



BAY AREA Air Quality

MANAGEMENT

DISTRICT

## \* Regulation 13: Climate Pollutants, Rule 1: Significant Methane Releases



Climate Protection Committee Meeting September 20, 2018

> William Thomas Saltz Office of Rules and Strategic Policy

## Outline

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

# Why Focus on Methane?



- Methane is 86 times more potent than carbon dioxide (CO<sub>2</sub>) [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 CO<sub>2</sub>e [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]



## **Methane Rule Development**

Map to systematically reduce methane emissions





## Methane Rule Development Stakeholder Outreach Effort

# Eight separate meetings with a variety of stakeholders

**Petroleum Refineries** 

Landfill Operations

Wastewater Treatment Natural Gas Storage and Distribution



## 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* 







## Draft Regulation 13, Rule 1 Regulatory Review

#### **STANDARDS** *Methane releases shall be abated if*

**EMISSIONS** > 10,000 PPM

**FIX TIMES** *Releases* 

MINIMIZE RELEASE WITHIN 3 DAYS

Recurrent releases

MINIMIZE RELEASE WITHIN 3 DAYS ABATE RELEASE TO 500 PPM WITHIN 14 DAYS

ABATE RELEASE TO 500 PPM WITHIN 7 DAYS **Draft Regulation 13, Rule 1** *Regulatory Review (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

## Draft Regulation 13, Rule 1 Regulatory Review (cont'd)

## **Other Requirements**

- Post Abatement Monitoring
- Recordkeeping
- Reporting



## Draft Regulation 13, Rule 1 Next Steps

#### • Workshops and Comment Period

#### Early Fall 2018

Submit written comments to: *wsaltz@baaqmd.gov* 



- Amend Draft Rule as Appropriate
- Publish Proposed Rule and Staff Report
- Public Hearing in late 2018/early 2019

## Rule 13-1

## **Questions / Contact Info**



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MANAGEMENT DISTRICT AGENDA: 5

## **Organics Recovery Strategy**



Dr. Chad White Senior Planner



## **Key Points**

- Support for emerging sector / methane reduction
- Need to minimize criteria, toxic, and climate emissions
- Opportunities for BAAQMD and Bay Area leadership

#### **Strategic Directions**

- Scientific investigation of emissions and sources
- Regulation through best practices, mitigation measures
- Support and guidance for local government
- Convening to encourage resilience and facilitate consensus

#### **Drivers**

GHG + Waste Reduction Goals Growth of Recovery Operations Sustainable Development of California Bio-economy

## **Achieving 75% Diversion**



#### **Recovery Options**



#### Vision



GHG = Greenhouse Gas

#### **Strategy**



Listening to and Engaging Community Concerns

## **Engagement Examples**

•	Compost - Methane Strategy Expert Panel	Nov 2017
•	Anaerobic Digester Operator Training	Feb 2018
•	Anaerobic Digester Short Course	Mar 2018
•	Compost - Methane Strategy Expert Panel	Jun 2018

 Regional Event: "Developing a Sustainable Organics Recovery Sector" June 25, 2018 (Bay Area Metro Center)

Rules that Ensure Best Practices	Regulation 13: Methane	
	Reg 13-2	Reg 13-3
TITLE	organic material handling	composting operations
SOURCES	handling and storage of materials	decomposition stages of composting
EMISSIONS	methane · VOC	methane · VOC
CONCEPT	<ul> <li>Recordkeeping/Reporting</li> <li>Registration and Permitting</li> <li>Best Management Practices</li> </ul>	<ul> <li>Best Management Practices</li> <li>Mitigation Measures</li> <li>Controls/Abatement</li> </ul>
SCHEDULE	Workshop: spring 2019 To Board: summer 2019	Workshop: spring 2019 To Board: summer 2019

Development Assistance to Local Governments

# **Planning and Policy Support**

- Encouraging life-cycle understanding and approaches
  - Determining best practices in waste contracting
  - Determining best practices in source separation
  - Determining best practices in procurement and application
- Encouraging resilient local recovery infrastructure
  - Supporting local siting and rightsizing
  - Supporting organics diversion planning
  - Assuring access to recovery infrastructure
- Linking to climate action and adaptation planning
  - Encouraging return of materials to soils
  - Facilitating capture of carbon credits for sequestration

#### **Takeaway Points**

- Strategy support organics recovery to reduce methane
- Complexities and trade-offs in this endeavor
- Circumstances position BAAQMD as leader in this space

#### **Next Steps**

- Advance understanding and characterization of emissions
- Proceed with development of Regs 13-2 and 13-3
- Partner with local government re: best practices, guidance
- Look to support sector development and "OrgTech" economy