

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

RULE 701 -- EMERGENCY EPISODE PLAN

(Adopted 5-6-74) (Amended 9-15-75, 8-3-77, 12-6-78, 5-25-93, 9-5-96, 5-27-99)

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100 **GENERAL**

101 **PURPOSE:** To reduce air pollutants which may reach or have reached levels harmful to health, and to protect the population at risk. This rule establishes control and advisory procedures when specified pollutant levels have been reached, or are predicted to be reached by the Air Pollution Control Officer.

102 **APPLICABILITY: STATIONARY AND MOBILE SOURCE EMERGENCY EPISODE ABATEMENT PLANS:** This rule shall apply to all stationary sources, or combination of stationary and mobile sources, which emit (based on actual emissions for the previous calendar year) 50 tons or more per year of volatile organic compounds, or 50 tons or more per year of oxides of nitrogen, or 100 tons or more per year of carbon monoxide, or 100 tons or more per year of PM10.

200 **DEFINITIONS**

201 **AFFECTED POLLUTANTS:** Volatile organic compounds (VOC), nitrogen oxides (NOx), sulfur oxides (SOx), PM10, carbon monoxide (CO), lead, vinyl chloride, sulfuric acid mist, hydrogen sulfide, total reduced sulfur, and reduced sulfur compounds.

202 **EMISSIONS UNIT:** An identifiable operation or permitted piece of process equipment such as an article, machine, or other contrivance which controls, emits, may emit, or results in the emissions of any affected pollutant directly or as fugitive emissions.

203 **EPISODE ACTION COORDINATOR:** A person or persons employed by a stationary source, or a combination of stationary and mobile sources, assigned the responsibility for preparation and/or implementation of an episode abatement plan.

204 **EPISODE AIR POLLUTANT:** Carbon monoxide, ozone, and PM10.

205 **MOBILE SOURCE:** A motor vehicle, machine, or other contrivance which controls, emits, may emit, or results in the emissions of any affected pollutant, and is capable of moving or being moved from one place to another, under its own power.

206 **PM10:** Particulate matter with an aerodynamic diameter smaller than or equal to a nominal 10 microns as measured by an applicable reference test method or methods found in Article 2, Subchapter 6, Title 17, California Code of Regulations (commencing with Section 94100).

207 **STATIONARY SOURCE:** Any building, structure, facility, or emissions unit which emits or may emit any affected pollutant directly or as a fugitive emission.

207.1(a) Building, structure, facility, or emissions unit includes all pollutant emitting activities which:

- 1) belong to the same industrial grouping, and
- 2) are located on one property or two or more contiguous properties, and
- 3) are under the same or common ownership, operation, or control or which are owned or operated by entities which are under common control.

207.1(b) Pollutant emitting activities shall be considered as part of the same industrial grouping if:

- 1) they belong to the same two-digit standard industrial classification code, or
- 2) they are part of a common production process. (Common production process includes industrial processes, manufacturing processes, and any connected processes involving a common material.)

- 208 **VOLATILE ORGANIC COMPOUND (VOC):** For the purposes of this rule, "volatile organic compound" has the same meaning as in Rule 101—GENERAL PROVISIONS AND DEFINITIONS.

