

ANTELOPE VALLEY AIR QUALITY MANAGEMENT DISTRICT

**RULE 1186 -- PM₁₀ EMISSIONS FROM PAVED AND UNPAVED ROADS,
AND LIVESTOCK OPERATIONS**

(Adopted: 2/14/97)

(a) Purpose

The purpose of this rule is to reduce the amount of particulate matter entrained in the ambient air as a result of vehicular travel on paved and unpaved roads, and at livestock operations.

(b) Applicability

The provisions of this rule shall apply to specified land uses and activities conducted within the South Coast Air Basin portion of the South Coast Air Quality Management District which result in fugitive dust.

(c) Definitions

- (1) AVERAGE DAILY TRIPS (ADT) means the average number of vehicles that cross a given surface during a specified 24-hour time period as determined by the most recent Institute of Transportation Engineers trip generation manual, tube counts, or observations.
- (2) CHEMICAL STABILIZERS mean any non-toxic chemical dust suppressant which must not be used if prohibited for use by the Regional Water Quality Control Boards, the California Air Resources Board, the U.S. Environmental Protection Agency (EPA), or any applicable law, rule or regulation; and should meet any specifications, criteria, or tests required by any federal, state, or local water agency. Unless otherwise indicated, the use of a non-toxic chemical stabilizer shall be of sufficient concentration and application frequency to maintain a stabilized surface.
- (3) CHEMICAL STABILIZATION means a method of dust control implemented by a person to mitigate fugitive dust and corresponding PM₁₀ emissions which involves the use of non-toxic chemical stabilizers in sufficient quantities to maintain a stabilized surface.

- (4) CONTINGENCY NOTIFICATION means that the U.S. EPA has determined and notified the District in writing that PM₁₀ contingency requirements must be implemented based on a finding that: (1) PM₁₀ and PM₁₀ precursor emissions reductions were less than required at any three-year milestone reporting interval, or (2) the region failed to attain the PM₁₀ standards within the time frames allotted under the Federal Clean Air Act, or (3) if as part of an Attainment/Maintenance Plan, the region is no longer in attainment of the PM₁₀ standards.
- (5) DUST SUPPRESSANTS are water, hygroscopic materials, or non-toxic chemical stabilizers used as a treatment material to reduce fugitive dust emissions.
- (6) ESSENTIAL PUBLIC SERVICES are sewage treatment facilities, prisons, police facilities, fire fighting facilities, schools, hospitals, landfills, and water delivery operations.
- (7) FEED LANE ACCESS AREAS are roads providing access from the feed preparation areas to and including feed lane areas at a livestock operation. These access roads are typically used to distribute feed from feed trucks to the animals.
- (8) FUGITIVE DUST means any solid particulate matter that becomes airborne, other than that emitted from an exhaust stack, directly or indirectly as a result of the activities of man.
- (9) LIVESTOCK OPERATIONS means any operation directly related to the raising of more than 50 animals for the primary purpose of making a profit or for a livelihood.
- (10) OWNER/OPERATOR is any person who owns, leases, or operates a land use or activity subject to the requirements of this rule.
- (11) PAVED ROAD means an improved street, highway, alley, public way, or easement that is covered by typical roadway materials excluding access roadways that connect a facility with a public paved roadway and are not open to through traffic. Public paved roads are those open to public access and that are owned by any federal, state, county, municipal or any other governmental or quasi-governmental agencies. Private paved roads are any paved roads not defined as public.
- (12) PM₁₀ is particulate matter with an aerodynamic diameter smaller than or equal to 10 microns as measured by the applicable State and Federal reference test methods.
- (13) PM₁₀-EFFICIENT STREET SWEEPERS are street cleaning equipment designed to prevent the venting of particulate matter 10 microns or less that has been outfitted with a filter, bag house, cyclone or other system.

