

YOLO-SOLANO AIR QUALITY MANAGEMENT DISTRICT

RULE 3.3 - PORTABLE EQUIPMENT

(Revised August 13, 1997)

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100 GENERAL

101 **PURPOSE:** The purpose of this Rule is to provide an administrative mechanism, and establish standards for the registration of certain portable emissions units for operation at Participating Districts throughout the state of California. The District may update, through rulemaking, the emissions standards for new emissions units as more effective control technology becomes available.

102 **APPLICABILITY:** Emissions units used in conjunction with the following portable equipment source categories shall be eligible for registration under the provisions of this Rule:

102.1 Confined abrasive blasting.

102.2 Portland concrete batch plants.

102.3 Spark ignition or diesel fired piston type internal combustion engines, except for marine dredges, used in conjunction with the following types of operations:

- a. Well drilling, service, or workover rigs;
- b. Power generation (excluding cogeneration);
- c. Pumps;
- d. Compressors;
- e. Pile Drivers;

- f. Welding;
- g. Cranes; and
- h. Woodchippers

102.4 Sand and gravel screening, rock crushing operations, and unheated pavement crushing and recycling operations.

102.5 Unconfined abrasive blasting.

110 **EXEMPTION:** Nothing in this Rule shall be construed as requiring registration for an emissions unit which otherwise is exempt from the District's permit requirements (Rule 3.2 - EXEMPTIONS).

200 DEFINITIONS

201 **ADMINISTERING DISTRICT:** A District that adopts the provisions contained in Sections 200, 300, 401, 402, 403, 404, and 501 of this Rule for one or more of the equipment categories listed in Section 102 of this Rule and in which the owner or operator of a portable emissions unit files an application for registration. A District can be an Administering District only for the equipment categories for which it has adopted the requirements contained in this Rule.

202 **DISTRICT:** An Air Pollution Control District or Air Quality Management District duly organized under the applicable provisions of the California Health and Safety Code.

203 **EMERGENCY OPERATION:** Any operation which is necessitated as a result of an emergency declared by an authorized government official and which poses an imminent threat to public health and safety.

204 **EMISSIONS UNIT:** An identifiable process, operation, or piece of process equipment such as an article, machine, or other contrivance, which emits or may emit, or results in the emissions of any air contaminant directly or as fugitive emissions. For the purpose of this Rule, each internal combustion engine constitutes a separate emissions unit.

205 **EQUIVALENT REPLACEMENT:** Either of the following:

205.1 The replacement of or modification of an emissions unit where the maximum rating of the replacement unit does not exceed that of the unit being replaced, and the replacement unit is equipped with equal or better air pollution control technology; or

205.2 The replacement of or modification of an emissions unit where the maximum controlled emission rate from the replacement unit is reduced by at least twice the increase from the maximum rating of the existing unit, on a percentage basis. Limitations on capacity or hours of operation shall not be taken into account in qualifying as an equivalent replacement.

206 **EXISTING EMISSIONS UNIT:** An emissions unit that has resided in the State of California at any time during Calendar year 1993, and is registered in accordance with the provisions of this Rule no later than December 22, 1994 in the District in which the equipment is located or is first to be operated. The owner or operator of such a unit shall provide sufficient documentation to prove the residency requirement to the satisfaction of the Air Pollution Control Officer. Examples of adequate documentation are existing permits issued by an air pollution control district, district air pollution

inventory records, tax records, and usage or maintenance records. An equivalent replacement unit, replacing an existing emissions unit shall be treated as an existing emissions unit.

207 LOCATION: One property or two or more contiguous or adjacent properties. Contiguous or adjacent properties are properties with two or more parcels of land in actual physical contact, or separated solely by a public roadway or other public right of way. For well drilling, service, or workover rigs, each well site shall be considered as a separate location.

208 NEW EMISSIONS UNIT: Any emissions unit that does not meet the definition of an existing emissions unit shall be deemed a new emissions unit.

