



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

AGENDA: 3

Update on Rule Development Efforts

**Stationary Source Committee
April 22, 2020**

**Greg Nudd
Deputy Air Pollution Control Officer**



- Assembly Bill (AB) 617 Expedited Best Available Retrofit Control Technology (BARCT) Implementation Schedule
 - Amendments to Rule 6-5: Petroleum Refinery Fluidized Catalytic Cracking Units
 - Amendments to Rule 8-5: Storage of Organic Liquids
 - Amendments to Rule 8-8: Petroleum Wastewater Treatment
- Methane Strategy
 - New Rule 13-2: Organic Material Handling Operations
 - New Rule 13-3: Composting Operations
 - New Rule 13-5: Hydrogen Production Systems

AB 617 Expedited BARCT Implementation Schedule



- Requires air districts to develop and adopt an expedited schedule for implementation of BARCT
- Adopted by Board of Directors in 2018
- Identified potential rule development efforts to implement BARCT at industrial Cap-and-Trade facilities
 - Amendments to Rule 6-5: Petroleum Refinery Fluidized Catalytic Cracking Units
 - Amendments to Rule 8-5: Storage of Organic Liquids
 - Amendments to Rule 8-8: Petroleum Wastewater Treatment

Amendments to Rule 6-5: Petroleum Refinery FCCUs



- Address Particulate Matter (PM) emissions from petroleum refinery Fluidized Catalytic Cracking Units (FCCUs)
- Large source of PM emissions, including condensable PM
- Potential for substantial PM reductions to achieve public health benefits and continue progress towards attainment
- Rule development process:
 - Early engagement with technical working group in 2019
 - Draft amendments in April 2020 for public review and comment
 - Anticipated consideration by Board of Directors in November 2020

Amendments to Rule 8-5: Storage of Organic Liquids



- Address emissions of volatile organic compounds from organic liquid storage tanks and reduce:
 - Volatile organic compounds
 - Toxic air contaminants
- Potential to reduce community exposure to toxics
- Rule development process:
 - Early engagement with technical working group in 2019
 - Draft amendments in May 2020 for public review and comment
 - Anticipated consideration by Board of Directors in September 2020

Amendments to Rule 8-8: Wastewater Collection and Separation Systems



- Address emissions of volatile organic compounds from petroleum wastewater treatment systems and reduce:
 - Volatile organic compounds
 - Methane
 - Toxic air contaminants
- Potential to reduce community exposure to toxics
- Rule development process:
 - Early engagement with technical working group in 2020
 - Draft amendments in May 2020 for public review and comment
 - Anticipated consideration by Board of Directors in September 2020

Methane Strategy



- Developed as a component of the 2017 Clean Air Plan
- Improve understanding of methane emissions and identify emission reduction strategies
- Regulatory efforts to reduce methane emissions from various sources, including organics recovery, oil and gas, and other industrial sectors
 - New Rule 13-2: Organic Material Handling Operations
 - New Rule 13-3: Composting Operations
 - New Rule 13-5: Hydrogen Production Systems

New Rules 13-2 and 13-3



- Address methane and volatile organic compound emissions from organic material handling and composting operations, including those which may cause odors
- Anticipated increases in capacity and number of facilities due to statewide diversion mandates
- Rule development process:
 - Early engagement and workshops on regulatory concepts in 2018
 - Combined draft rule presented in 2019 workshops
 - Considered comments and further engagement with industry stakeholders
 - Separate rules for organic material handling (Rule 13-2) and composting operations (Rule 13-3)

New Rules 13-2 and 13-3



- Rule 13-2: Organic Material Handling Operations
 - Draft rule published in January 2020 for public review and comment
 - Further work needed to improve data gathering methods
 - Continue stakeholder engagement to develop best management practices and further assess emissions/controls
- Rule 13-3: Composting Operations
 - Continue stakeholder engagement to develop best management practices and further assess emissions/controls

New Rule 13-5: Petroleum Refinery Hydrogen Systems



- Address methane and volatile organic compound emissions from hydrogen plants and hydrogen production operations
- Development process:
 - Early engagement with technical working group in 2019
 - Draft amendments presented at public workshop in January 2020
 - Anticipated consideration by Board of Directors in August 2020