- (14) SOUTH COAST AIR BASIN means the non-desert portions of Los Angeles, Riverside, and San Bernardino counties and all of Orange County as defined in California Code of Regulations, Title 17, Section 60104. The area is bounded on the west by the Pacific Ocean, on the north and east by the San Gabriel, San Bernardino, and San Jacinto Mountains, and on the south by the San Diego county line.
- (15) STABILIZED SURFACE means:
- (a) any disturbed surface area or open storage pile which has been treated to prevent wind-driven fugitive dust;
 - (b) any unpaved road surface in which any fugitive dust plume emanating from vehicular traffic does not exceed 20 percent opacity.
- (16) STREET CLEANING means the removal of post-event visible roadway accumulations using street sweeping equipment, front end loaders, haul vehicles, manual shoveling, street flushing, or any other methods determined effective by the responsible agency.
- (17) TYPICAL ROADWAY MATERIALS are concrete, asphaltic concrete, recycled asphalt or asphalt.
- (18) UNPAVED ACCESS CONNECTIONS are any unpaved road connection with a paved public road.
- (19) UNPAVED ALLEY means any roadway not exceeding 25 feet in width which is primarily used for access to the rear or side entrances of abutting property that is not covered by one of the following: concrete, asphaltic concrete, recycled asphalt, or asphalt.
- (20) UNPAVED ROADS are any unsealed or unpaved roads, equipment paths, or travel ways that are not covered by one of the following: concrete, asphaltic concrete, recycled asphalt, or asphalt. Public unpaved roads are any unpaved roadway owned by Federal, State, county, municipal or other governmental or quasi-governmental agencies. Private unpaved roads are all other unpaved roadways not defined as public. This definition excludes horse trails, hiking paths, bicycle paths, or other similar pathways used exclusively for purposes other than travel by motorized vehicles.
- (21) VISIBLE ROADWAY ACCUMULATIONS means the deposit of particulate matter onto paved roads as a result of wind or water erosion, haul vehicle spillage, or any other event excluding vehicular track-out, which results in the accumulation of visible roadway dust covering a contiguous area in excess of 200 square feet.
- (22) WIND-DRIVEN FUGITIVE DUST means visible emissions from any disturbed surface area which is generated by wind action alone.

(d) Requirements

Paved Roads

- (1) Any owner or operator of a paved public road on which there is visible roadway accumulations shall begin removal of such material through street cleaning within 72 hours following any notification of the accumulation and shall completely remove such material as soon as feasible. If removal cannot be completed within 10 days of notification, the owner/operator shall notify the Executive Officer and provide information on the location of the accumulation(s) and estimated removal completion date.
- (2) Any agency intending to purchase, lease, or otherwise contract for street sweeper equipment shall be required to procure PM₁₀-efficient street sweeping equipment after January 1, 1999.

Unpaved Roads

- (3) Any owner or operator of an unpaved public road shall annually treat unpaved roads that have greater than the average ADT of all unpaved roads in its jurisdiction (as determined by the owner/operator) beginning January 1, 1998 and each of the 8 calendar years thereafter by either:
 - (A) Paving at least 1 mile of such roads using typical roadway materials; or
 - (B) Applying chemical stabilization to 2 miles of such roads in sufficient quantities to maintain a stabilized surface; or
 - (C) Taking one or more of the following actions on 3 miles of such roads:
 - (i) Installing signage at 1/4 mile intervals that prohibits vehicular speeds in excess of 15 miles per hour (mph) as authorized by California Vehicle Code section 22365 and/or
 - (ii) Installing speed control devices (e.g., speed bumps) every 500 feet and/or
 - (iii) Maintaining the roadway in such a manner that inhibits vehicular speeds in excess of 15 mph to 3 miles of unpaved roads in its jurisdiction.

(Note: Treatment in excess of the annual requirement can be credited toward future year requirements.)

Livestock Operations

- (4) Any owner or operator of a livestock operation shall cease all hay grinding activities between 2 and 5 p.m. if visible emissions extend more than 50 feet from a hay grinding source.
- (5) Any owner or operator of a livestock operation shall treat all unpaved access connections and unpaved feed lane access areas with either pavement, gravel (maintained to a depth of four inches), or asphaltic road-base no later than January 1, 1998.

(e) Contingency Requirements

When a contingency notification has occurred, the requirements of this subdivision shall become effective in the county subject to the notification 60 days after the first publication date in newspapers of general circulation in that county. Such publication shall specify that a contingency notification has occurred, and that paragraph (e)(1) is to be implemented within 60 days of a contingency notification.