209 PARTICIPATING DISTRICT: Any District that, through rulemaking, agrees to honor and enforce registrations issued by an Administering District. Districts may choose to honor registrations for one or more of the equipment categories listed in Section 102 of this Rule.

210 PORTABLE EMISSIONS UNIT: Any emissions unit that, by itself or in or on a piece of equipment, is portable, meaning designed to be and capable of being carried or moved from one location to another. Indicators of portability include, but are not limited to, wheels, skids, carrying handles, dolly, trailer, platform or mounting. An emissions unit is not portable, and therefore subject to the requirements of Rule 3.1, GENERAL PERMIT REQUIREMENTS, if:

210.1 The emissions unit remains or will remain at a location for more than 6 consecutive months (Any emissions unit, such as a back-up or stand-by unit, that replaces an emissions unit at a location and is intended to perform the same function as the unit being replaced will be included in calculating the consecutive time period. In that case, the cumulative time of both emissions units, including the time between removal of the original unit and the installation of the replacement unit, would be counted towards the consecutive residence time period); or

210.2 The emissions unit remains or will remain at a location for less than 6 consecutive months where such a period represents the full length of normal annual source operations at the stationary source that resides at a fixed location for more than 6 consecutive months, such as a seasonal source; or

210.3 The emissions unit is removed from one location for a period and then returned to the same location in an attempt to circumvent the maximum portable equipment residence time requirement set forth in Section 210.1 of this Rule.

The period during which the emissions unit is maintained at a storage facility shall be excluded from determining the above residency requirement.

211 PROJECT: One or more registered portable emissions units operated at one location under the same or common ownership or control, and used to perform a single activity.

212 VOLATILE ORGANIC COMPOUND (VOC): Any compound containing at least one atom of carbon, except those compounds exempted under Section 214 of Rule 1.1, General Provisions and Definitions.

300 STANDARDS

301 CONFINED ABRASIVE BLASTING OPERATIONS:

301.1 No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark as or darker than Ringelmann 1 or equivalent 20% opacity.

301.2 The particulate matter emissions shall be controlled using a fabric or cartridge filter dust collector.

301.3 As a part of application for registration, the applicant shall provide manufacturer's specification or engineering data to demonstrate a minimum particulate matter arrestance of 99%.

301.4 Except for vent filters, each fabric dust collector shall be equipped with an operational differential pressure gauge to measure the pressure drop across the filters.

302 CONCRETE BATCH PLANTS:

302.1 All dry material transfer points shall be ducted through a fabric or cartridge type dust collector, unless there are no visible emissions from the transfer point.

302.2 All cement storage silos shall be equipped with fabric or cartridge type vent filters.

302.3 The silo vent filters shall be maintained in proper operating condition.

302.4 No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark as or darker than Ringelmann 1 or equivalent 20% opacity.

302.5 Open areas shall be maintained adequately wet to prevent fugitive emissions in excess of 20 percent opacity or Ringelmann 1.

302.6 Silo service hatches shall be dust-tight so as to prevent visible emissions.

302.7 As part of an application for registration, the applicant shall provide manufacturer's specification or engineering data to demonstrate a minimum particulate matter arrestance of 99%.

302.8 Except for vent filters, each fabric dust collector shall be equipped with an operational pressure differential gauge to measure the pressure drop across the filters.

303 DIESEL FIRED PISTON TYPE INTERNAL COMBUSTION ENGINES:

303.1 The engine timing shall be retarded by a minimum of four (4) degrees for the manufacturers standard timing or the NO_x emissions from naturally aspirated engines shall not exceed 10 grams per horsepower-hour or 700 ppmv at 15% O₂.

303.2 The engine timing shall be retarded by a minimum of four (4) degrees for the manufacturers standard timing or the NO_x emissions from turbocharged engines shall not exceed 7.2 grams per horsepower-hour or 500 ppmv at 15% O₂.

