Presentation Overview

- Major Revisions
- Scope of the Measure
- Discussion Items
- Next Steps
- Questions
ARB Proposed Control Measure

Major Revisions
- Applicability
- Exemption Conditions
- Surface Emissions Monitoring Requirements

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Major Revisions (Cont.)
- Calculations to Determine Landfill Gas Heat Input Capacity
- Time Requirement for Installing GCCS at Closed or Inactive MSW Landfills
- Cover Integrity Monitoring
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Major Revisions (Cont.)

- Component Leak Testing Standard
- Methane Outlet Concentration for Lean Burn Engines

Scope of the Measure

- Affects all MSW landfills that received waste after January 1, 1977
- ≥450,000 tons of WIP
  - Install a gas collection and control system, unless exemption requirements are met
  - Comply with statewide standards
- <450,000 tons of WIP
  - Must comply with specified reporting requirements
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**Scope of the Measure**
- Exemption allowed if owner or operator can demonstrate:
  - Landfill gas heat input capacity of < 3.0MMBtu/hr; and
  - Meets specified reporting requirements

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**Scope of the Measure (cont.)**
- Prepare a Design Plan subject to approval (12 months)
- Install and operate GCCS 18 months after approval of Design Plan; 30 months for closed or inactive MSW landfills
- Flexible control options including enclosed flares and landfill gas-to-energy facilities
- Open flares allowed only under temporary conditions
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Scope of the Measure (Cont.)

Performance Based Standards

- 500 ppm instantaneous surface methane emission limit
- 25 ppm integrated surface methane emission limit
- 500 ppm component leak limit
- Higher destruction efficiencies for gas control devices

Scope of the Measure (Cont.)

Surface Monitoring

- Quarterly surface emission measurements for active landfills
- Quarterly surface emission measurements reduced to annual (if in compliance) for inactive or closed landfills, or areas of active landfills that are closed or inactive
- 25-foot walking pattern spacing increased to 100-foot spacing (if in compliance)
Discussion Items

- Implementation and Enforcement of the Draft Control Measure
- Economic Analysis
  - Examine Incremental Cost of Compliance
  - Monitoring, Recordkeeping, and Reporting Costs
  - Control Cost Scenarios
  - Estimate Number of Landfills That Will Move In or Out of Compliance in Near Future
  - Other Costs

Next Steps

- Continue to work with stakeholders
- Late February 2009 – Staff Report available for a 45-day formal public review and comment period
- April 2009 – Air Resources Board hearing to consider control measure adoption
- Fall 2009 – Anticipated effective date of the control measure
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Landfill Methane Control Measure Website:
http://www.arb.ca.gov/cc/landfills/landfills.htm

Questions about the Draft Landfill Methane Control Measure?