access the Methane Alternative Test Method Application Submission Portal at [https://www.epa.gov/system/files/documents/2024-05/methane-atm-register-with-epa.instructions-.pdf\\_0.pdf](https://www.epa.gov/system/files/documents/2024-05/methane-atm-register-with-epa.instructions-.pdf_0.pdf)

Approved alternative test methods that are broadly applicable will be posted on EPA's [Air Emission Measurement Center](#) webpage.

Learn more about EPA's [rules for oil and natural gas operations](#).

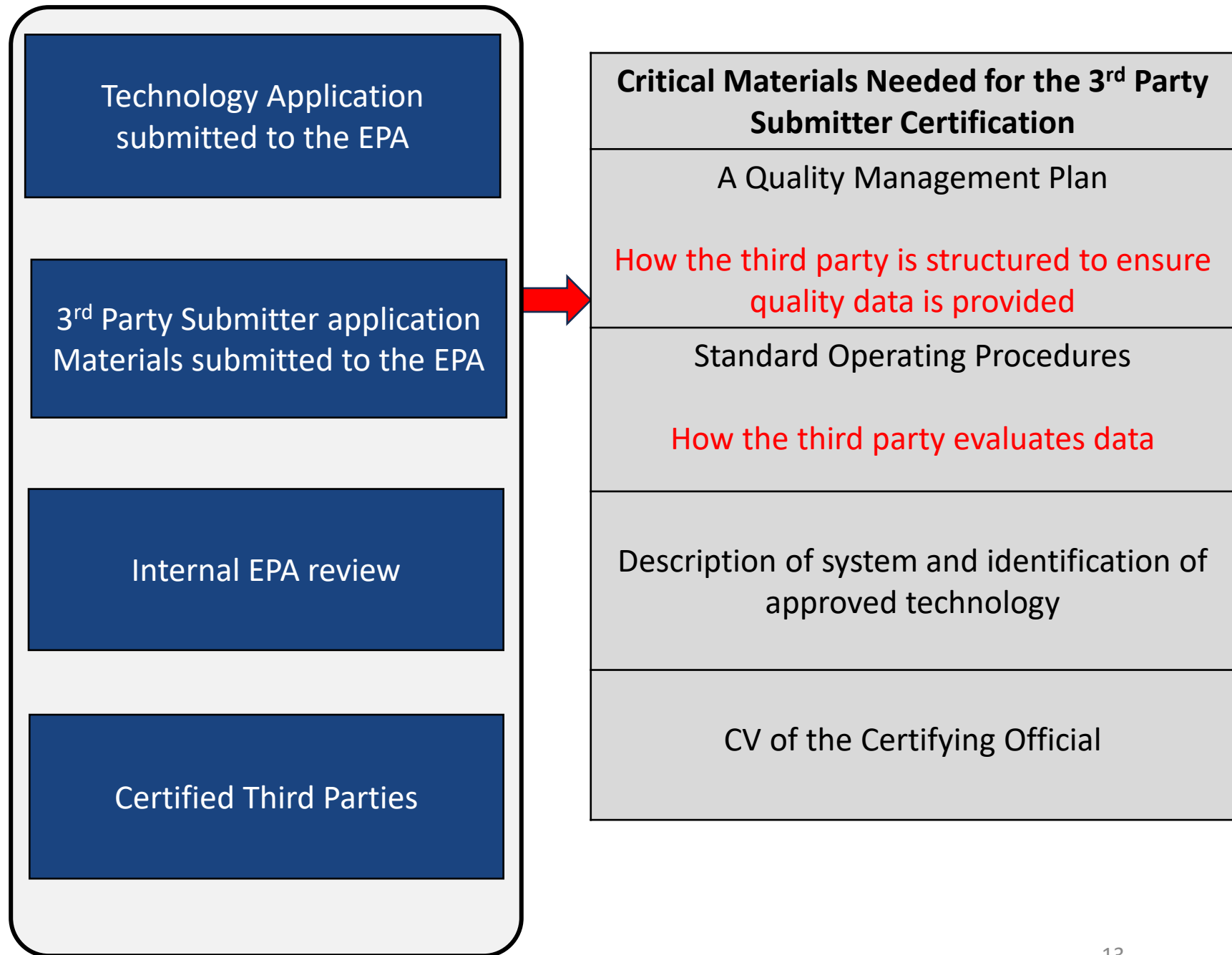
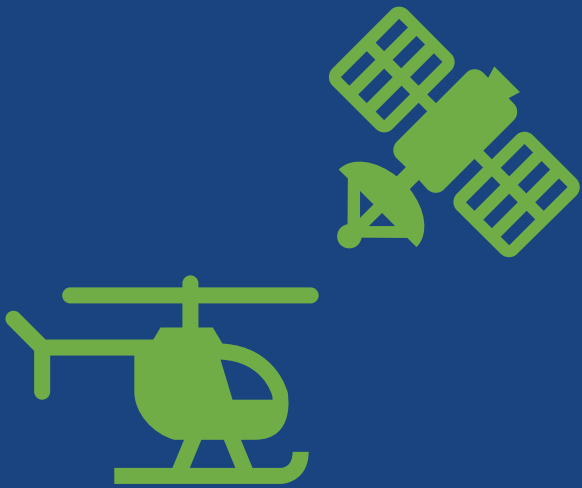


Discover.  
Accessibility  
Budget & Performance

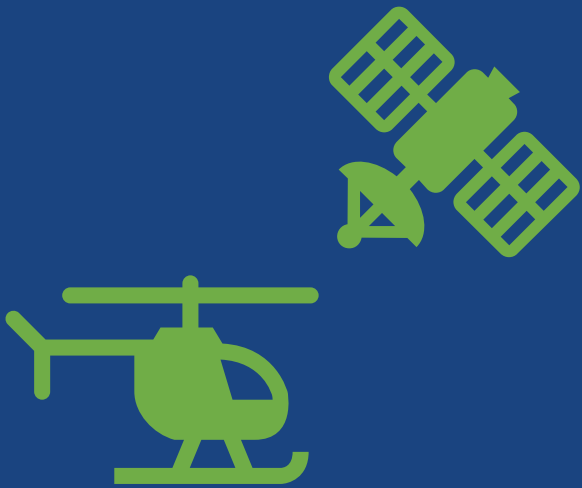
Connect.  
Data.gov  
Inspector General

Ask.  
Contact EPA  
EPA Disclaimers

# The Super Emitter Program: Technology Approvals and Third-Party Approvals



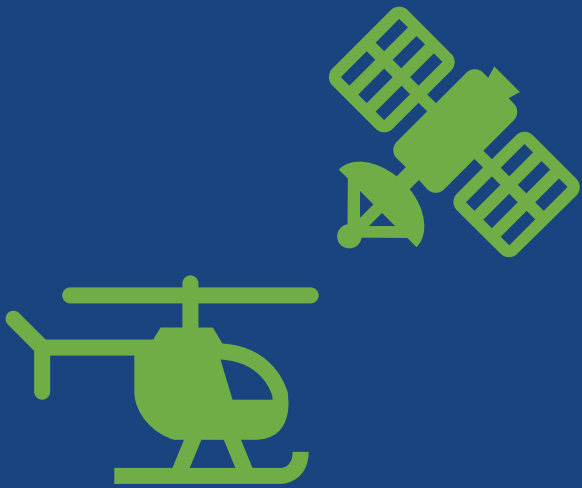
# The Super Emitter Program: Technology Approvals and Third-Party Approvals



## 3<sup>rd</sup> Party Submitter application Materials submitted to the EPA

- Quality Management Plan consistent with EPA's Quality Management Plan Standard (Directive No: CIO 2015-S-01.0, January 17, 2023) for Non-EPA organizations  
[https://www.epa.gov/system/files/documents/2023-01/quality\\_management\\_plan\\_standard.pdf](https://www.epa.gov/system/files/documents/2023-01/quality_management_plan_standard.pdf)
- Standard Operating Procedures: data review processes and records management  
<https://www.epa.gov/sites/default/files/2015-06/documents/g6-final.pdf>
- General identification information for the candidate third-party notifier requesting certification as a third-party notifier
- Description of technologies used
  - Reference to the technology approval.
  - Contracting agreements/MOU with the technology provider
- Curriculum vitae of the certifying official(s)

# The Super Emitter Program: Technology Approvals and Third-Party Approvals

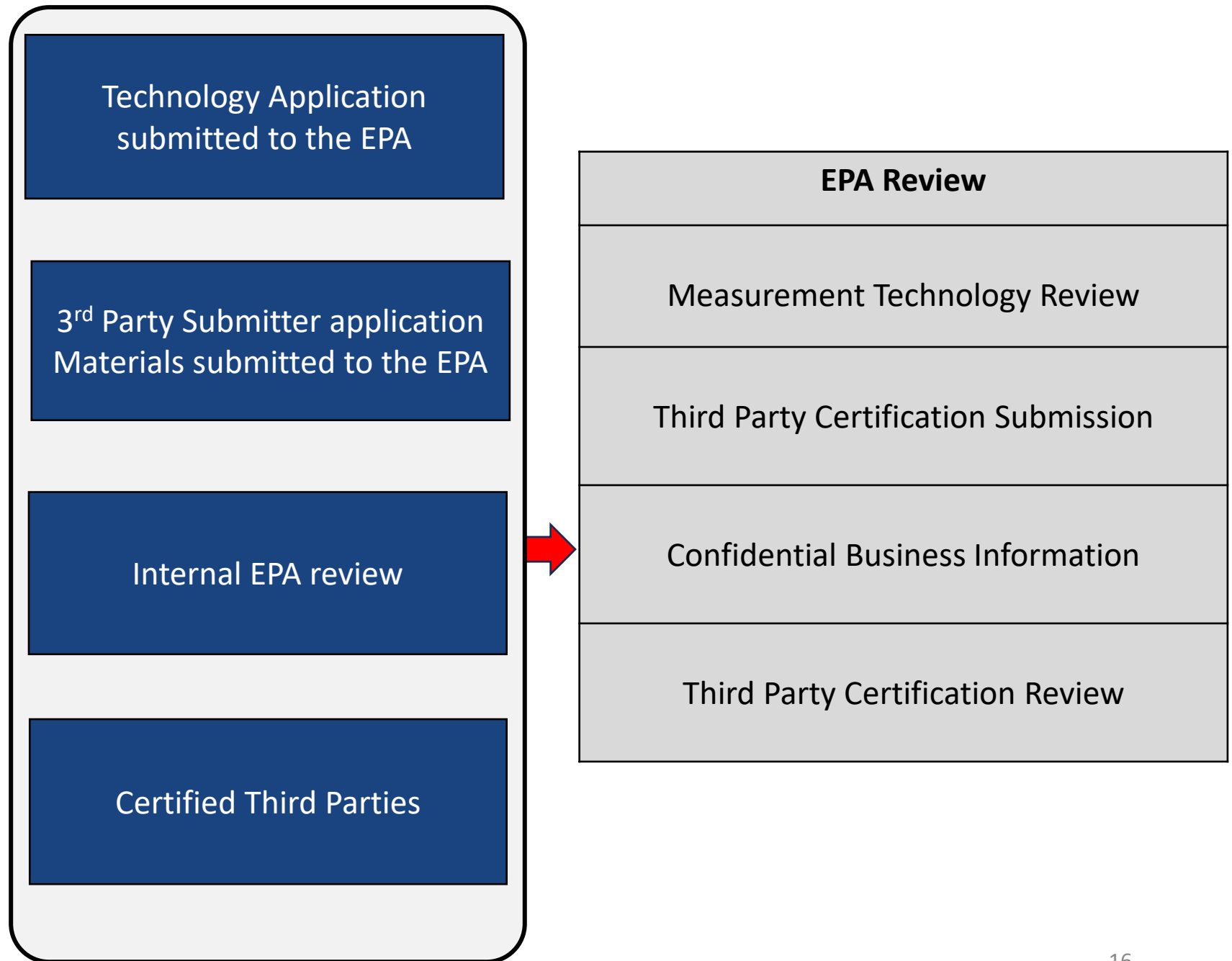
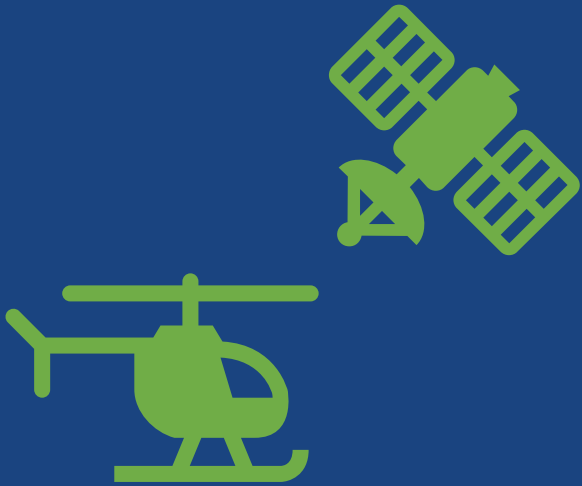