303.3 The sulfur content of the diesel fuel shall not exceed 0.05% by weight.

303.4 Particulate matter emissions concentration shall not exceed 0.10 grain per standard dry cubic foot.

303.5 Except for visible emissions from pile drivers, no air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark as or darker than Ringelmann 1 or equivalent 20% opacity. Pile drivers shall comply with the applicable provisions of Section 41701.5 of the California Health and Safety Code.

303.6 All engines that do not qualify as existing emissions units with ratings greater than 50 Brake Horsepower, but less than or equal to 117 Brake Horsepower, and that fail to meet the NO_x emission standards specified in Sections 303.1 or 303.2 of this Rule, shall be equipped with turbochargers in addition to the ignition retarding specified in Sections 303.1 or 303.2 of this Rule.

303.7 All engines that do not qualify as existing emissions units with ratings greater than 117 Brake Horsepower, and that fail to meet the NO_x emission standards specified in Sections 303.1 or 303.2 of this Rule, shall be equipped with turbochargers and aftercoolers in addition to the ignition retarding specified in Sections 303.1 or 303.2 of this Rule.

304 SPARK IGNITION INTERNAL COMBUSTION ENGINES:

304.1 NO_x emissions shall not exceed 1.5 grams per Brake Horsepower-hour or 100 ppmv at 15% O₂.

304.2 VOC emissions shall not exceed 1.5 grams per Brake Horsepower-hour or 650 ppmv at 15% O₂.

304.3 CO emissions shall not exceed 2.0 grams per Brake Horsepower-hour or 500 ppmv at 15% O₂.

304.4 Except for visible emissions from pile drivers, no air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark as or darker than Ringelmann 1 or equivalent 20% opacity. Pile drivers shall comply with the applicable provisions of Section 41701.5 of the California Health and Safety Code.

305 SAND AND GRAVEL SCREENING, ROCK CRUSHING, AND PAVEMENT CRUSHING AND RECYCLING OPERATIONS:

305.1 No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark as or darker than Ringelmann 1 or equivalent 20% opacity.

305.2 There shall be no visible emissions beyond the property line on which the equipment is being operated.

305.3 All transfer points shall be ducted through a fabric or cartridge type dust collector, or shall be equipped with wet suppression system maintaining a minimum moisture content of 4 percent by weight.

305.4 All conveyors shall be covered, unless the material being transferred does not result in any visible particulate emissions.

305.5 Particulate emissions from each crusher shall be ducted through a fabric dust collector, or a wet suppression system maintaining a minimum moisture content of 4 percent by weight shall be used.

305.6 All stockpiled material shall be maintained at a minimum moisture content of 4 percent by weight, unless the material does not result in any visible particulate emissions.

305.7 Any source which processes in excess of 150 tons per hour shall comply with all the applicable provisions of the Code of Federal Regulations (CFR) under 40 CFR Part 60, Subpart OOO.

305.8 As a part of application for registration, the applicant shall provide manufacturer's specification or engineering data to demonstrate a minimum particulate matter arrestance of 99%.

305.9 Except for vent filters, each fabric dust collector shall be equipped with an operational differential pressure gauge to measure the pressure drop across the filters.

306 UNCONFINED ABRASIVE BLASTING OPERATIONS:

306.1 No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark as or darker than Ringelmann 2 or equivalent 40% opacity.

306.2 Only California Air Resources Board certified abrasive material shall be used.

306.3 The abrasive material shall not be reused.

306.4 No air contaminant shall be released into the atmosphere which causes a public nuisance.

306.5 All applicable requirements of Title 17 of California Code of Regulations shall also apply.

307 PROHIBITIONS:

307.1 Except for emissions from existing emissions units, the total NO_x or VOC emissions from a project shall not exceed 100 pounds during any one day, for each pollutant.

307.2 The total PM₁₀ emissions from a project shall not exceed 150 pounds during any one day.

307.3 No air contaminant shall be released into the atmosphere which causes a public nuisance.

307.4 Except for emergency operations, the emissions unit is not operated within 1,000 feet of any K-12 school, unless the applicable requirements of California Health and Safety Code Section 42301.6 have been satisfied.