300 **STANDARDS**

301 **EMERGENCY EPISODE ABATEMENT PLAN REQUIREMENTS AND APPROVAL:**

- 301.1 The operator of a stationary source, or a combination of stationary and mobile sources, subject to this rule shall file an emergency episode abatement plan for approval by the Air Pollution Control Officer within 45 days of May 25, 1993. The operator of a stationary source, or a combination of stationary and mobile sources that becomes subject to this rule after May 25, 1993 shall file an emergency episode abatement plan for approval by the Air Pollution Control Officer within 45 days of becoming subject to this rule. Whenever a new permit to operate is approved by the District, and whenever a modification to an existing permit to operate is approved, pursuant to Rule 202 - NEW SOURCE REVIEW, the Air Pollution Control Officer may require the operator to file an addendum to the approved plan.
- 301.2 The Air Pollution Control Officer will review emergency episode abatement plans and approve only such plans that the Air Pollution Control Officer determines will effectively reduce affected air pollutant emission levels during a declared stage 1, 2 or 3 episode. The plans shall include, but not be limited to, facility and abatement action information indicated in Sections 301.3 and 301.4.
- 301.3 Facility Information :
- a. Name and location of the facility.
 - b. Number of Employees.
 - c. Employee vehicles:
 - 1) Number.
 - 2) Total average daily commute mileage.
 - d. Fleet vehicles:
 - 1) Number of vehicles and type of fuel used in each vehicle.
 - 2) Total average daily mileage of each type.
 - e. Stationary source:
 - 1) Type of equipment that emits air pollutants and number of units of each type.
 - 2) Total potential emissions of each affected pollutant in pounds per operating day from each type of equipment including any significant variations occurring seasonally or differences in emissions on weekends and holidays. If available, this data may be supplied from District records.
 - f. Procedures for briefing employees regarding the abatement plan requirements.
 - g. Procedures for notifying employees and individuals responsible for emissions curtailment action to be taken.
 - h. Where applicable, a procedure for limiting strenuous activities by students.
 - i. The job titles and telephone numbers of the episode action coordinator and alternate.
 - j. The job title and telephone number of the official responsible for implementation of the plan.
 - k. Other information as required by the Air Pollution Control Officer.
- 301.4 Abatement Actions.
- a. Direct emissions
 - 1) Identification of equipment for which emissions are to be curtailed at each episode stage and expected reduction of emissions of each pollutant in pounds per operating day.
 - 2) Time required to accomplish the emissions curtailment at each episode stage.

- 3) Reduction in fuel oil, natural gas and electrical consumption expected at each episode stage.
 - b. Indirect emissions
 - 1) Measures to be implemented at each episode stage to reduce public travel to the facility.
 - 2) An estimate of the reduction in vehicle trips to the facility at each episode stage.
 - 3) Procedure for encouraging voluntary carpools at each episode stage.
 - 4) Measures to be implemented at each episode stage to reduce employee use of company owned or fleet vehicles.
- 302 **ABATEMENT REPORTS:** The operator or episode action coordinator shall prepare and submit a report of the abatement plan's effectiveness when implemented in response to a stage 1, stage 2 or stage 3 episode, within 60 days of a request by the Air Pollution Control Officer. Such report shall include the following information, as applicable:
- a. An estimate of the reduction in vehicle trips, and the basis for the estimate.
 - b. An estimate of the stationary source affected pollutant emission reductions, expressed in pounds per day, and the basis for the estimate.
 - c. Identification of problems encountered in implementing the abatement plan.
 - d. Comments on the effectiveness of the abatement plan actions implemented.
 - e. Recommendations for improved effectiveness.
- 303 **DISAPPROVAL OF EMERGENCY EPISODE ABATEMENT PLANS:** In the event of disapproval of an emergency episode abatement plan, the Air Pollution Control Officer shall notify the operator in writing of the reasons for denial. The operator shall submit a revised plan within 30 days from the date of notification, incorporating the changes required by the Air Pollution Control Officer. A revised plan shall not be approved until the Air Pollution Control Officer determines that the issues which resulted in denial have been addressed. Service of notification shall be made in person or by mail, and such service may be proved by the written acknowledgment of the person(s) served or affidavit of the person making the service. Any person aggrieved by a decision of the Air Pollution Control Officer may appeal the decision to the Hearing Board pursuant to the provisions of RULE 601 - PROCEDURE BEFORE THE HEARING BOARD.
- 304 **EMERGENCY EPISODE ABATEMENT PLAN IMPLEMENTATION:** Upon declaration by the Air Pollution Control Officer that a stage 1, 2, or 3 episode is in effect, the operator or episode action coordinator shall implement the approved emergency episode abatement plan for the declared stage.
- 305 **EMERGENCY EPISODE DECLARATION:** Whenever the concentration of an episode air pollutant reaches, or is predicted to reach, a health advisory or a stage 1, 2 or 3, episode as specified in Table 1, at any location within the District, the Air Pollution Control Officer shall declare that such episode advisory or stage is in effect in the District.
- 306 **NOTIFICATION OF AN EMERGENCY EPISODE STAGE:** When any episode stage is declared, the Air Pollution Control Officer shall notify the following officials or officers:
- 306.1 The California Air Resources Board.
 - 306.2 The Sacramento County Executive and chief executive officers of the incorporated cities within the District, police chiefs, fire chiefs and any other public safety officers as deemed appropriate by the Air Pollution Control Officer;
 - 306.3 All air pollution control districts within the Sacramento Valley Air Basin;
 - 306.4 The Sacramento County Superintendent of Schools, and the superintendents of all school districts within the District;