## 3<sup>rd</sup> Party Submitter application Materials submitted to the EPA

- Requirements for third parties are found in § 60.5371b(b) of NSPS OOOOb

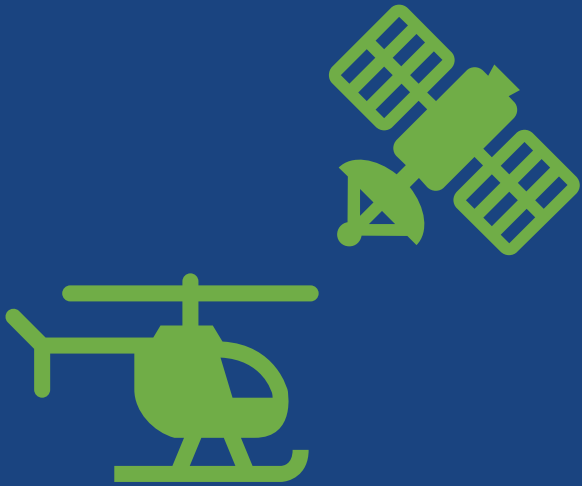
Required Element	Third Party	Technology Provider and Third Party
General Identification	<input checked="" type="checkbox"/>	-
Description of the technologies used, reference to the approval, and agreement(s)	<input checked="" type="checkbox"/>	-
Quality Management Plan	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Data Review SOP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Data Management SOP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

# The Super Emitter Program: EPA Review





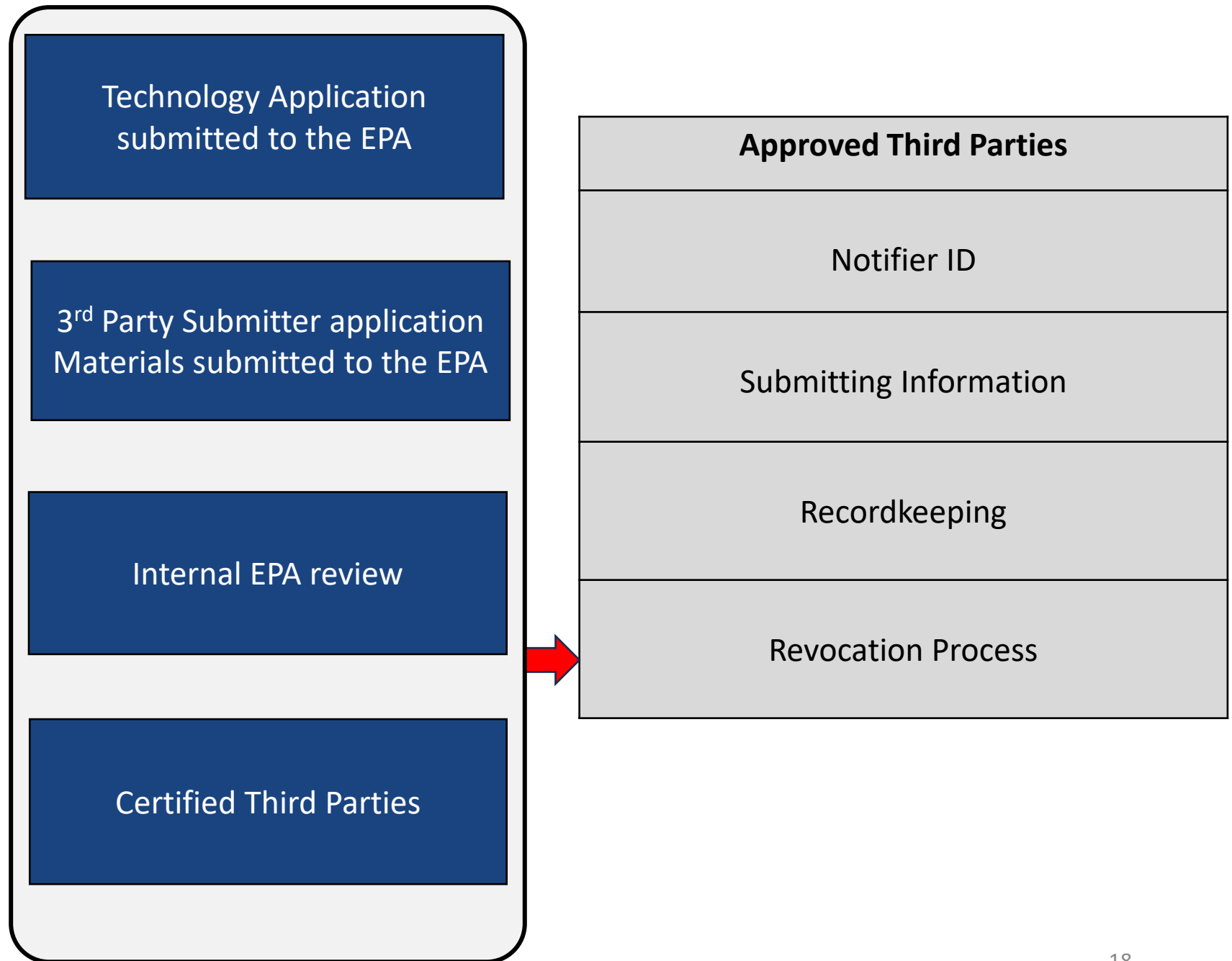
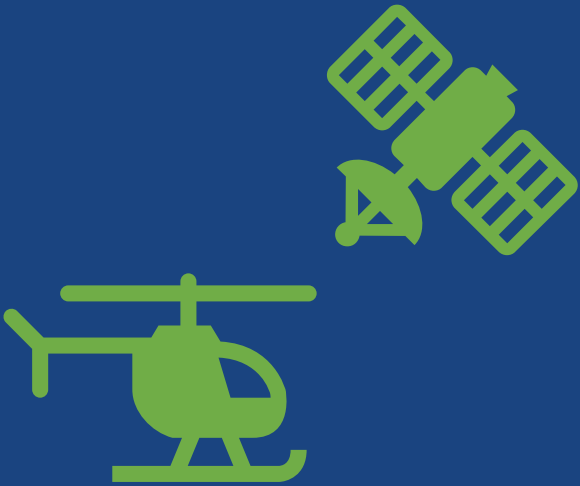
# The Super Emitter Program: Technology Approvals and Third-Party Approvals



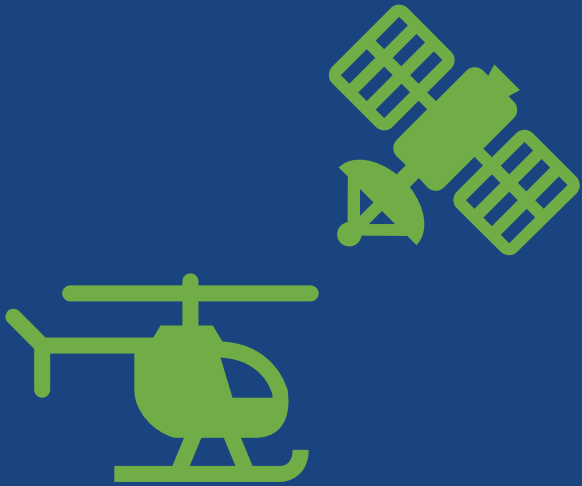
## Internal EPA review

- A request to be certified as a third-party must be submitted to: U.S. EPA, Attn: Leader, Measurement Technology Group, Mail Drop: E143-02, 109 T.W. Alexander Drive, P.O. Box 12055, RTP, NC 27711. Alternatively request maybe submitted as a pdf via email to: [Johnson.steffan@epa.gov](mailto:Johnson.steffan@epa.gov)
- Submit the portion of the information claimed as CBI to the OAQPS CBI office. Electronic submissions must be transmitted directly to the OAQPS CBI Office at the email address [oaqpscbi@epa.gov](mailto:oaqpscbi@epa.gov) and should include clear CBI markings and be flagged to the attention of the Leader, Measurement Technology Group
- Review Timeline
  - Combined technology review/third party certification will be performed at the same time (no more 270 days)
  - Third party certification only (approximately 60 days)
- <https://www.epa.gov/emc/third-party-certifications>

# The Super Emitter Program: Technology Approvals and Third-Party Approvals



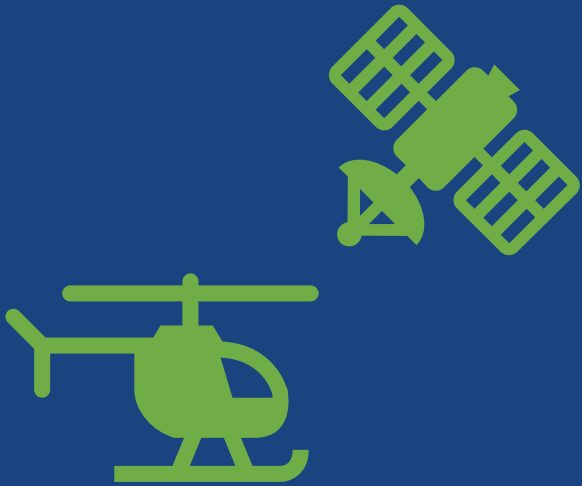
# The Super Emitter Program: Technology Approvals and Third-Party Approvals



## Certified Third Parties

- Certified third party are provided with a unique Notifier ID and access and ability to report into the Super Emitter Portal
- Third Party may submit information to the Super Emitter Portal as soon as 15-days after receiving a certification.
- Submissions must be complete and consist of the required fields identified in the rule.
- Signed attestation statement.
- Third parties are responsible for maintaining records:
  - All surveys conducted under this program
  - Records of any notifications provided to the EPA, and any underlying information of these notifications not provided to portal
  - Records used in identifying the owner or operator of a site
- <https://www.epa.gov/compliance/super-emitter>