307.5 The actual emissions from the unit, when operated as a registered portable emissions unit, as verified by recordkeeping as prescribed by this Rule, shall not exceed 10 tons per year of any affected pollutant when operated in any Participating District.

400 ADMINISTRATIVE REQUIREMENTS

401 REGISTRATION PROCESS: If the owner or operator of an emissions unit operated in conjunction with one of the source categories listed in Section 102 of this Rule elects to apply for registration of said emissions unit, the owner or operator shall apply for registration at the Participating District in which the portable equipment is located at the time the application for registration is filed. If the equipment is located outside the State of California, or in a non-participating District, the owner or operator must register at the District where the equipment will first be operated after registration.

401.1 The applicant shall provide the Administering District with the necessary engineering data, emissions test data, or manufacturer's guarantee to demonstrate compliance with the requirements as specified in Section 300 of this rule.

401.2 The Administering District shall issue registration, deny registration, or deem the application incomplete according to the following schedule:

- a. Within 90 days of the receipt of an application for applications received prior to December 22, 1994.
- b. Within 30 days of receipt of an application received after December 22, 1994.

401.3 The Administering District shall conduct an on-site inspection of the emissions unit prior to issuing registration for the unit.

401.4 No later than 10 days after issuance of a registration, the Administering District shall forward to all Participating Districts a copy of the registration and, upon request by a Participating District, a copy of the application for registration.

401.5 The owner or operator of a registered emission unit may operate the unit within the boundaries of any Participating District pending compliance with all applicable requirements.

401.6 The Administering District shall renew the registration on an annual basis pending the payment of all applicable fees and compliance with all applicable requirements.

401.7 The Participating Districts shall provide written reports to the Administering District describing the nature and outcome of any violation of the applicable requirements by the owner or operator of the registered equipment and the Administering District shall distribute such information to all other Participating Districts.

401.8 The Participating Districts shall provide written reports to the Administering District describing any Hearing Board action concerning the portable registered equipment. The Administering District shall distribute such information to all other Participating Districts.

401.9 Equivalent replacement units must go through the entire registration process in order to obtain registration, including surrendering of the registration of the equipment being replaced.

401.10 For the purpose of this Rule, permitting in Division 26 of the Health and Safety Code of the State of California, Part 3, Chapter 8 and Part 4, Chapter 4, Articles 2 and 4, respectively, entitled Hearing Board, Variances, and orders of abatement, shall be considered to have the same meaning as registration in this Rule. The Air Pollution Control Officer and the District Hearing Board shall have the same authority concerning registration as it does with permits, and the owner or operator of registered emissions unit shall be entitled to the same privileges and rights granted to a permittee.

401.11 The Administering District shall notify all Participating Districts of any changes in the status of registration for an emissions unit.

402 NOTIFICATION: If an emissions unit remains in the District for more than 24 hours, the operator shall notify the District within 2 calendar days. The notification shall include the following information:

402.1 The general nature of the operations.

402.2 The estimated duration of operations within the District.

402.3 The name and telephone number of a contact person with information concerning locations where the equipment will be operated within the District.

403 REPORTING: Within 30 days after the end of every calendar quarter, the operator of a registered portable emissions unit, except for rental equipment, shall notify the District in which the unit was operated of the level of activities within the District during the preceding calendar quarter. The notification shall include the following information:

403.1 The location(s) at which the equipment was operated, including the dates operated at each location.

403.2 The type and quantity of materials processed by each emissions unit, or the daily hours of operation for each emissions unit in conjunction with hourly throughput rate.

403.3 The type and quantity of fuels consumed by each emissions unit, or the daily hours of operation for each emissions unit in conjunction with hourly horsepower, or BTU rating.

