

California Air Resources Board
January 10, 2017 – Cal/EPA Headquarters

Presentation Ove v. v

- Background
- Key Emission Guideline Revisio
 - **Compliance Strategy Concepts**
- Next _ ^
- Questions
 - If attending via webcast, send questions to: sierrarm@calepa.ca.gov

Background

Purpose of the federal landfill rules is to reduce landfill gas emissions, which contains non-methane organic compound emissions and methane emissions, from MSW landfills

New Source Performance Standards (NSPS)

Federal Rules for New Municipal Solid Waste (MSW) Landfills

Promulgated in 1996 40 CFR Subpart WWW

MSW landfills for which construction, reconstruction, or modification commenced on or after May 30, 1991

Promulgated August 2016 40 CFR Subpart XXX

MSW landfills for which construction, reconstruction, or modification commenced after July 17, 2014

Della Calaparte continue to apply

Emission Guidelines (EG)

Federal Rules for Existing MSW Landfills

Promulgated in 1996 40 CFR Subpart Cc	Promulgated August 2016 40 CFR Subpart Cf
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reconstant or before May 50,	conced of inection, or on, or only 11, 2014

Subpart Cf REPLACES Cc

Background

Federal Rules for Landfills

- Clean Air Act Section 111(d) requisions states to submit plans detailing implemention of Emission Guidelines for existing landfills
- November 22, 1999, U.S. □ 7.1 approved California's State Plan for previous Suppart Cc

Background

Federal Rules for Landfills

- Requirements for newly promulgated Subpart Cf are similar to Subpart XXX, except it:
 - Contains different definitions and a new "closed landfill subcategory"
 - Is written as "instructions" to the Cate
 - Requires states to submit an updated plan, <a>:

May 30 2017

State Plans

Major Components of State Fial

- Legal Basis and Authority; Identification Control Enforceable Mechanism
- Emission Standards and Compliance Schedules
- Test Methods; Monitoring, hours dkeeping and Reporting Requirements

State Plans

Major Components of State Fial

- Legally Enforceable Increments of Progress Towards Compliance
- Source and Emission Inventories
- Annual Emission Reporting and Progress Reports

State Plans

<u>Major Components of State Ре</u>

- Public Participation
- Process for Review and Approval of Site-Specific Gas Collection and Control System Carion Plans

Key Emission Guideline Revisions

Key Emission Guideline Revisions

- NMOC Emission Threshold
 - 50 Mg/yr threshold which triggers the need for a gas collection and control system (GCCS) was lowered to 34 Mg/yr, except for:
 - Landfills in the "closed landfill subcategory" NMOC threshold is 50 Mg/yr
- Landfill Gas Treatment
 - New definition
 - monitoring plan

Key Emission Gu. 'も ら Revisions

- Surface Emissions Monitoring
 - All penetration points must be monitored
 - Latitude and longitude must be recorded for each exceedance location
- Tier 4
 - Surface demonstration test to determine if a GCCS is required to be installed to MOC cmissions equal or exceed 34 Mg/yr

Key Emission Guideline Revisions

- Wellhead Criteria
 - Must monitor oxygen, nitrogen and temperature and wellhead pressure
 - Wellhead monitoring thresholds for oxygen and nitrogen have been removed
- Criteria for Removing GCCS
 - Landfill must be closed
 - GCCS operated 15 years
 - INIVIOU COA IVIG/yi (COO IVIG/yi for closed

Key Emission Guideline Revisions

- Startup, Shutdown, and Malfunction
 - Surface demonstration test to determine if a GCCS is required to be installed once NMOC emissions exceed 34 Mg/yr.
- Rule Clarifications and Minor Changes
 - Design Plans
 - Electronic Reporting
 - I est iviethods
 - Waste Definitions

Key Emission Gu. 'e e Revisions

- Rule Clarifications and Minor Changes
 - iquids Addition Landfills
 - Police "10ters
 - LOw-in Aiv

Compliance Strategy Concepts

Compliance Strategy Con spts

Updated State Plan

- Air Resources Board and local air districts ha until May 30, 2017, to prepare and submit a revised State Plan
- U.S. EPA has an additional four months to approve or disapprove the State Plan
- With public input, compliance such and developed by Landfill Workgroup

Considering One of Two aths

Two Potential Paths:

- Equivalency Determination
 - Show ARB's Landfill Methane Regulation satisfies Subpart Cf Requirements; or
- Districts Revise their Landfill Rules
 - ARB works with districts to refer their existing landfill rules to implement the new Emission Guidelines

Potential Path

Equivalency Determination

- Landfill Methane Regulation
 - Applies to more landfills than Subpart Cf
 - More stringent requirements for methane collection and control, component leak testing, surface emissions monitoring, and compliance times than Subpart C.
 - Already being implemented by ARB and air uisings

Potential Path

Equivalency Determination

- Benefits of Equivalency
 - Reduces regulatory burden
 - Simplifies compliance with state and federal regulations
- Requires coordination with EPA

Potential ath.

Revision of District Landfin Pules

- ARB provides technical guia ce of Districts:
 - Replace outdated references in curre. * district landfill rules.
 - ARB assists districts as rucesary in adopting rules

Environmental Justice Co. erns

Environmental Justice Advisory Committee

- Staff do not anticipate increased impacts to disadvantaged communities, regardless of chosen compliance path
- Ensures state actions do not negatively impact disadvantaged communications

Next Steps

Next Steps

- Solicit written Public Comments until 5:00PM February 10, 2017
- Continue to work with the Landfill Workgroup on developing a compliance strategy
- Feb or March Second Public Meeting to present staff's recommendations
- April 2017 ARB informational haring to consider staff proposed plan

Contacts

Submit comments and sign นา for landfill listserv at ARB's Landfill Website: http://www.arb.ca.gov/cc/landfills/landfills.r.tm

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Questions During the Meeta T. v be Emailed to Sierrahearingrm@calepa gov

Written Comments by 2017 to ARB's Lanum

http://www.arb.ca.gov/cc/landfilis/landfills htm