

ANTELOPE VALLEY AIR QUALITY MANAGEMENT DISTRICT

**RULE 1150.2 -- CONTROL OF GASEOUS EMISSIONS
FROM INACTIVE LANDFILLS**

(Adopted: 10/18/85)

(a) Summary

The purpose of this rule is to reduce gaseous emissions from inactive landfills to prevent public nuisance and possible detriment to public health caused by exposure to such emissions. Based on the established criteria and from the available information, the District will determine whether the gas generated from the landfill needs to be collected. If so, the owner shall install a landfill gas control system approved by the Executive Officer.

The rule requires installation of the landfill gas control system sufficient to draw landfill gas toward the gas collection devices without overdraw that would adversely affect the system. Sample probes shall be installed at the perimeter of the landfill to monitor off-site migration. Sufficient landfill gas shall be collected to prevent the average concentration of total organic compounds over a certain area on the surface of the landfill from exceeding 50 ppm. The concentration of total organic compounds, and any toxic air contaminants shall be determined when the landfill gas control system commences operation and periodically thereafter. Air samples at the perimeter of the landfill shall be analyzed to determine off-site migration. Results from such determination shall be reported to the Executive Officer. The maximum concentration of organic compounds as methane, measured at any point on the surface of the landfill, shall not exceed 500 ppm.

The rule also requires the proper disposal of collected gas. The efficiency of the gas disposal system shall be determined when the landfill gas control system commences operation and periodically thereafter. Mitigation measures shall be implemented as necessary during the installation of the system to prevent public nuisance. Mitigation measures and methods of determination shall be approved by the Executive Officer.

(b) Definitions

For purposes of this rule, the following definitions shall apply:

- (1) An Inactive Landfill is a site where refuse had been disposed of on or before January 1, 1982, and no more subsequent refuse disposal activity had been conducted within the site.
- (2) Landfill Gas is any untreated raw gas derived through a natural process from the decomposition of organic waste deposited in a landfill or the evolution of volatile species in the waste.

- (3) Toxic Air Contaminant is an air contaminant which has been identified as a hazardous air pollutant pursuant to Section 7412 of Title 42 of the United States Code; or has been identified as a toxic air contaminant by the Air Resources Board pursuant to Health and Safety Code Section 39655 through 39662; or which may cause or contribute to an increase in mortality or an increase in serious illness, or potential hazard to human health.
- (4) Perimeter is the outer boundary of the entire waste disposal property.
- (5) Owner is a person whose name appears in the title of the property.

(c) Requirements

- (1) At any time after the adoption of this rule, but not later than 30 days after the receipt of a request, the owner shall submit to the Executive Officer preliminary information necessary to determine if further screening of the inactive landfill is necessary.
- (2) Within 90 days of the date of a second request, the owner of an inactive landfill shall submit to the Executive Officer additional information, as may be necessary to determine whether or not landfill gas control systems and/or gas monitoring systems are required to be installed in the landfill.
- (3) If the owner needs additional time to provide the information required in subparagraphs (c)(1) and (c)(2), he/she shall request an extension in writing from the Executive Officer, indicating the amount of time that is adequate and reasonable to obtain such information. Such request for extension shall be submitted to the Executive Officer within 30 days of the receipt of the Executive Officer's requests as specified in subparagraph (c)(1) and (c)(2).
- (4) The Executive Officer shall present to the Board the screening criteria used to determine the need for controls under subparagraph (c)(5). No notifications will be made for controls prior to approval of these criteria by the Board.
- (5) Upon notification by the Executive Officer that landfill gas control systems and/or gas monitoring systems are required, the owner of an inactive landfill shall:
 - (A) Install and maintain in good operating condition a landfill gas control system according to the design approved by the Executive Officer, which is sufficient to draw landfill toward the gas collection devices without overdraw that could cause excessive aerobic decomposition, fires, or damaging effect on the gas disposal system. Such system shall be extended as necessary to draw landfill gas to prevent off-site migration.

