

## **REGULATION 4.05     Hydrocarbon and Nitrogen Oxides Reduction 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 reduction of hydrocarbon and nitrogen oxides emissions under certain conditions.

#### **SECTION 1   Alerts**

Curtailment of sources of hydrocarbons and nitrogen oxides. When an alert is declared on reaching the criteria level for oxidants or nitrogen dioxide, the following control actions shall be implemented:

- 1.1            When the source of air contaminant is fuel fired electric power generating facilities, substantial reduction of emissions shall be accomplished by diverting electric power generation to facilities outside of the alert area.
- 1.2            When the source of air contaminant is fuel fired process steam generating facilities, substantial reduction of emissions shall be accomplished by substantial reduction of steam load demands consistent with continuing plant operation.
- 1.3            When the source of air contaminant is manufacturing industry including, but not limited to, the following classifications: surface coating, degreasing, nitric acid production, fertilizer manufacturing, and any other hydrocarbon or nitrogen oxide emitting sources, the following action shall be taken:
  - 1.3.1            Nitrogen dioxide alerts:
    - 1.3.1.1            Reduction of air contaminants from manufacturing operations by curtailing, postponing, or deferring production and operations, and
    - 1.3.1.2            In addition, maximum reduction of emissions shall be accomplished by deferring trade waste disposal operations that emit solid particles, gas vapors or malodorous substances; and maximum reduction of heat load demand for processing consistent with section 1.3.1.1.
  - 1.3.2            Oxidant alerts:
    - 1.3.2.1            All operations that emit hydrocarbons shall curtail, postpone, or defer production to the extent necessary to effect at least a 25% reduction of the instantaneous hydrocarbon emission levels existing at the time the alert is declared unless such reduction of the operation is demonstrated to be impractical because of some physical limitation of the operation.

#### **SECTION 2   Warnings**

Curtailment of sources of hydrocarbons and nitrogen oxides. When a warning is declared based on reaching the criteria level of oxidants or nitrogen dioxide, the following control actions shall be implemented:

- 2.1            When the source of air contaminant is fuel fired electric power generating facilities or is fuel fired process steam generating facilities, the provisions of section 1.1 shall apply.

2.2 When the source of air contaminant is manufacturing industry including, but not limited to, the following classifications: surface coating, degreasing, nitric acid production, fertilizer manufacturing, and any other hydrocarbon or nitrogen oxide emitting sources; the source shall initiate action required to accomplish the requirements specified in Regulation 4.04 sections 2.4, 2.4.2, 2.5.1, and 2.5.2.

**SECTION 3 Emergencies**

During emergencies, the procedures in Regulation 4.03 *General Abatement Requirements* Section 5 shall be implemented.

Adopted v1/4-19-72; effective 4-19-72; amended v2/6-13-79, v3/2-16-83.