

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

- Created by the State Legislature
- Four County Jurisdiction
 - 12,000 square miles
 - More than 16 million people
- Stationary Source Regulation
- Selected Transportation Controls

HOW DOES THE AQMD OPERATE?

- The AQMD Regulates Emissions From More Than 30,000 Facilities
 - Air Quality Management Plan
 - Rules to Enact Federal, State and Local Standards
 - Permits for Equipment with the Potential to Pollute (Over 70, 000 Permits)
 - Inspection Program to Ensure Compliance

HOW DOES THE AQMD OPERATE?

- Responds to Citizen Complaints
- Measures Air Quality At Over 30 Locations
- Multiple Air Toxics Exposure Study (MATES)
- Helps Industry and the Public to Understand AQMD Regulations

AQMD COMPOSTING REGULATIONS

- Background
- Rule 1133 Series
- Portable Engines
- Odors and Dust

AQMD Composting Regulations

- David Jones

- Air Quality Analysis and Compliance Supervisor (Senior Supervisor, Compliance)
- Engineering and Compliance Division
- Toxics and Waste Management Team
- 909-396-2317
- djones@aqmd.gov

BACKGROUND

- Control Measure WST – 02 – Emission Reductions from Composting 1994, 1997 AQMP; & 1999 Amendment to 1997 Ozone State Implementation Plan (SIP).
- Identification of emissions inventory and technically and economically feasible control options for composting operations

BACKGROUND

- From composting, VOCs and ammonia are precursors to ozone and PM10 emissions
- Inventory estimated at 6.8 tons per day for VOC; and 4.7 tons per day for ammonia.

South Coast AQMD

Rule 1133 Series –

Greenwaste and Composting

Rule 1133– General Administrative
Rule 1133.1– Chipping & Grinding
Rule 1133.2– Co-composting
Proposed Rule 1133.3 – Greenwaste
Composting (2010)

Rule 1133 Composting and Related Operations: Gen Admin Requirements

- Purpose: Create an emissions-related database on composting and related operations
- Applicability: Chipping and grinding, and composting operations unless otherwise exempt
- Registration for existing operations starting 2003; and new facilities
- One-time fee
- Yearly updates
- Exemptions

Rule 1133 - Exemptions

- Portable chipping and grinding
- Community composting
- Agricultural composting
- Nursery composting
- Recreational facilities composting
- Backyard composting
- Woodwaste chipping and grinding facilities

Rule 1133.1 – Chipping and Grinding Activities

- Purpose: Prevent inadvertent decomposition occurring during chipping and grinding
- Applicability: Chipping and grinding activities
- Exemptions:
 - Greenwaste generated and used onsite
 - Portable, agricultural, land-clearing, wood-waste , and palm
 - Curbside greenwaste less than 30% in moisture

Rule 1133.1 – Chipping and Grinding Activities

- Chip, grind, or use on-site curbside greenwaste within 3 days
- Chip, grind, or use on-site non-curbside greenwaste within 14 calendar days
- Remove, or use on-site, chipped or ground curbside greenwaste within 3 days of being chipped or ground.
- Recordkeeping

Rule 1133.2 – Emission Reductions From Co-composting Operations

- Purpose: Reduce Volatile Organic Compounds (VOC) and ammonia emissions
- Applicability: new and existing co-composting operations
- Co-composting – is composting where biosolids and/or manure are mixed with bulking agents to produce compost

Rule 1133.2 – Co-composting Requirements for new operations

- Conduct all active co-composting within the confines of an enclosure
- Conduct all curing using an aeration system that operates under negative pressure
- Vent the exhaust from the enclosure and the aeration system to an emissions control system at least 80% efficient to control VOC and ammonia
- May submit equivalent compliance plan instead

Rule 1133.2 – Requirements for existing co-composting operations

- Submit a compliance plan for reduction of 70% by weight for VOC and ammonia emissions
 - By January 1, 2007 for design capacity of 100,000 tons per year or more
 - By January 1, 2008 for design capacity of 10,000 – 100,000 tons per year
 - By January 1, 2009 for design capacity of less than 10,000 tons per year

Rule 1133.2 - Exemptions

- Agricultural composting operations
- Greenwaste composting operations
- Woodwaste composting operations
- Co-composting operations with a design capacity less than 1,000 tons/year
- Existing co-composting operations with a design capacity less than 35,000 tons/year containing 20% or less biosolids

Proposed Rule 1133.3

Greenwaste Only Composting

- **Control Measure in the 2007 AQMP (MCS-04)**
 - **Seeks to reduce VOC & PM2.5 emissions from greenwaste composting**
 - **Proper management of piles to minimize ammonia**
- **Draft Phase I Report Under Internal Review**
 - **Includes local facility survey results**
 - **Industry profile (< 20 facilities)**
 - **Outlines current management practices**
 - **Draft emissions inventory to be included**
 - **Release in summer 2009**

Proposed Rule 1133.3

- **Phase II: Working Group planned**
 - Rule development in 2010
 - Implement technically feasible & cost-effective Best Management Practices (BMPs)
- **Companion efforts by CIWMB**
 - Plans to conduct statewide greenwaste composting survey
 - Working with SJVUAPCD on source testing BMPs & emission control factor development
 - Funded several studies on emissions characterization, digestion technologies, & BMPs

Proposed Rule 1133.3

- **Contact:**

- **Tracy Goss, PE**
Program Supervisor
- **909/396-3106**
- **tgoss@aqmd.gov**

- **Meetings anticipated to begin Fall 2009**

- **Send e-mail to Mr. Goss to be added to mailing list for future meetings & available documents**

Portable Equipment Permitting

- Portable internal combustion engines > 50 horsepower are subject to AQMD permits.
- Conveyors, screening equipment.
- Check with AQMD – Permitting Supervisor Charlie Tupac – 909-396-2684
- Various location permits for equipment that remains at one location < 12 months.
- If > 12 months equipment requires stationary source permit.

Portable Equipment - PERP

- State of California Portable Equipment Registration Program (PERP)
- Registration for 3 years
- Obtain application forms and information at www.arb.ca.gov/portable/perp/perp.htm
- Complete forms and supply all requested info.
- Calculate fees and enclose payment

Portable Equipment - PERP

- Send to:
ARB/PERP
P.O. Box 2038
Sacramento, CA 95812
- Need help? Call: 916-324-5869 or e-mail portable@arb.ca.gov.
- AQMD PERP Hotline: 909-396-2325

Portable Equipment - PERP

- All registrations must have a designated home district.
- All registered equipment must have a sticker.
- Inspections by District every three years with inspection fee.
- Within 45 days after initial registration or renewal date, you must contact the home district to arrange an inspection.

Odors and Dust

- Public Nuisance from Odors
 - AQMD Rule 402; Health and Safety Code Section 41700
- Composting Permit from LEA: LEA handles odor complaints: H&S Section 41705
- AQMD Rule 403 – Fugitive Dust
 - Prohibits dust visible across property line
 - Prohibits dust > 20% opacity
 - Prohibits trackout > 25 feet; clean at end of day