- (B) Install and maintain sampling probes at the perimeter of the landfill to determine if off-site migration exists. A plan for such installation shall be submitted to the Executive Officer for approval as part of the compliance plan.
- (C) Analyze the samples identified below for the concentrations of total organic compounds and any toxic air contaminants following installation of the landfill gas control system, and once a month or at greater intervals thereafter, as required by the Executive Officer. The sampling plan and methods of collection and analysis shall be reported to the Executive Officer as required and in the form and manner prescribed by him.
 - (i) Integrated air sample on the surface of the landfill over an area determined by the Executive Officer to be representative on a site-by-site basis.
 - (ii) Landfill gas collected by the gas control system.
 - (iii) Landfill gas from the sampling probes specified in subparagraph (c)(5)(B).
 - (iv) Air at the perimeter of the landfill.
- (D) Collect sufficient landfill gas with the landfill gas control system to prevent the concentration of total organic compounds in the sample specified in subparagraph (c)(5)(C)(i) from exceeding 50 ppm.
- (E) Not allow the maximum concentration of total organic compounds from exceeding 500 ppm measured as methane at any point on the surface of the landfill.
- (F) Dispose of ROG and toxic compounds in the landfill gas by any of the following processes which have been demonstrated to the satisfaction of the Executive Officer to achieve the maximum possible efficiency:
 - (i) Combustion.
 - (ii) Gas treatment and subsequent sale.
 - (iii) Sale and processing off-site.
 - (iv) Other equivalent methods.
- (G) Evaluate the efficiency of the combustion or the gas treating equipment when the system commences operation and annually thereafter. The evaluation shall be made in a manner approved by the Executive Officer, recorded, and maintained for at least two (2) years, and be available to the District for inspection.
- (H) Take approved mitigation measures during installation of the landfill gas control system to prevent public nuisance.
- (I) Submit to the Executive Officer a plan to comply with the requirements of this rule. Such plan shall include but not be limited to:

- (i) The means to meet the compliance schedule.
- (ii) The installation procedures and location of sampling probes.
- (iii) Sampling and test methods.
- (iv) Mitigation measures to be taken during the installation of landfill gas control system.
- (v) Mitigation measures to be taken when excessive concentrations are determined.

If after the installation of the landfill gas control system in accordance with the approved plan and the provisions of the permit to construct, the Executive Officer determines that in spite of all reasonable efforts by the owner, the limits cannot be attained, he may specify other attainable limits.

(d) Compliance Schedule

The owner of an inactive landfill shall meet the following compliance schedule:

- (1) From the date of notification from the Executive Officer that a landfill gas control system is required:
 - (A) Within 6 months submit a compliance plan specified in subparagraph (c)(5)(I).
 - (B) Within 12 months file an application with the District for a permit to construct and permit to operate a landfill gas control system.
- (2) From the date the permit to construct is issued:
 - (A) Within 6 months, award contract(s) for installation for the landfill gas control system.
 - (B) Within 12 months, begin installation.
 - (C) Within 24 months, complete installation
 - (D) Within 27 months, attain compliance with this rule.

(e) Fees

The owner of an inactive landfill shall be assessed applicable filing and evaluation fees pursuant to Rules 301, 301.1, 304, and 306.

(f) **Applicability of Other Rules**

Compliance with the provisions of this rule does not exempt a person from complying with the requirements of Section 41700 of the California Health and Safety Code, Rules 401 (Visible Emissions), 402 (Nuisance), 403 (Fugitive Dust), 1150 (Excavation of Landfill Sites) of the District's Rules and Regulations, or any other applicable law, statute, code, ordinance, rule, or regulation.

(g) **Exemptions**

A landfill may be exempt for all or any portion of the requirements of this rule if the owner can demonstrate to the satisfaction of the Executive Officer that due to the size, nature and age of the refuse, projected gas generation, or remoteness of the facility, there will be no adverse impact on air quality. Such exemption may be determined upon evaluation of the information obtained under the provisions of subparagraph (c)(1) or (c)(2) of this rule in accordance with the established screening criteria.

The exemption may be reviewed periodically by the Executive Officer to consider the development of the landfill surface and/or nearby property and the impact of such development on the public. Depending upon the results of the review, the Executive Officer may extend or terminate the exemption.

(h) **Summary Paragraph Intended Only as a Guide**

Paragraph (a) of this rule is intended only to summarize and give guidance in the interpretation and, if found to be in conflict with a provision of any other paragraph of this rule, shall yield to the provision in the other paragraph.

[SIP: Limited Approval/Disapproval 5/6/97, 62 FR 24574, 40 CFR 52.220(c)(164)(i)(E)(1)]

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