



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

Regulation 13: Climate Pollutants, Rule 1: Significant Methane Releases

Workshop Series

November 1, 2018: San Francisco, CA

November 5, 2018: Martinez, CA

November 7, 2018: Dublin, CA

November 8, 2018: San Jose, CA



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Office of Rules and Strategic Policy

Outline

- Why Focus on Methane?
- Climate Pollutant Rule Development Overview
- Draft Regulatory Concepts
- Rule Development Schedule
- Conclusion



Why Focus on Methane?

- Methane is 86 times more potent than carbon dioxide (CO₂) *[on a 20-year horizon]*
- Air Districts support State's CH₄ emissions reduction goal of 40% by 2030 (SB 1383)
- Current Inventory: 10 Million MT CO₂e *[20 yr. GWP]*
 - ***Top-down studies indicate Bay Area methane emissions may be 1.3 – 2.3 times higher [Fairley and Fischer 2015; Jeong et al., 2017]***



Climate Pollutants Rule Development

Map to systematically reduce emissions

OIL & GAS



Regulation 13: Climate Pollutants

Significant Methane Releases [Reg. 13-1]

Natural Gas Processing & Distribution [SB 1371]

Crude Oil & Natural Gas Production [Reg. 8-37]

Refineries

BIOLOGICAL



Organic Material Handling [Reg. 13-2]

Composting [Reg. 13-3]

Wastewater Treatment and Anaerobic Digestion [Reg. 13-4]

Landfills [Reg. 8-34]

Climate Pollutants Rule Development

Stakeholder Outreach Effort

PRE-WORKSHOP STAKEHOLDER MEETINGS

Industry

- Petroleum refineries
- Landfill operations
- Bulk plants/terminals
- Wastewater treatment
- Natural gas operations

Non-Governmental Groups

- 350 Bay Area
- Environmental Defense Fund
- Western States Petroleum Association (WSPA)
- California Council for Economic and Environmental Balance (CCEEB)



Climate Pollutants Rule Development

Stakeholder Outreach Effort (Cont'd)

EXPERT PANELS AND OTHER EVENTS

Expert Panel Topics

- Significant methane releases
- Oil and gas production
- Composting and anaerobic digestion
- Composting: operators' perspective

Events

- Organics Recovery Strategy Regional Convening
- Site visits to multiple industries
- Staff Training





Draft Regulation 13, Rule 1

General concepts

13-1: Significant Methane Releases

PURPOSE *to compel facilities to abate major releases rapidly; will act as **backstop** while source-specific rules are adopted*

CONCEPT *Limits emissions from significant CH₄ releases*

SCHEDULE

WORKSHOPS

Fall 2018

TO BOARD

First Half 2019



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Regulatory Concepts

STANDARDS

Methane releases shall be abated if

EMISSIONS

> 10,000 PPM

FIX TIMES

Releases

MINIMIZE RELEASE

WITHIN 3 DAYS

ABATE RELEASE TO 500 PPM

WITHIN 14 DAYS

Recurrent releases

MINIMIZE RELEASE

WITHIN 3 DAYS

ABATE RELEASE TO 500 PPM

WITHIN 7 DAYS



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Regulatory Concepts (cont'd)

LIMITED EXEMPTIONS

- **All sources:** if methane emissions < 10 lb/day for each of 3 consecutive days
- **Refinery flares:** if operator can show that each flare sufficiently destroys the methane
- **Maintenance or repairs:** exempt if abatement requirements are met within 3 days
- **Landfill working face:** exempt if abatement requirements are met within 3 days



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Regulatory Concepts (cont'd)

OTHER REQUIREMENTS

- **Post-Abatement Monitoring**
- **Recordkeeping**
- **Reporting**



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Regulatory Concepts (cont'd)

MANUAL OF PROCEDURES

- **Determination of Concentration**
- **Determination of Mass Emissions**
 - **Type A Sources**
 - **Type B Sources**

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Next Steps

- Workshops and Comment Period

Submit written comments
to: wsaltz@baaqmd.gov
by November 13, 2018



- Amend Draft Rule as Appropriate
- Publish Proposed Rule and Staff Report
- Public Hearing in early 2019

Questions

Draft Rule 13-1



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