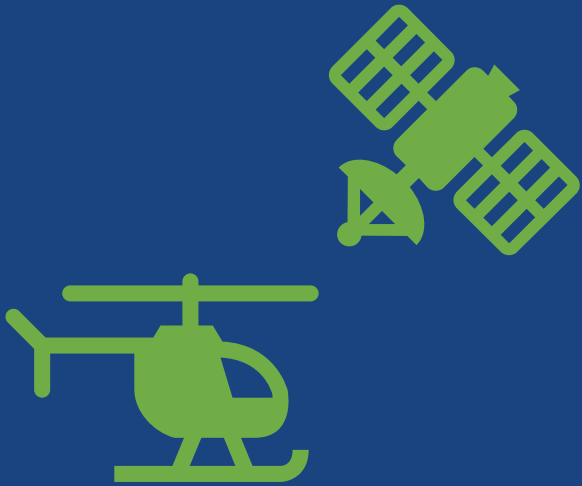
# The Super Emitter Program: Technology Approvals and Third-Party Approvals



## Certified Third Parties – Revocation

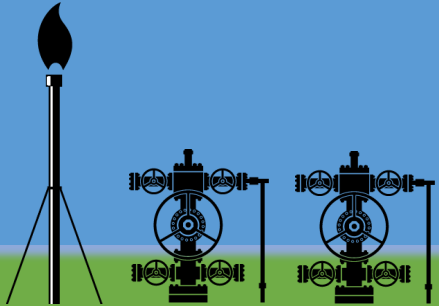
- Third-party has made material changes to their procedures for identifying super-emitter without seeking recertification
- Administrator finds that the certified third-party has persistently submitted data with significant errors (*e.g.*, misidentification of the owner or operator)
- Third-party has engaged in illegal activity during the during the assessment of a super-emitter event (*e.g.*, trespassing).
- Administrator receives a petition from an owner or operator to remove a certified third-party from the list of approved parties:
  - Any owner or operator that has received more than three notices with meaningful and/or demonstrable errors of a super-emitter event at the same oil and natural gas facility, from the same third party.
  - Such petitions may not be used to dispute the methodology that were approved

# The Super Emitter Program:

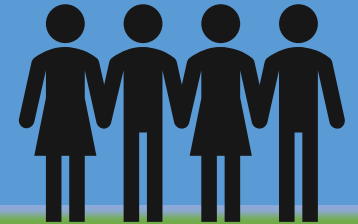


## Overview

# EPA's Super Emitter Program



Oil and Natural  
Gas Facility



Technology Provider/Third-  
Party Notifier

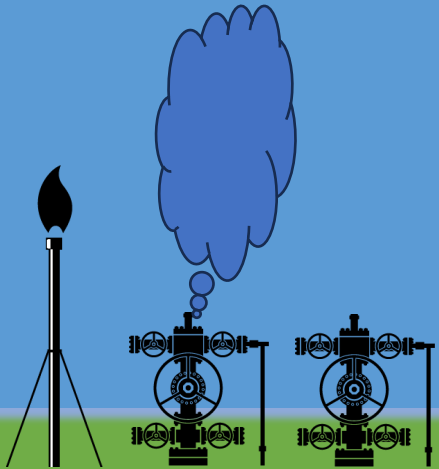


Owner or Operator

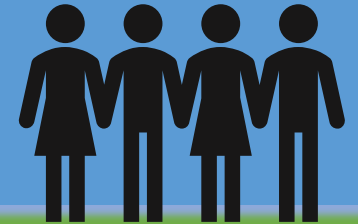


Super Emitter Portal

# EPA's Super Emitter Program



Oil and Natural  
Gas Facility



Technology Provider/Third-  
Party Notifier

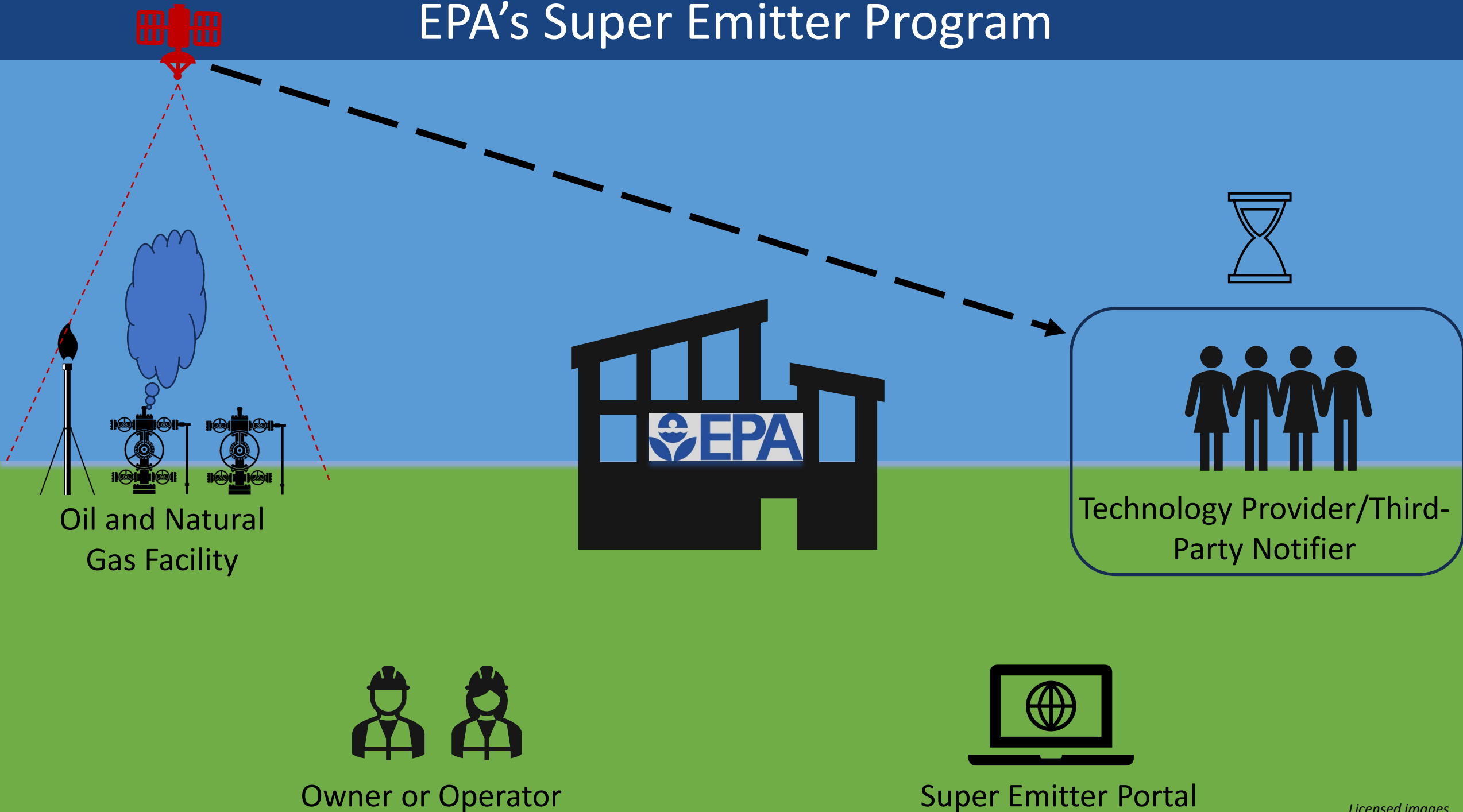


Owner or Operator



Super Emitter Portal

# EPA's Super Emitter Program



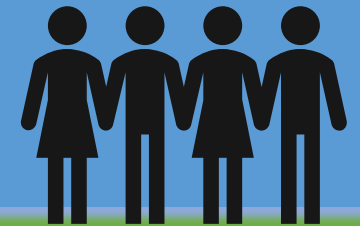


# EPA's Super Emitter Program

## Information included in the Report:

- Date of detection
- Location of event in *latitude and longitude* coordinates
- Owner(s) or operator(s) of an oil and natural gas facility within 50 meters of the coordinates
- Identification of the detection technology
- Documentation (*i.e. imagery*) depicting the detected event
- Emission rate of the event in kg/hr
- Attestation statement

Report within 15 days of detection



Technology Provider/Third-Party Notifier

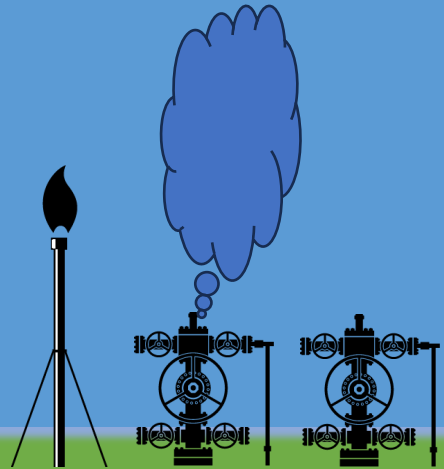


Owner or Operator



Super Emitter Portal

# EPA's Super Emitter Program



Oil and Natural  
Gas Facility



- EPA will evaluate the notification for completeness and accuracy
- When the notification meets these conditions, EPA will:
  - Assign a unique notification identification number
  - Provide notification to the owner(s)/operator(s)
  - Post the notification (except for the owner(s)/operator(s) attribution)



