

REGULATION 4.03 General Abatement Requirements

Air Pollution Control District of Jefferson County Jefferson County, Kentucky

Relates To: KRS Chapter 77 Air Pollution Control

Pursuant To: KRS Chapter 77 Air Pollution Control

Necessity And Function: KRS 77.180 provides that the Air Pollution Control Board may make and enforce all needful orders, rules, and regulations necessary or proper to accomplish the purposes of KRS Chapter 77. This regulation establishes the requirements for general abatement of process or air contaminants from affected facilities under certain conditions of air quality.

SECTION 1 Basic Provisions

- 1.1 The intent of this regulation is to provide for the curtailment or reduction of processes or operations which emit an air contaminant or an air contaminant precursor whose criteria has been reached and are located in the affected area for which an episode level has been declared.
- 1.2 Any person responsible for the operation of an air contaminant source shall take all actions required by this regulation irrespective of any economic hardship which may be incurred due to such actions.
- 1.3 When the District determines that specified criteria are being approached and may be reached at one or more monitoring sites solely because of emissions from a limited number of sources or processes, it may act to prevent the attainment of the episode level by notifying such source that the abatement strategies as described in this regulation or the standby plans are required insofar as they apply to such source, and shall be put into effect until a satisfactory reduction in the ambient pollution concentration has been achieved.
- 1.4 Air Pollution Alert. When the District declares an air pollution alert, any person responsible for the operation of a source of air contaminants shall take all air pollution alert actions required under Sections 2 and 3 for such sources of air contaminants and shall put into effect the pre-planned strategy for an air pollution alert.
- 1.5 Air Pollution Warning. When the District declares an air pollution warning, any person responsible for the operation of a source of air contaminants shall take all air pollution warning actions required for such sources of air contaminants and shall put into effect the pre-planned strategy for an air pollution warning.
- 1.6 Air Pollution Emergency. When the District declares an air pollution emergency, any person responsible for the operation of a source of air contaminants shall take all air pollution emergency actions required for such sources of air contaminants and shall put into effect the pre-planned strategy for an air pollution emergency.

SECTION 2 Standby Plans

- 2.1 Any person responsible for the operation of a source of air pollutants as set forth in Regulation 4.04, 4.05 or 4.06 shall prepare standby plans for reducing the emission of air pollutants during episode periods (air pollution alert, warning, and emergency). Standby plans shall be designed to reduce or eliminate emission of air pollutants in accordance with the objectives set forth in this regulation.

- 2.2 Any person responsible for the operation of a source of air pollutants not set forth in section 2.1 shall, when requested by the District in writing, prepare standby plans for reducing the emission of air pollutants during episode periods. Standby plans shall be designed to reduce or eliminate emissions of air pollutants in accordance with the objectives set forth in this regulation.
- 2.3 Standby plans as required under sections 2.1 and 2.2 shall be in writing and identify the source of air pollutants, the approximate amount of reduction of pollutants, and a brief description of the manner in which the reduction will be achieved during episode periods.
- 2.4 During episode periods, standby plans required by this section shall be made available on the premises to any person authorized to enforce the provisions of the standby plan.
- 2.5 Standby plans required by this section shall be submitted to the District upon request within 30 days of the receipt of such request. Such plans shall be subject to review and approval by the District. If, in the opinion of the District, a plan does not effectively carry out the objectives as set forth in sections 2.1 and 2.2, the District may disapprove it, state its reasons for disapproval and order the preparation of an amended plan within the time period specified in the order.

SECTION 3 Alert Stage General Requirements

- 3.1 When an alert is declared on reaching the criteria level for particulates or sulfur dioxide, the following actions shall be taken:
 - 3.1.1 There shall be no open burning by any person of tree waste, vegetation, refuse or debris.
 - 3.1.2 The use of incinerators for the disposal of any form of solid waste shall be limited to the hours of 12 noon to 4 p.m. local time.
 - 3.1.3 Persons operating fuel-burning equipment which requires boiler lancing or soot blowing shall perform such operations only between the hours of 12 noon and 4 p.m. local time.
- 3.2 When an alert is declared based on reaching the criteria level for oxidants, carbon monoxide or nitrogen dioxide the following actions shall be taken:
 - 3.2.1 Carbon monoxide, nitrogen dioxide, and oxidants alerts:
 - 3.2.1.1 Persons operating motor vehicles shall eliminate all unnecessary operations.
 - 3.2.1.2 Road repairs should be postponed to alleviate traffic congestion.
 - 3.2.1.3 When the source of air contaminant is manufacturing industries of the following classifications: primary metals industry, petroleum refining operations, chemical industries, surface coating operations, paper and allied products, and grain industry:
 - 3.2.1.3.1 Reduction of air contaminants from manufacturing operations by curtailing, postponing, or deferring production operations;
 - 3.2.1.3.2 Reduction by deferring trade waste disposal operations which emit solid particles, gas vapors, or malodorous substances;
 - 3.2.1.3.3 Reduction of heat load demands for processing.
 - 3.2.2 Oxidant alerts:
 - 3.2.2.1 In addition to actions required in section 3.2.1, persons operating petroleum loading and dry cleaning facilities shall reduce hydrocarbon emissions by 25%.