Paved Roads

- (1) Any owner or operator of public or private paved roads shall construct, or require to be constructed, all new or widened paved roads in accordance with the American Association of State Highway and Transportation Officials (AASHTO) guidelines or the applicable equivalent locally adopted guidelines for curbing, width of shoulders, and medians as specified below:
 - (A) New construction or widening of paved roads with projected average daily trips of 500 vehicles or more shall be constructed with curbs or as an alternative paved outside shoulders using typical roadway materials and having the following minimum widths:

Average Daily Trips	Minimum Shoulder Width
500 - 3,000	4 feet
3,000 or greater	8 feet
 - (B) New construction or widening of paved roads with medians and projected average daily trips of 500 vehicles or more shall pave the median area with typical roadway materials unless:
 - (i) the speed limits are set at or below 45 miles per hour; or
 - (ii) the medians are landscaped and maintained with grass or other vegetative ground cover and are surrounded by curbing; or
 - (iii) the medians are treated with chemical stabilizers in sufficient quantity and frequency to establish a stabilized surface and are surrounded by curbing.

(f) Recordkeeping

- (1) Any person subject to paragraph (d)(3) shall maintain records that document compliance with the requirements specified in paragraph (d)(3). Such records must be updated annually and must be made available to the Executive Officer upon request.

(g) Effective Date

All provisions of this rule shall become effective upon adoption of this Rule.

(h) Exemptions

- (1) The provisions of this rule shall not apply to sources with an approved Rule 1158 (Storage, Handling, and Transport of Petroleum Coke) plan provided that all sources of fugitive dust are included in the plan and the control actions are sufficient to comply with the performance standards contained in Rule 403.
- (2) The provisions of this rule shall not apply to essential public services that are in compliance with District Rule 403 (Fugitive Dust).
- (3) The provisions of paragraph (d)(1) shall not apply to:
 - (A) visible roadway accumulations that occur on roads with fewer than 500 average daily trips.
 - (B) paved roads that have been closed until such time that the road is again opened to vehicular activity.
 - (C) events of such magnitude that a State of Emergency has been declared by the Governor, provided that removal of visible roadway accumulations associated with such events are initiated and completed as soon as feasible.
- (4) An owner or operator of a paved road shall be exempt from the provisions of paragraph (d)(2) provided that PM₁₀-efficient street sweepers have been purchased and are being used on all swept paved roads, other than the portion of exempt paved roads [defined as paved public roads that: 1) have curbs, or paved road shoulders in excess of four feet and 2) are not within 1,000 feet of an unpaved road], and the owner or operator of a paved road submits annually the following to the Executive Officer:
 - (A) a written inventory of the curb mileage swept and to be swept using PM₁₀-efficient street sweepers; and

- (B) a written inventory of the exempt curb mileage.
- (5) The provisions of paragraph (d)(3) shall not apply to:
- (A) any unpaved road 3,000 feet above mean sea level with fewer than 500 ADT.
 - (B) any unpaved road used for emergency fire or flood protection or emergency maintenance of essential service utilities to provide electricity, natural gas, telephone, water, and sewer.
 - (C) any unpaved public road where public access is prohibited.
 - (D) any unpaved alley.
 - (E) any jurisdiction if it:
 - (i) notifies the Executive Officer that it has less than 5 miles of unpaved road mileage and implements once at least one of the control strategies identified in either subparagraph (d)(3)(A) or (d)(3)(B) or (d)(3)(C) on the unpaved road mileage with greater than the average ADT (as determined by the owner/operator) by January 1, 2000.
 - (ii) notifies the Executive Officer that it has more than 5 but less than 10 miles of unpaved road mileage and implements at least one of the control strategies identified in either subparagraph (d)(3)(A) or (d)(3)(B) or (d)(3)(C) on unpaved roads with greater than the average ADT (as determined by the owner/operator) in each three year period beginning January 1, 1998 (with final treatments completed by December 31, 2005).
 - (iii) notifies the Executive Officer that all of its remaining unpaved roads have 20 ADT or less (as determined by the owner/operator).
- (6) The provisions of paragraphs (d)(3), (d)(4), and (d)(5) shall not apply to livestock operations whose contiguous bounded areas include less than ten acres.
- (7) The provisions of subparagraph (e)(1)(A) shall not apply to unpaved road shoulders provided that the area extending eight feet from the outside edge of the pavement is landscaped and maintained with grass or other vegetative ground cover.

(i) **Alternative Control Options**

In lieu of complying with the provisions of paragraphs (d)(3) and (d)(5) and subdivision (e), a person may submit for approval by the Executive Officer and the U.S. Environmental Protection Agency a plan for achieving equivalent emissions reductions through alternative control measures.

[SIP: Submitted as adopted 2/14/97 on 8/1/97.]

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