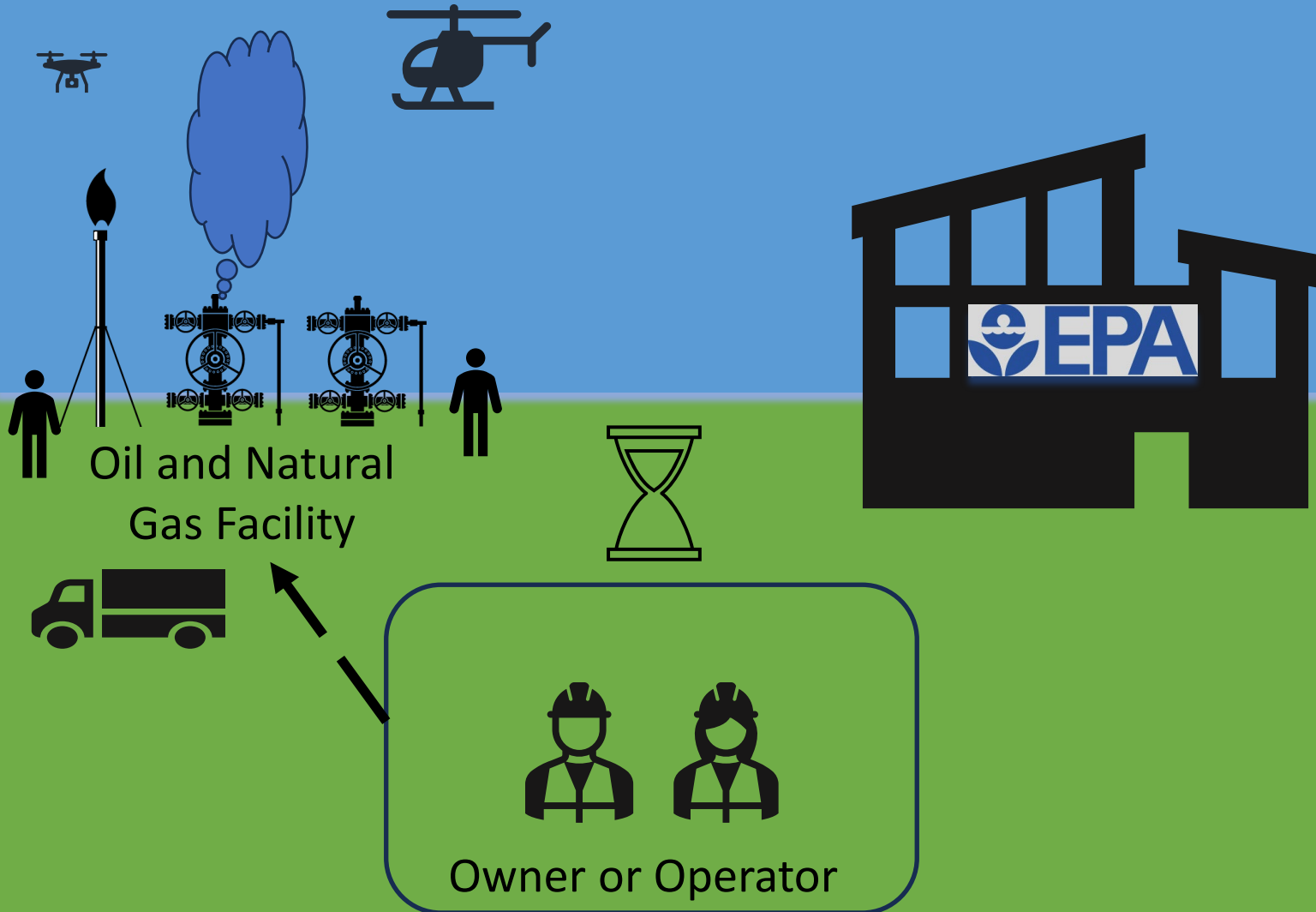
Owner or Operator



Super Emitter Portal

# EPA's Super Emitter Program

Must initiate an investigation with **5 days** and report the results to EPA within **15 days**.



Owner or Operator must:

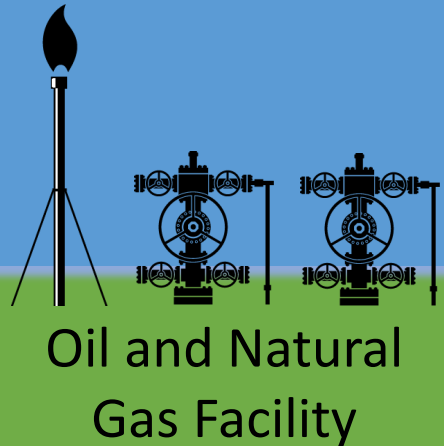
- Review any maintenance activities
- Review all monitoring data from control devices
- Review any fugitive emissions survey performed
- Review data from any continuous alternative technology systems
- Screen the entire well site, centralized production facility, or compressor station with OGI, EPA Method 21, or an alternative test method(s)



Super Emitter Portal

# EPA's Super Emitter Program

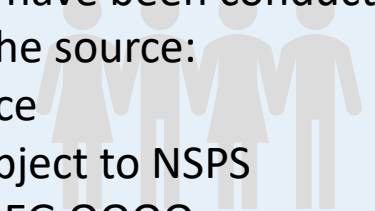
Must initiate an investigation with **5 days** and report the results to EPA within **15 days**.



Owner or Operator

Owner or Operator will report:

- Confirmation of ownership
- General identification of the facility
- If the affected facilities/equipment is subject to NSPS 0000/a/b or EG 0000c
- If **unable** to identify the source:
  - Confirmation that all possible investigations have been conducted
- If **able** to identify the source:
  - ID of the source
  - If source is subject to NSPS 0000/a/b or EG 0000c
- Date and time of **the end** of Super Emitter event
- Attestation



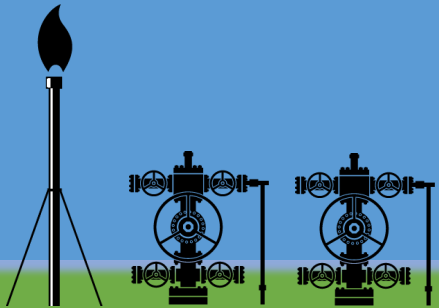
Technology Provider/Third-Party Notifier



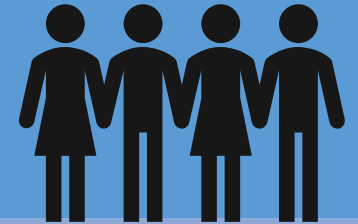
Super Emitter Portal

# EPA's Super Emitter Program

EPA will update the portal with the attribution (i.e., Identify the owner or operator)



Oil and Natural  
Gas Facility



Technology Provider/Third-  
Party Notifier

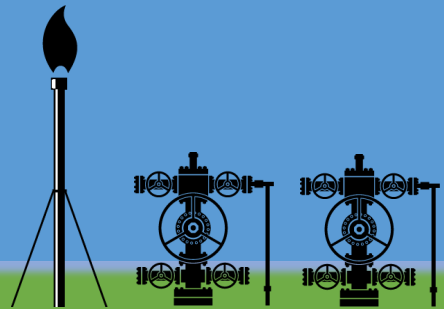


Owner or Operator



Super Emitter Portal

# EPA's Super Emitter Program



Oil and Natural  
Gas Facility

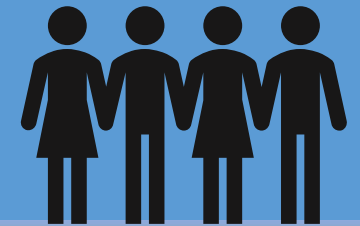


Owner or Operator



Super Emitter Portal

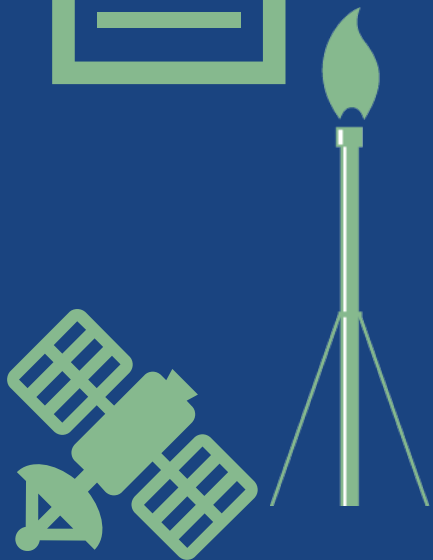
Third-Party Notifier may  
update a reported emission  
rate of a super emitter  
event they detected



Technology Provider/Third-  
Party Notifier

# Super Emitter Portal

# Form to Submit Event Data



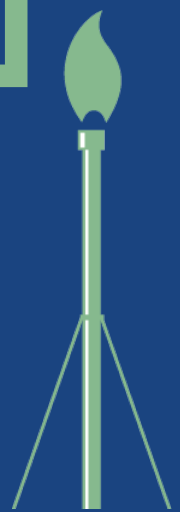
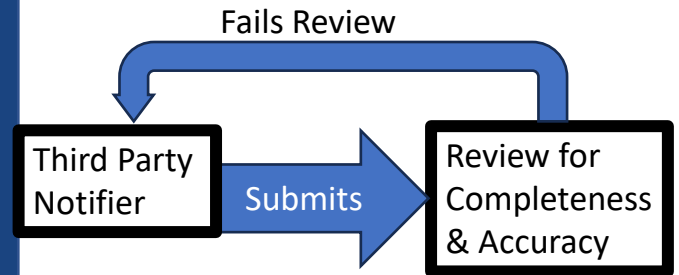
## Super Emitter Portal Process Overview



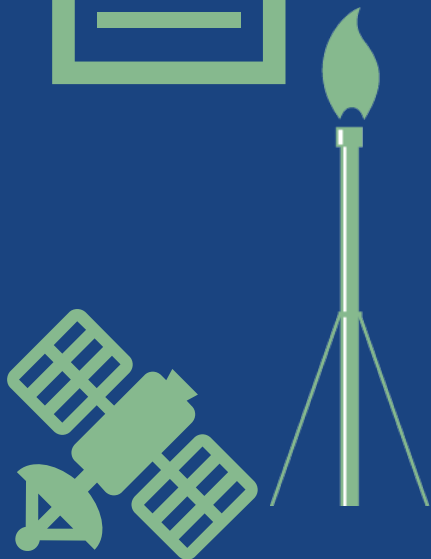


# Form to Submit Event Data

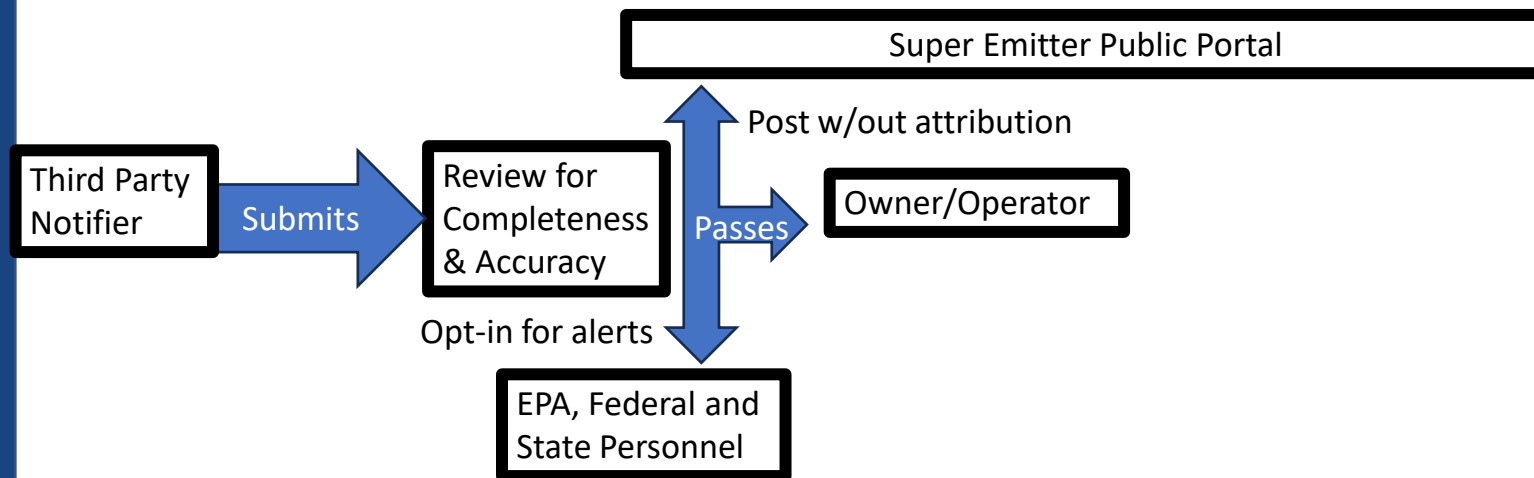
## Super Emitter Portal Process Overview