- 306.5 The Sacramento County Health Officer who shall be advised to notify the Sacramento County Medical Society;
- 306.6 Major newspapers of daily circulation published in the District, and all television and radio stations broadcasting from within the District which shall be requested to publish or broadcast all appropriate warnings, notices, and advisories specified in Section 308 as public service announcements.
- 306.7 Staff of the District responsible for implementing and/or enforcing the provisions of this rule;
- 306.8 Episode action coordinators of stationary or a combination of stationary and mobile sources responsible for implementation of emergency episode abatement plans.
- 307 **CONTENT OF NOTIFICATION:** Notification of an episode stage shall include information as to which episode has been predicted or reached, the expected duration of the episode, the estimated geographic boundaries of the affected area, the specific episode air pollutant for which the episode has been declared, a statement of the public health significance of the episode, and the appropriate voluntary or mandatory control actions to be taken, as described in Section 308.
- 308 **EMERGENCY EPISODE ACTIONS:** When an episode stage is declared to be in effect, the Air Pollution Control Officer shall implement the following control actions:
- 308.1 Health Advisory Episode:
- a. Notify those persons and agencies specified in Section 306 that a health advisory has been declared.
 - b. For ozone episodes, advise the Sacramento County Superintendent of Schools that sustained strenuous activities by students lasting longer than one hour should be discontinued.
 - c. Request the news media to convey appropriate warnings to the public and to request the public to curtail unnecessary motor vehicle operation and waste burning.
- 308.2 Stage 1 Episode:
- a. Notify those persons and agencies specified in Section 306 that a stage 1 episode has been declared;
 - b. Initiate actions specified in approved episode abatement plans;
 - c. Request the news media to convey appropriate warnings to the public and request the public to curtail unnecessary motor vehicle operation and waste burning;
 - d. Initiate inspection of stationary sources or a combination of stationary and mobile sources subject to Section 102 of this rule to ensure source compliance with episode abatement plans;
 - e. Prohibit outdoor agricultural burning, except in emergency situations as provided for in Section 41862 of the California Health and Safety Code.
- 308.3 Stage 2 Episode: In addition to the requirements specified in Section 308.2:
- a. Request that within the scope of their authority, officials notified pursuant to Section 306 do the following:
 - 1) Prohibit all burning of refuse, including agricultural waste, within their jurisdiction;
 - 2) Close all non-essential facilities of public agencies, except emergency facilities and those facilities necessary in emergencies to protect the national security or national defense;
 - b. Advise stationary sources subject to Section 102 to prepare for possible shutdown in accordance with their approved episode abatement plans;
 - c. Request employers of facilities which have closed due to the episode control measures to request employees to refrain from using their vehicles until the episode is terminated;
 - d. Notify the California Air Resources Board at each third increment of the concentration difference between stage 2 and stage 3 episodes; and with the concurrence of the California Air Resources Board, request the