SECTION 4 Warning Stage General Requirements

- 4.1 When a warning is declared on reaching the criteria level for particulates or sulfur dioxide the following actions shall be taken:

- 4.1.1 There shall be no open burning by any person of tree waste, vegetation, refuse or debris in any form.
- 4.1.2 The use of incinerators for the disposal of any form of solid waste or liquid waste shall be prohibited.
- 4.1.3 Persons operating fuel-burning equipment which requires boiler lancing or soot blowing shall perform such operations only between the hours of 12 noon and 4 p.m. local time.
- 4.2 When a warning is declared based on reaching the criteria level for oxidants, carbon monoxide or nitrogen dioxide the following actions shall be taken:
 - 4.2.1 Persons operating motor vehicles must reduce operation by the use of car pools and increased use of public transportation and the elimination of unnecessary operation.
 - 4.2.2 Persons operating petroleum loading and dry cleaning facilities shall reduce hydrocarbon emissions by 50%.
 - 4.2.3 Road repairs should be postponed to alleviate traffic congestion.

SECTION 5 Emergency Stage General Requirements

- 5.1 When an emergency is declared based on reaching the criteria for any air contaminant the following shall apply:
 - 5.1.1 There shall be no open burning by any person of tree waste, vegetation, refuse, or debris in any form.
 - 5.1.2 The use of incinerators for the disposal of any form of solid or liquid waste shall be prohibited.
 - 5.1.3 All places of employment described below shall immediately cease operations:
 - 5.1.3.1 Mining and quarrying of non-metallic minerals,
 - 5.1.3.2 All construction work except that which must proceed to avoid emergent physical harm,
 - 5.1.3.3 All manufacturing establishments except those required to have in force an air pollution emergency plan,
 - 5.1.3.4 Wholesale trade establishments; i.e., places of business primarily engaged in selling merchandise to retailers, to industrial, commercial, institutional or professional users, or to other wholesalers, or acting as agents in buying merchandise for or selling merchandise to such persons or companies,
 - 5.1.3.5 All offices of local, county, and state government including authorities, joint meetings, and other public bodies excepting such agencies which are determined by the chief administrative officer of local, county, or state government, authorities, joint meetings, and other public bodies to be vital for public safety and welfare and the enforcement of the provisions of this order,
 - 5.1.3.6 All retail trade establishments except pharmacies and stores primarily engaged in the sale of food,
 - 5.1.3.7 Banks, credit agencies other than banks; securities and commodities brokers, dealers, and exchanges and services; offices of insurance carriers, agents and brokers; real estate offices,
 - 5.1.3.8 Wholesale and retail laundries, laundry services, photographic studios, beauty shops, barbershops, shoe repair shops,
 - 5.1.3.9 Advertising offices; consumer credit reporting, adjustment and collection agencies; duplication, addressing, blueprinting, photocopying, mailing list and stenographic

- 5.1.3.10 services; equipment rental services, commercial testing laboratories, Automobile repair, automobile services, garages,
- 5.1.3.11 Establishments rendering amusement and recreation services including motion picture theaters, and
- 5.1.3.12 Elementary and secondary schools, colleges, universities, professional schools, and public and private libraries.
- 5.1.4 All commercial and manufacturing establishments not included in this order will institute such actions as will result in maximum reduction of air contaminants from their operations by ceasing, curtailing, or postponing operations which emit air contaminants, to the extent possible without causing injury to persons or damage to equipment.
- 5.1.5 The use of motor vehicles is prohibited except in emergencies with the approval of local or state police.
- 5.2 Source curtailment. When an emergency is declared based on reaching criteria level for any pollutant, any person responsible for the operation of a source of air contaminant listed below shall take all required control actions for this emergency level.
 - 5.2.1 When the source of air contaminant is fuel-fired electric power generating facilities, maximum reduction of emissions shall be accomplished by utilization fuels having lowest ash and sulfur content; maximum utilization of midday (12 noon to 4 p.m.) atmospheric turbulence for boiler lancing and soot blowing; and diverting electric power generation to facilities outside of the emergency area.
 - 5.2.2 When the source of air contaminant is fuel-fired process steam generating facilities, maximum reduction of emissions shall be accomplished by reducing heat and steam demands to absolute necessities consistent with preventing equipment damage or person injury; maximum utilization of midday atmospheric turbulence for boiler lancing and soot blowing and taking the action called for in the emergency plan.
 - 5.2.3 When the source of air contaminant is manufacturing industries including but not limited to the following classifications: primary metal industries, petroleum refining, chemical industries, mineral processing industries, grain industry, paper and allied products, surface coating, degreasing nitric acid production, and fertilizer manufacturing, the source shall initiate action required to accomplish the following objectives:
 - 5.2.3.1 Elimination of air contaminants from manufacturing operations by curtailing and ceasing as expeditiously as possible, all operations which are not necessary for the prevention of injury to persons or damage to equipment.
 - 5.2.3.2 Elimination of the emission of air contaminants by ceasing trade waste disposal processes which emit solid particles, gases, vapors or malodorous substances; maximum utilization of midday atmospheric turbulence for boiler lancing or soot blowing; and maximum reduction of heat load demands consistent with section 5.2.3.1.

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