# Form to Submit Event Data



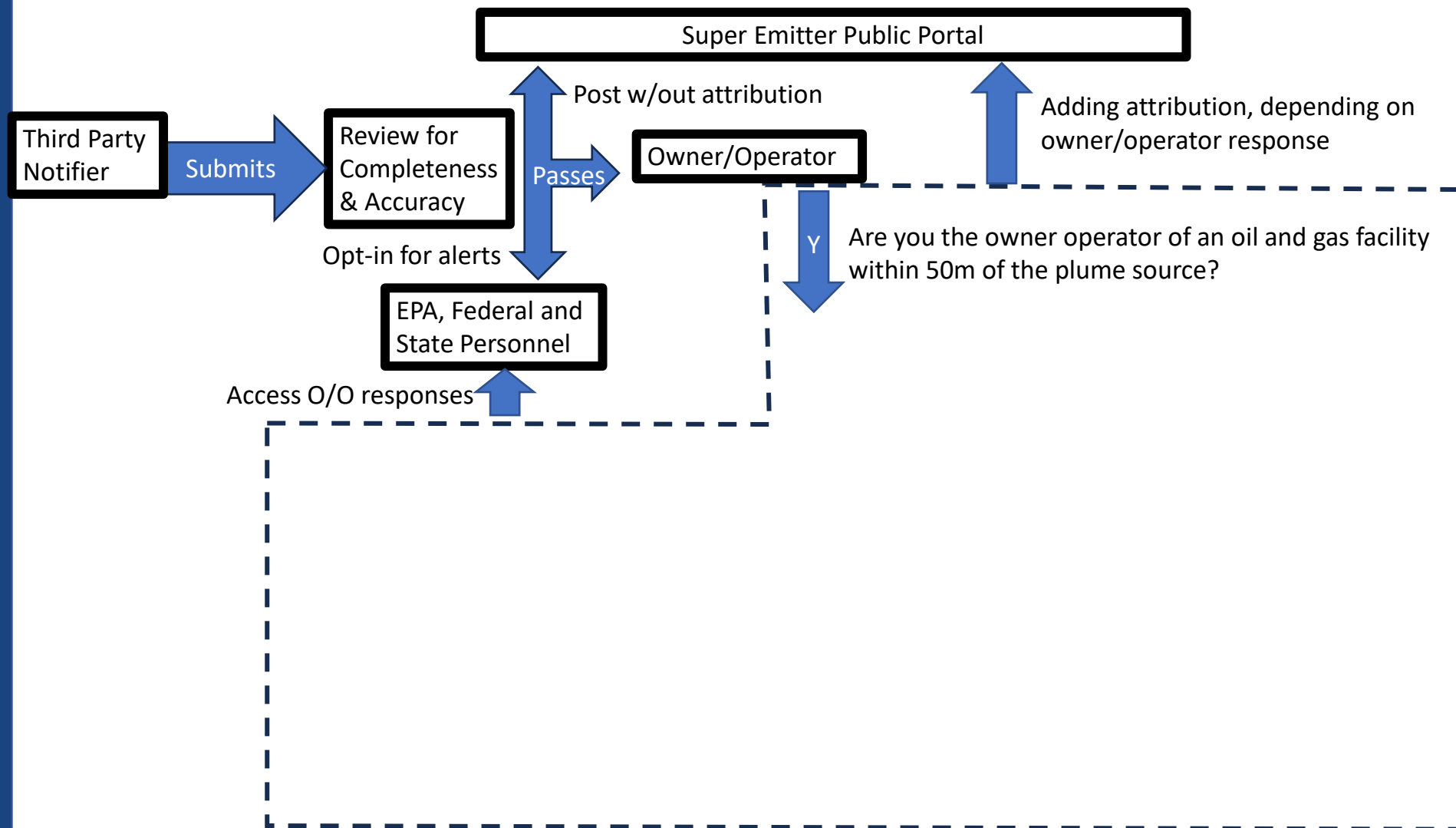
## Super Emitter Portal Process Overview



# Form to Submit Event Data



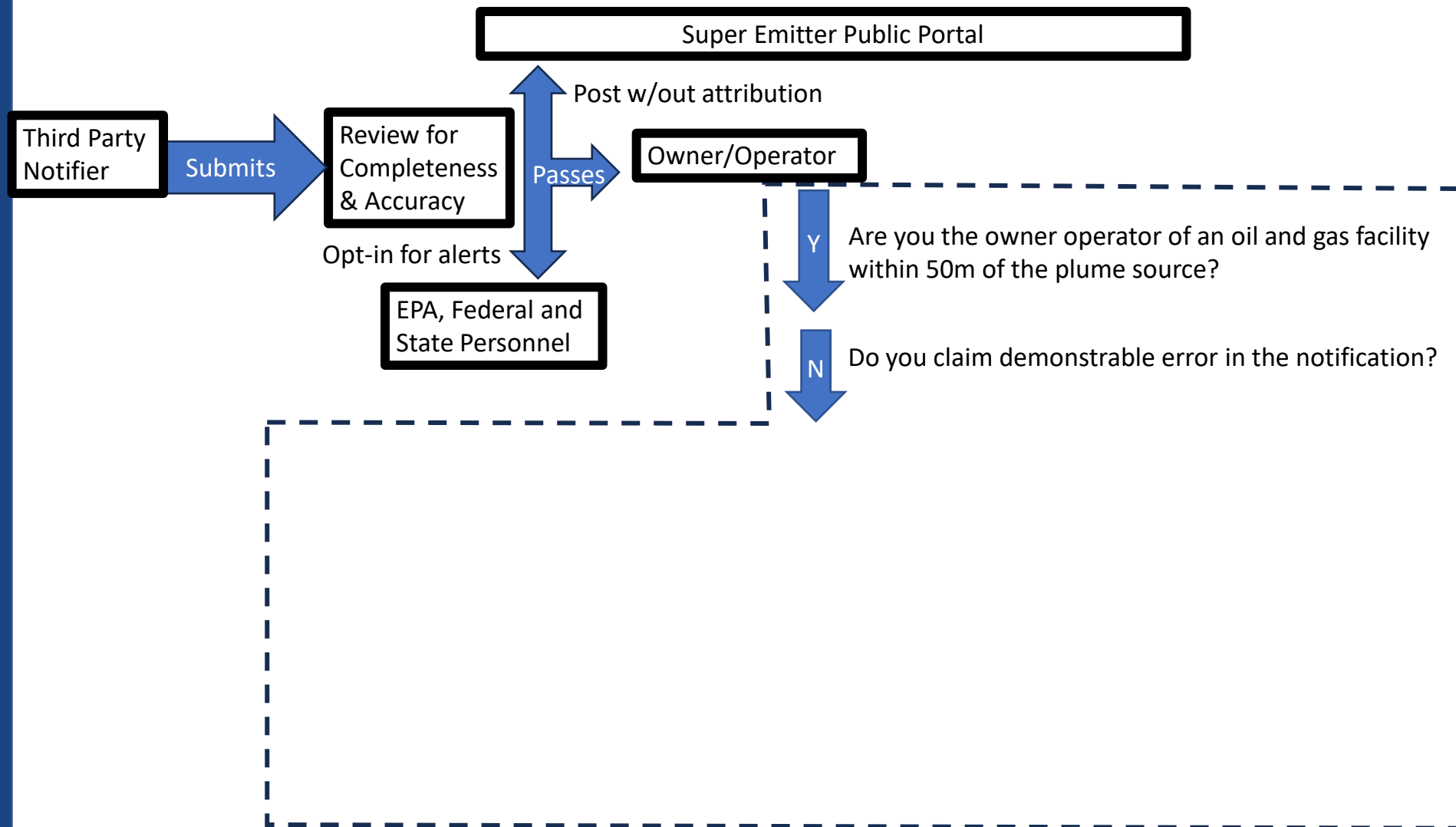
## Super Emitter Portal Process Overview



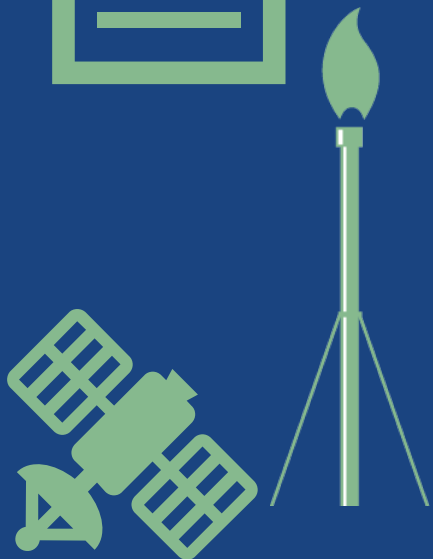
# Form to Submit Event Data



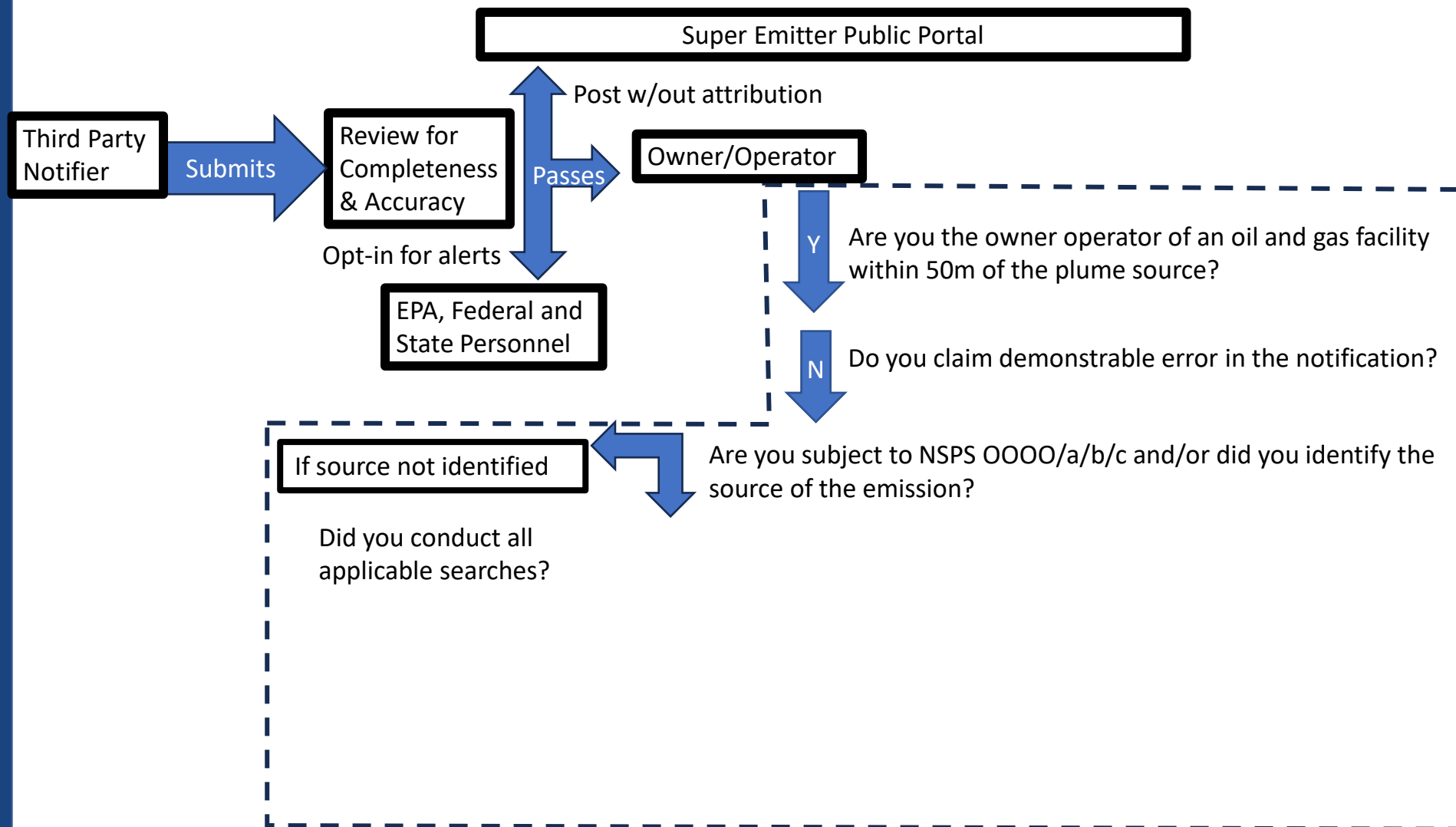
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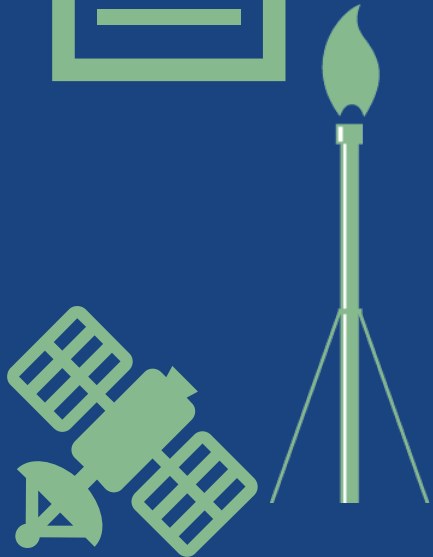
# Form to Submit Event Data