404 RENTAL EQUIPMENT:

404.1 The operator of rental registered portable equipment shall be responsible for compliance with the notification and recordkeeping requirements of this Rule. The

operator must furnish the necessary recordkeeping as required pursuant to Sections 403.1, 403.2, and 403.3 of this Rule, to the owner of the equipment.

404.2 The owner of registered portable equipment shall provide the operator with a written copy of the applicable requirements of this Rule, including the notification and recordkeeping requirements, as a part of the equipment rental agreement. The owner must maintain written acknowledgement by the operator of receiving the above information for a period of two years.

404.3 The owner of rental registered portable equipment must compile the records provided by the equipment operators and within 30 days after the end of every calendar quarter shall submit the above information to the Participating Districts.

405 FEES:

405.1 Initial Registration Fee: Every applicant for a portable equipment registration shall pay to the Administering District a non-refundable filing fee of \$200 per emissions unit.

405.2 Annual Registration Renewal Fee: On the anniversary of the issuance of a registration, the owner or operator shall pay a renewal fee of \$150 per emissions unit to the Administering District, unless the owner or operator declares non-operational status for the emissions unit per Section 405.5 of this Rule. The Administering District may prorate the renewal payments to a single anniversary date for the holder of registrations with more than one anniversary date. The owner or operator will be notified by mail of the fee due and payable and the date the fee is due. If the renewal fee is not paid by the specified due date, the fee shall be increased by 50%. Nonpayment of the increased fees and penalty within 30 days of the due date shall result in cancellation of the registration.

405.3 Inspection Fees: No inspection fees shall be required for emissions units operated in the Administering District. If inspected by the Participating District, the owner or operator of registered portable equipment shall pay to the Participating District in which the equipment is operated an inspection fee of \$75 per year of each emissions unit. The owner or operator will be notified by mail of the fee due and payable and the date the fee is due. If the inspection fee is not paid within 30 days of the specified due date, the fee shall be increased by 50%. Nonpayment of the increased fee and penalty within 30 days of the due date shall result in the cancellation of the registration.

405.4 Non-Operational Equipment Fees: Upon receipt of the invoice for annual registration renewal, the registered owner or operator may choose to declare the equipment as non-operational for a non-refundable fee of \$25, in lieu of paying the annual registration renewal fee. To declare an emissions unit as non-operational, the registered owner or operator shall state in writing the intention to not operate the said equipment until registration is renewed. Prior to operating the emissions unit, the registered owner or operator shall pay the annual registration renewal fee in full to the District.

406 IMPLEMENTATION SCHEDULE: The owner or operator of an emissions unit subject to the provisions of this Rule shall apply for registration according to the following schedule:

406.1 Prior to December 22, 1994 for existing active emissions units.

406.2 All other equipment must register prior to commencing operations.

407 REGISTRATION RETENTION: A person that has been issued a registration under this Rule shall retain a copy of such registration or registration number with the equipment registered. A copy of the registration or registration number shall be made available for inspection by the District upon request.

500 MONITORING AND RECORDS

501 TESTING REQUIREMENTS: Testing to verify compliance with the applicable requirements of this Rule shall be conducted at the expense of the registered owner or operator upon request of the District and in accordance with the following EPA Reference Test Methods (40 CFR 60, Appendix A), as applicable:

501.1 Particulate Matter:	Method 5;
501.2 Volatile Organic Compounds (VOC)	Method 25A;
501.3 Oxides of Nitrogen (NO_x):	Method 7E;
501.4 Carbon Monoxide (CO):	Method 10;
501.5 Oxygen (O₂):	Method 3A;
501.6 Gas Velocity and Flow Rate:	Method 2;
501.7 Gas Volume:	Method 2A; and/or
501.8 Visible Emissions:	Method 9.

The District must accept prior test results of tests conducted within the last two years, provided that the operator proves to the satisfaction of the Air Pollution Control Officer that the prior testing was conducted in accordance with appropriate methods and the conditions under which the unit was tested represent the operating conditions of the equipment as proposed.