

# ARB - PROPOSED REGULATION TO REDUCE METHANE EMISSIONS FROM MUNICIPAL SOLID WASTE LANDFILLS

Public hearing June 25-26, 2009

- Applies to MSW landfills that received solid waste after 1/1/77
- <450,000 tons in place submit Waste-in-Place annual report by March 15<sup>th</sup>
- ≥450,000 Within 90 days effective date – calculate **landfill gas heat input capacity** and submit report to ARB Executive Director
  - If <3.0 million BTU/hr, continue submit annual report
  - If >3.0 million BTU/hr, Comply §95464 to §95476
    - Submit Design Plan within one year after effective date
    - Install and operate gas collection and control system within 18 month after approval of Design Plan
    - Gas collection and control system – no leak >500 ppm
    - Enclosed Flare 99% destruction efficiency
    - Open Flare installed and operated prior to 8/1/08 may operate until 1/1/18
    - Operate after 1/1/18, if <3.0 MMBTU/hr & insufficient to support continuous operation flare
    - Conduct annual source test for any gas control device
      - Conducted within 180 days of initial start up
      - Annual required no later than 45 days after anniversary date initial test
      - If compliant after three source tests, test required every three years
      - If non-compliant, continue annual test
  - **§95465 – Surface Methane Emission effective 1/1/11, not exceed**
    - **Instantaneous surface emissions monitoring - <500 ppmv**
    - **Integrated surface monitoring - average methane 25 ppm**
  - **§95469 – Monitoring, Surface emission**
    - Instantaneous surface Monitoring
      - Closed or inactive landfill or area with no exceedances after four continuous quarters may monitor annually
    - Integrated surface monitoring 25 ppm
    - Procedures
      - Landfill divided into 50,000 square foot grid
      - Testing with probe within 3 inches
      - Walking pattern no more than 25-foot grid spacing
    - If no exceedances after 4 quarters, pattern increases to 100-foot intervals
    - Exemptions
      - Portions of slopes that are 30 degrees and greater,
      - Wet or icy surfaces, construction areas, and
      - Other dangerous areas may be excluded from landfill surface inspection.
      - Paved roads that do not have any cracks, pot holes, or other penetrations may also be excluded.
    - Terminate surface testing when average wind speed exceeds 5 mph or instantaneous exceeds 10 mph. Alternatives may be approved.
  - **§95468 – Alternative compliance**
    - Semi-continuous operation due to insufficient flow
    - Additional time for leaks
    - alternative wind speed

<b>ESJPA Landfills Forecasted to be Subject to Control Requirements</b>	
29-AA-0001	McCourtney Rd LF
11-AA-0001	Glenn County LF
05-AA-0023	Rock Creek LF
09-AA-0003	Union Mine DS
52-AA-0001	Red Bluff LF
04-AA-0002	Neal RD LF

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