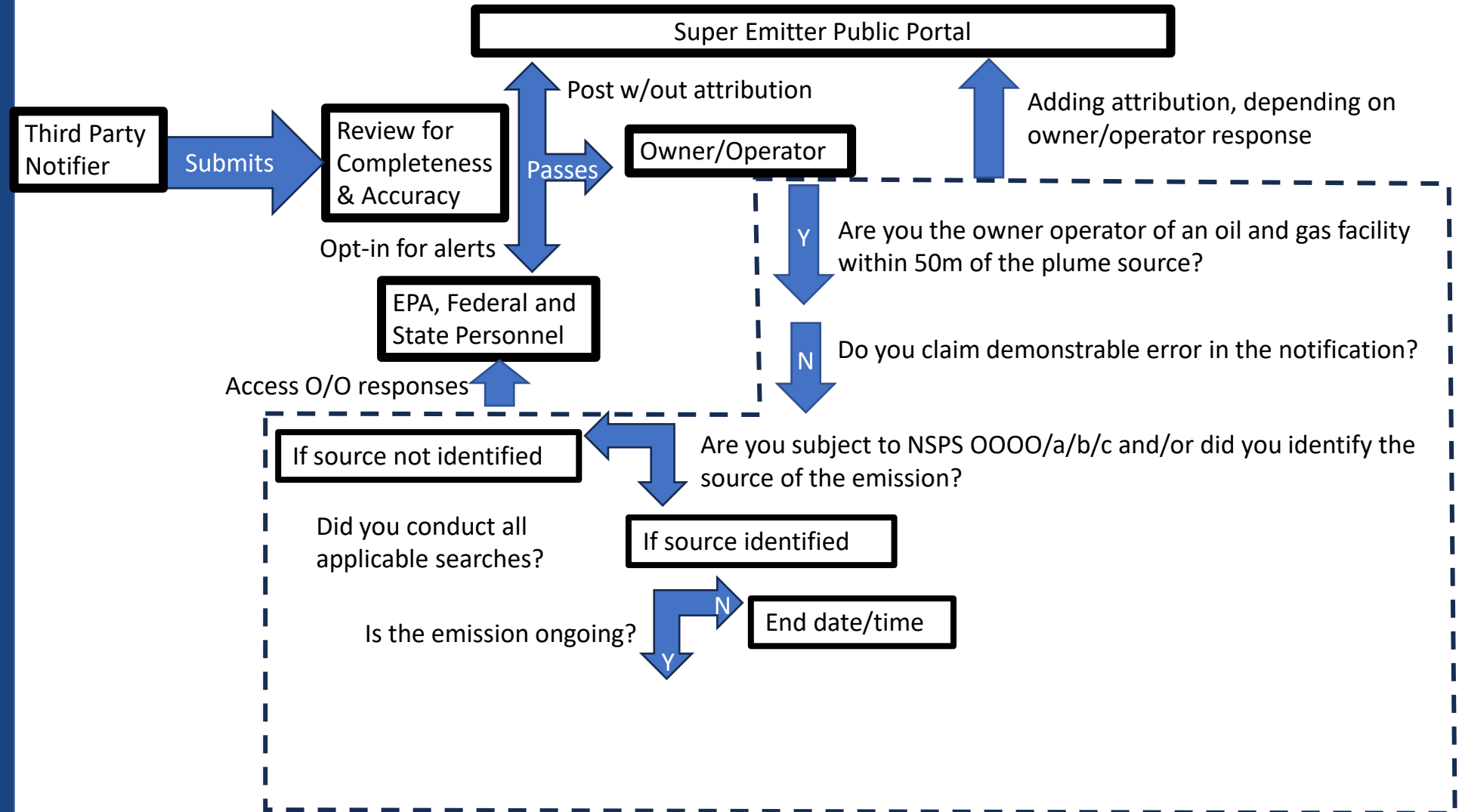
## Super Emitter Portal Process Overview



# Form to Submit Event Data

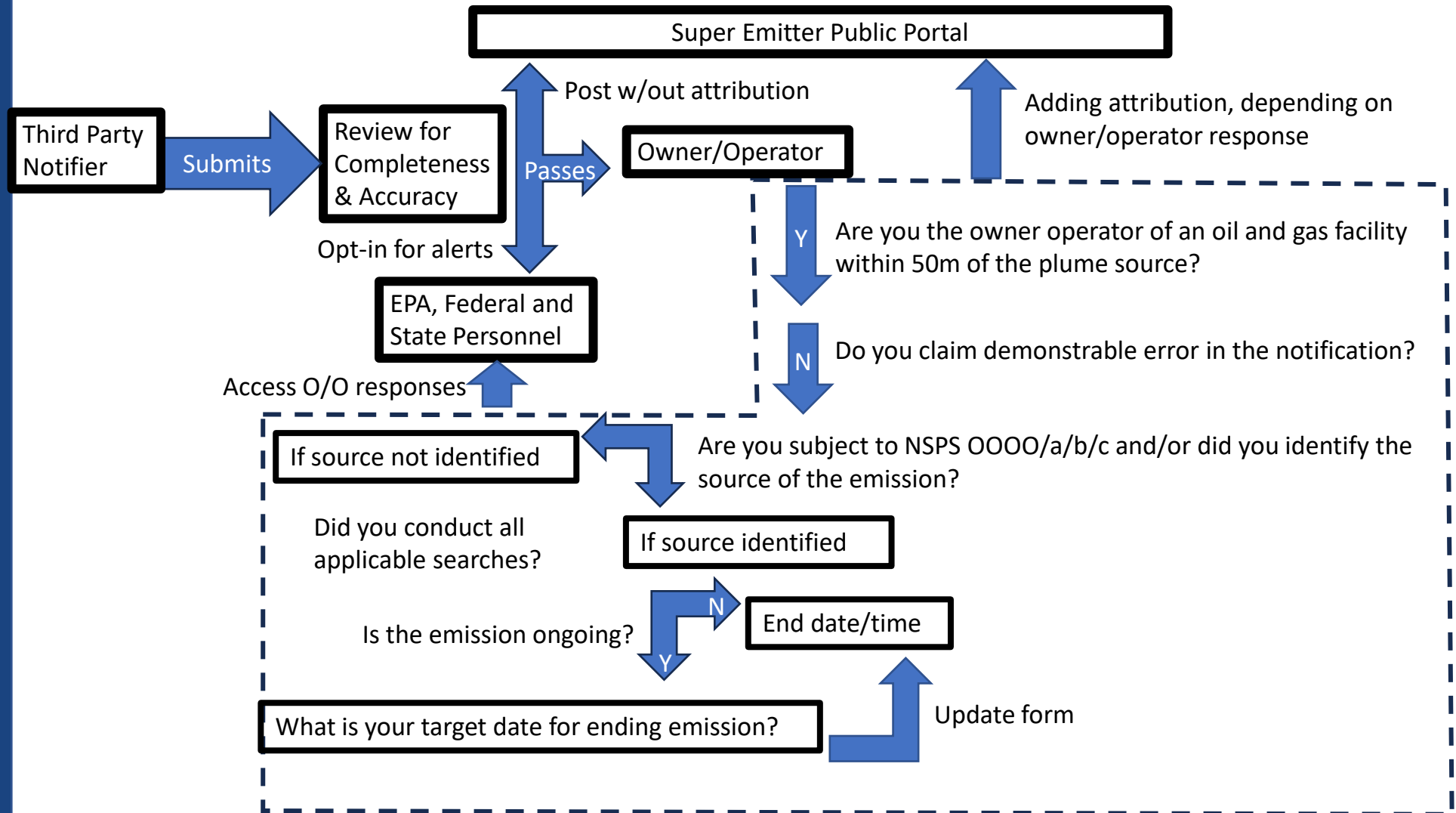


## Super Emitter Portal Process Overview



# Form to Submit Event Data

## Super Emitter Portal Process Overview



# Form to Submit Event Data



## Third Party Notification Form

— Collapse All + Expand All

? Help

### Notifier Information

Unique Third-Party Notifier ID  
(XXXX-TPN)

Notification Report ID

Name \*

Email \*

Submit Form

Clear Form

The 1<sup>st</sup> 3 fields  
are gray because  
they come from  
the system

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# Form to Submit Event Data



## Detection Information

Start Date of Detection/Survey

mm/dd/yyyy



End Date of Detection/Survey \*

mm/dd/yyyy



Time Zone of Detection/Survey

No Restrictions



Start Time of Detection/Survey

End Time of Detection/Survey

*Note: If detection is ground or aerial based and continuing, enter the time that detection ended.*

## Latitude and Longitude \*



Please ensure latitude and longitude coordinates are accurate within 50 meters and precise to 4 decimal places and follow the North American Datum of 1983 (NAD83).

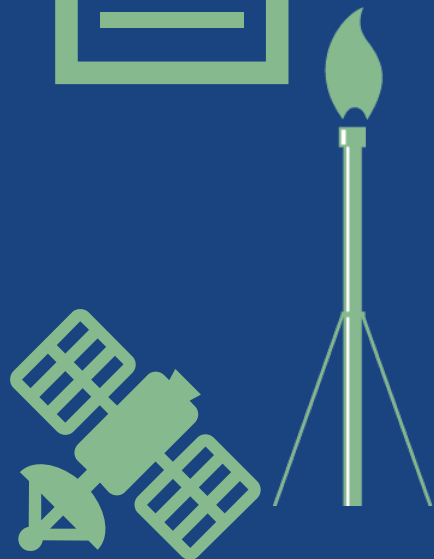
Enter in the coordinates using decimal degrees, noting that negative latitude represent the southern hemisphere, and negative longitude represent the western hemisphere.