- Sacramento County Executive to request the Sacramento County Office of Emergency Services and the California Office of Emergency Services to coordinate emergency control measures pursuant to the California Emergency Services Act.
- e. Request suspension of all athletic events at parks or recreational facilities open to the public. Such programs which are for adult participants in scheduled athletic events with paid attendance are exempted.
 - f. Request the news media to convey appropriate health warnings to the public and request the public to curtail unnecessary motor vehicle operation.
 - h. Cooperate with the California Office of Emergency Services in the control of the episode.
- 308.4 Stage 3 Episode: In addition to the requirements specified in Section 308.2 and 308.3 above:
- a. Request that within the scope of their authority, the officials notified pursuant to Section 306 do the following:
 - 1) Close all private and public commercial agencies and industrial establishments which are not immediately necessary for the public health and safety, national security or national defense;
 - 2) Close principal streets, as deemed necessary by the Air Pollution Control Officer or local law enforcement agencies, in order to protect the health and welfare of the general public;
 - b. Require implementation of emergency carpooling or the use of mass transportation as indicated in approved emergency episode plans;
 - c. Request the news media to convey appropriate health warnings to the public and to request that the public use only mass transit for transportation.

400 ADMINISTRATIVE REQUIREMENTS

- 401 **AIR POLLUTION DISASTER:** When it is determined by medical authorities or local officials that a substantial number of persons are suffering or are likely to suffer incapacitating effects from air pollution, regardless of measured air pollutant concentrations, and analysis of meteorological and air quality data by the California Air Resources Board or the District indicates that the condition is likely to continue, or recur, the Air Pollution Control Officer may request the Chairperson of the California Air Resources Board to confer with the director of the California Office of Emergency Services and jointly they may recommend to the Governor that an air pollution disaster (State of Emergency) be declared.
- 402 **TERMINATION OF AN EPISODE STAGE:** The Air Pollution Control Officer shall declare an episode stage as terminated when the concentration of a episode air pollutant falls below the level shown in Table 1 of this rule, and when meteorological data indicate the episode air pollutant concentration is expected to decrease to a lower pollutant threshold level.
- 403 **NOTIFICATION OF TERMINATION OF AN EPISODE STAGE:** Upon declaration of termination of an episode stage, the Air Pollution Control Officer shall notify those persons and offices specified in Section 306 of this rule. Such notice shall also advise which episode stage is in effect, if any, as specified in Section 308 herein.
- 404 **INTERDISTRICT COORDINATION:** Should the Air Pollution Control Officer of a district adjacent to the Sacramento District declare a stage 1, 2 or 3 episode within that district and request assistance, the Air Pollution Control Officer of the Sacramento Metropolitan Air Quality Management District may take action to:
- 404.1 Make a determination as to the significance of sources within the District upon the adjacent district, or the impact of the significance of sources within the adjacent district upon the District. After such determination and the need for action is

confirmed, the Air Pollution Control Officer may implement such notification and control measures as described in this rule, as if such episode level has been measured within the District;

- 404.2 Notify the requesting adjacent air pollution control district of the actions being taken to reduce pollutants affecting the declared stage.

500 MONITORING AND RECORDS

- 501 **TEST METHODS:** The concentration of an air pollutant is measured by ambient air monitoring. The level of ozone is measured by ARB Method 14, the level of carbon monoxide is measured by ARB Method 11, and the level of PM10 is measured by ARB Method 59.

TABLE 1 - EPISODE CRITERIA

EPISODE AIR POLLUTANT CONCENTRATION LEVELS

	Averaging Time	Health Advisory Episode	Stage 1 Episode	Stage 2 Episode	Stage 3 Episode
Ozone	1 Hour	0.15 ppm	0.20 ppm	0.35 ppm	0.50 ppm
Carbon Monoxide	1 Hour	*	40 ppm	75 ppm	100 ppm**
	4 Hours	*	25 ppm	45 ppm	60 ppm
	8 Hours	*	15 ppm	30 ppm	40 ppm
PM10	24 Hours		350 $\mu\text{g}/\text{m}^3$	420 $\mu\text{g}/\text{m}^3$	500 $\mu\text{g}/\text{m}^3$

* Health Advisory for this pollutant is issued at the Stage 1 Level.

** For one hour, and predicted to persist for one additional hour.

ppm means parts of pollutant per million parts of air, by volume.

$\mu\text{g}/\text{m}^3$ means micrograms of pollutants per cubic meter of air at standard conditions.