Detection Latitude  
(Example: 35.1789)

Detection Longitude  
(Example: -147.2569)

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# Form to Submit Event Data



## Source Information

EPA or API Identifier Type

No Restrictions



EPA or API Identifier #

Other EPA/State Identifier

Other Source of Identifying  
Information

Attachment

Drag file here or [choose from folder](#)

Attachment Description

Owner/Operator

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# Form to Submit Event Data



## Documentation

Detection technology approved  
under § 60.5398b(d): (MATM-  
XXXX)

Method Type



No Restrictions



### Image Upload \*



- Photo and geographic files accepted
- Upload will accept the following formats: JPEG, PNG, TIFF, GeoTIFF, KML, SHP

Upload Image(s)

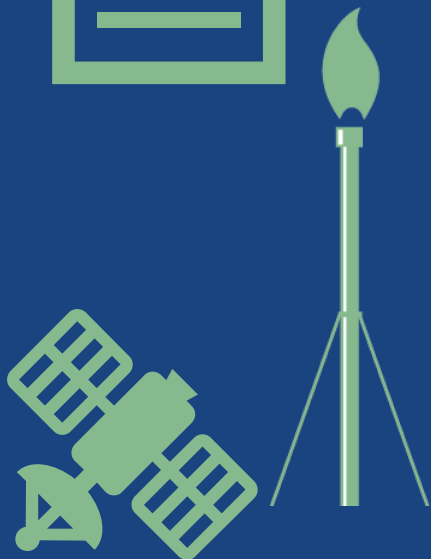
Drag file here or [choose from folder](#)

Image Description

\*Band/Algorithm in Image. Text description of image bands or algorithm used in image.

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# Form to Submit Event Data



## Source Coordinates



Please ensure latitude and longitude coordinates are accurate within 50 meters and precise to 4 decimal places and follow the North American Datum of 1983 (NAD83).

Enter in the coordinates using decimal degrees, noting that negative latitude represent the southern hemisphere, and negative longitude represent the western hemisphere.

### Top Left Corner:

Latitude

Longitude

### Top Right Corner:

Latitude

Longitude

### Bottom Left Corner:

Latitude

Longitude

### Bottom Right Corner:

Latitude

Longitude

# Form to Submit Event Data



## Emission Information

Quantified Emission Rate (kg/hr) \*

Associated Uncertainty Bounds (1 standard deviation) (kg/hr) \*

Does this notification appear to be from the same source as a previously submitted emissions event? If so, list the notification ID of associated leaks.

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# Form to Submit Event Data



## Associated Metadata



Please fill out the following fields if they were used in your calculations. Note that all values must be numerical and in standard units.

Wind Speed (m/s)

Wind Direction (Degrees °)

Temperature (°F)

Humidity (g/kg)

### Additional Inputs

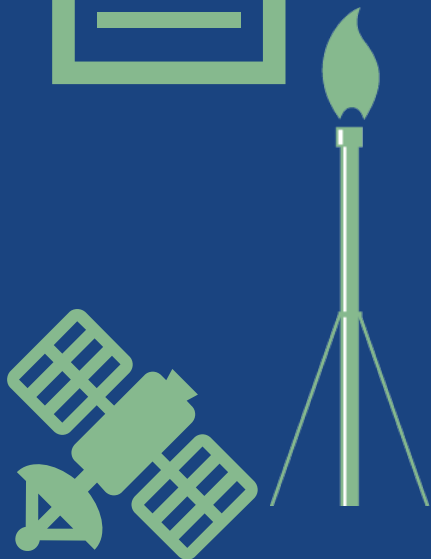
Input Title

Input Value

[+ Add Another Input](#)

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# Form to Submit Event Data



## Optional Additions

Additional Information

Attachment(s)

Drag file here or [choose from folder](#)

## Attestation

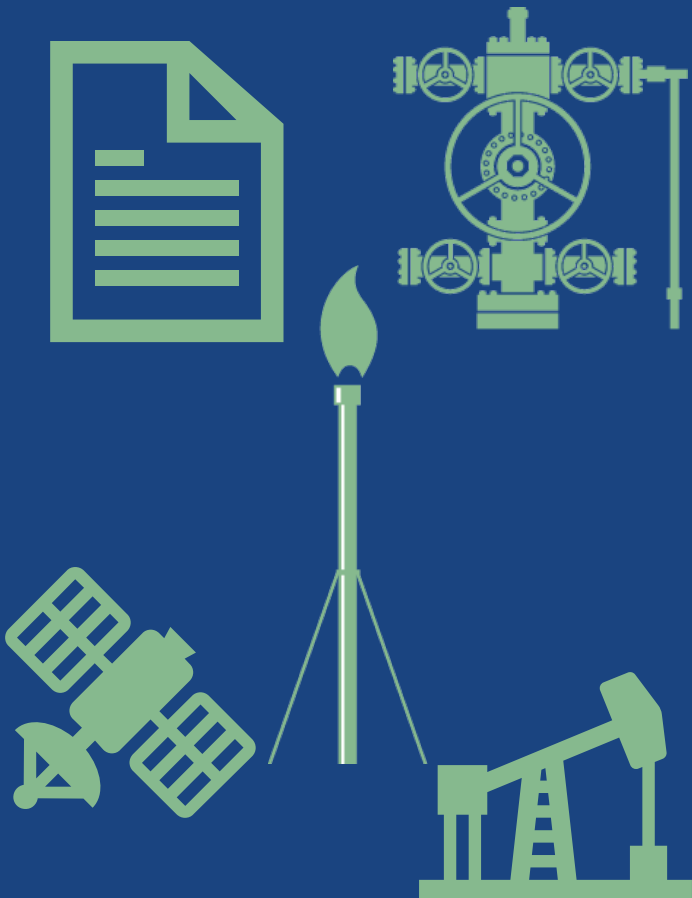
I certify that I have been approved to be a notifier under 40 CFR 60.5371b(b) and that the emission detection information included in this notification was collected and interpreted as described in this notification. Based on my professional knowledge and experience, and inquiry of personnel involved in the collection and analysis of the data, the certification submitted herein is true, accurate, and complete.

Digital Signature

Drag file here or [choose from folder](#)



# Owner/ Operator Response



## Notification Information

Notification Report ID \*

### Notification Coordinates

Latitude: 35.1789 Longitude: -147.2569

Are you the owner or operator or responsible official (where applicable) of an oil and natural gas facility (e.g., individual well site, centralized production facility, natural gas processing plant, or compressor station) within 50 meters from the latitude and longitude provided in the EPA notification? \*

☒ Yes ☐ No

### Facility Information

If the EPA ID # or API Well ID # in the notification was incorrect, please input the correct ID in the field below.

EPA ID #

OR

API Well ID #

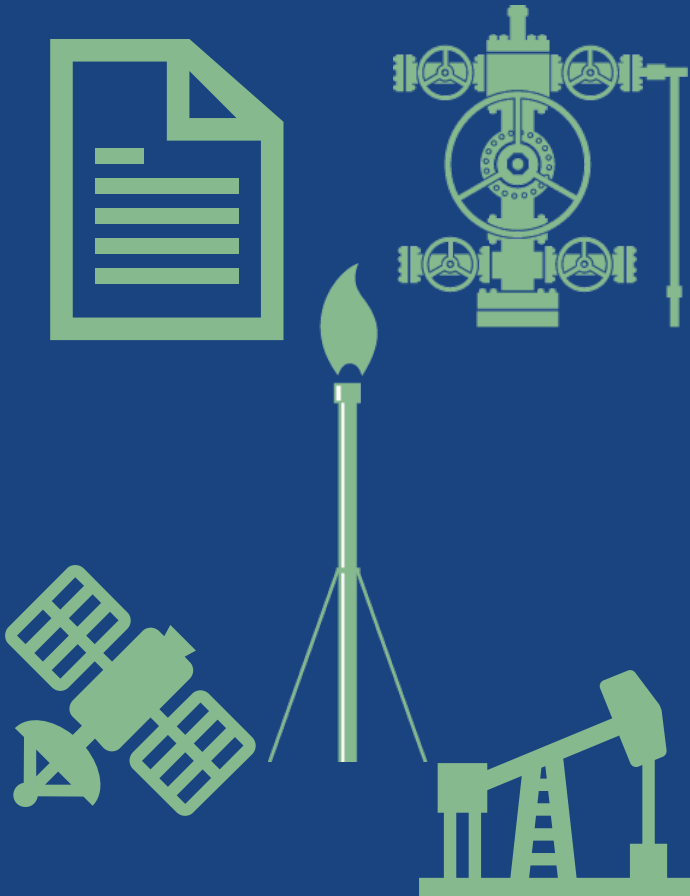
Facility Name \*

Address/City/State/Zip \*

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# Owner/ Operator Response



## Demonstrable Error

Do you assert a demonstrable error in the notification? \*

☐ Yes ☐ No

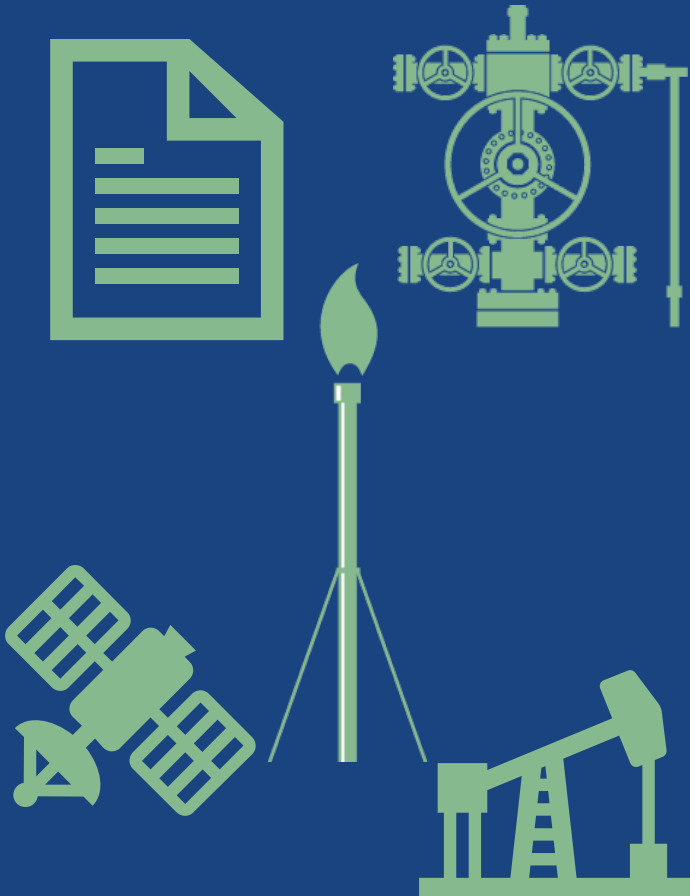
Evidence

Drag file here or [choose from folder](#)

Statement of Demonstrable Error  
(required if asserting a demonstrable error)

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# Owner/ Operator Response



## Applicability and Identification

Is there an affected facility or associated equipment subject to regulation under NSPS 0000, NSPS 0000a, NSPS 0000b, and/or a State or Federal Plan implementing 0000c at this oil and gas facility? \*

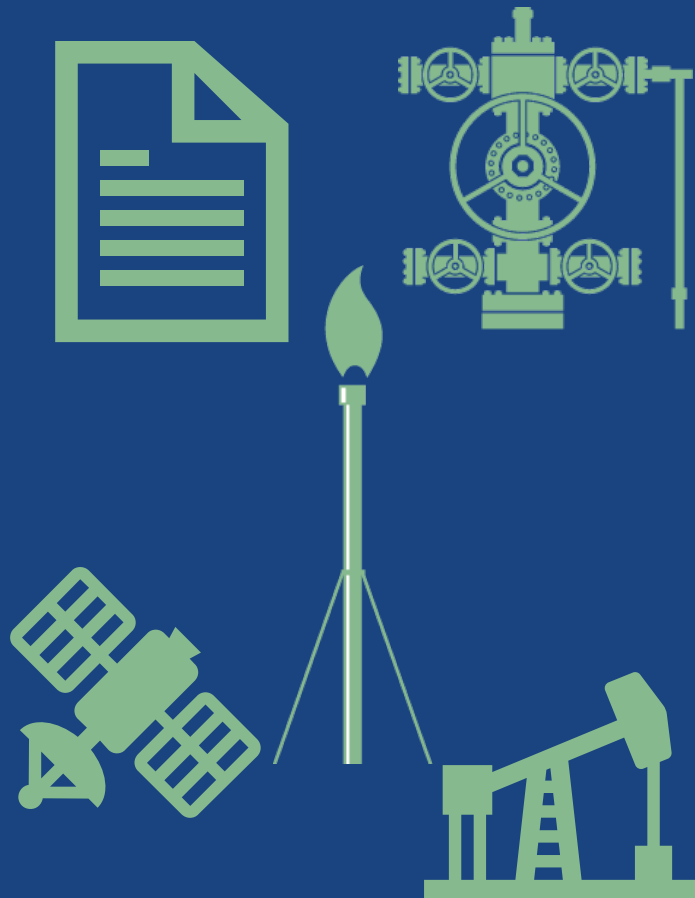
☐ Yes ☐ No

Did you identify the source of the super emitter event? \*

☐ Yes ☐ No

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# Owner/ Operator Response



## Search for Source



Did you conduct the applicable investigations listed in (d)(2)(i)-(v)?

- ☐ (i) Review any maintenance activities or process activities
- ☐ (ii) Review all monitoring data from control devices
- ☐ (iii) Review the results of a fugitive emissions survey or periodic screening event
- ☐ (iv) Review continuous monitoring data
- ☐ (v) Screen the entire oil and natural gas facility with OGI, Method 21 or an alternative test method

Alternative Test Method(s) approved per § 60.5398b(d), such as MATM-XXXX

What day was this investigation? \*

mm/dd/yyyy



What time?

What time zone?

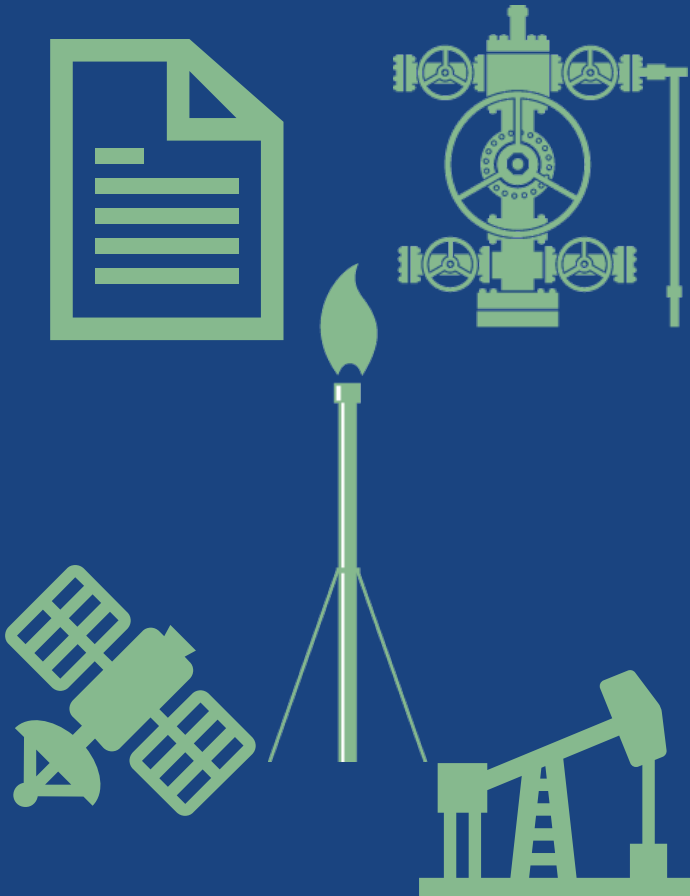
No Restrictions



☐ I certify that all applicable investigations specified in paragraph (d)(6)(i) through (v) of this section have been conducted for all affected facilities and associated equipment subject to this subpart that are at this oil and natural gas facility. \*

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# Owner/ Operator Response



## Evaluation of Source

What was the source of the emission? \*

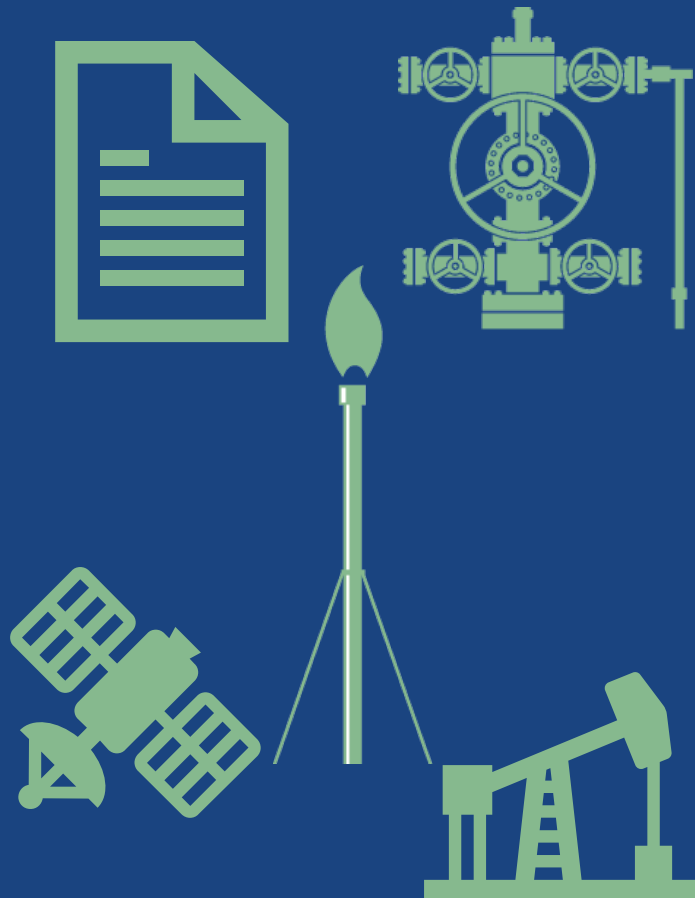
Is the source subject to regulation under NSPS 0000, NSPS 0000a, NSPS 0000b, and/or a State, Tribal or Federal Plan implementing 0000c? \*

☐ 0000 ☐ 0000a ☐ 0000b ☐ 0000c ☐ None

Please identify by citation the applicable regulation(s) within each applicable subpart

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# Owner/ Operator Response



## Status and Response Plan

Is this emission event ongoing? \* ☐ Yes ☐ No

What day did the emission event end? If the date is unknown, an estimate should be provided. (required if no to previous question)

mm/dd/yyyy

Is the above date an estimate? (required if the emission is ended)

☐ Yes ☐ No

What time?

What time zone?

No Restrictions

Targeted End Date (required if emission is ongoing)

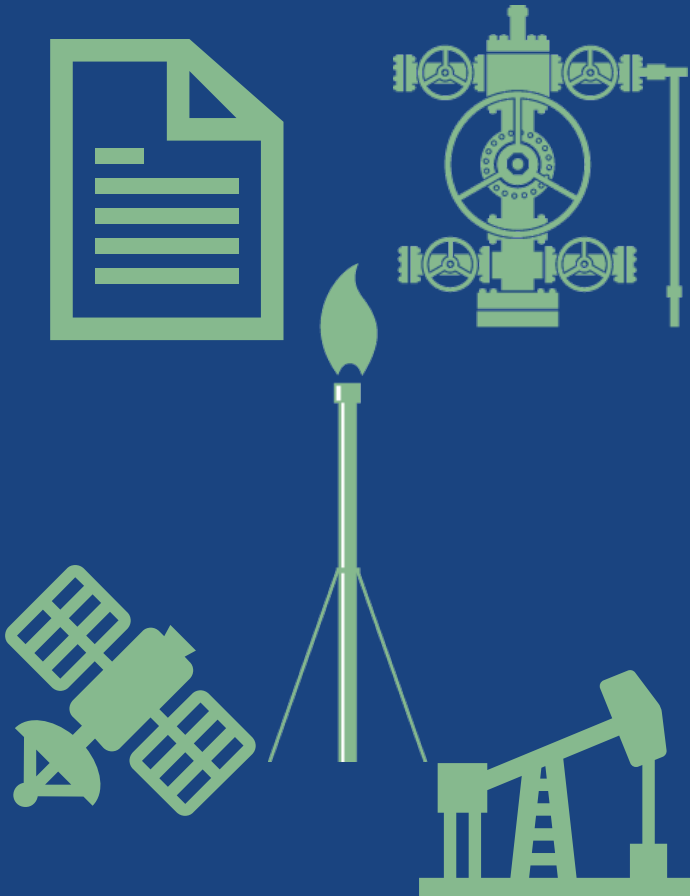
mm/dd/yyyy

Provide a short narrative of your plan to end the super-emitter event \*

Response Narrative Attachment(s)

Drag file here or [choose from folder](#)

# Owner/ Operator Response



## Attestation

I certify that the information provided in this report regarding the specified super-emitter event was prepared under my direction or supervision. I further certify that the investigations were conducted, and this report was prepared pursuant to the requirements of §60.5371b(d) and (e). Based on my professional knowledge and experience, and inquiry of personnel involved in the assessment, the certification submitted herein is true, accurate, and complete. I am aware that knowingly false statements may be punishable by fine or imprisonment.

Digital Signature

Drag file here or [choose from folder](#)

**DRAFT: UNDER OMB REVIEW**



# Data Portal

## Methane Super Emitter Program Dashboard

Filter Data



Methane Events



Map  
Legend



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# Data Portal

## Methane Super Emitter Program Dashboard

### Filter Data

#### Event Characteristics ?

Notification Status

No Restrictions



EPA Region [\(View EPA Regional Map\)](#)

No Restrictions



State

No Restrictions



Methane Emission Amount (lbs)



County

Select a State/Territory Above



ZIP Code

Detection Date

mm/dd/yyyy



End Date

mm/dd/yyyy



Response Date

mm/dd/yyyy



Facility Latitude

Facility Longitude

Latitude/Longitude Search  
Radius

No Restrictions



Search

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**More  
information is  
available on  
EPA's website**



## **Website for the final rule:**

<https://www.epa.gov/controlling-air-pollution-oil-and-natural-gas-operations/epas-final-rule-oil-and-natural-gas>

# Questions and Closing Remarks

