

REGULATION 6.27 Standards of Performance for Existing Liquid Waste Incinerators

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 provides for the control of emissions from existing liquid waste incinerators.

SECTION 1 Applicability

This regulation applies to those facilities disposing of waste solvents, chemicals, and other flammable material by incineration that are in existence or have a construction permit issued by the District before the effective date of this regulation.

SECTION 2 Definitions

Terms used in this regulation not defined herein shall have the meaning given them in Regulation 1.02.

- 2.1 "Auxiliary fuel" means natural gas, propane, butane, distillate fuel oil or other fuel free of toxic compounds and containing not more than 0.5% incombustible particulate.
- 2.2 "Average gas temperature" is the mean temperature of the products of combustion while in the incinerator and prior to any spray chamber of air pollution control device.
- 2.3 "Combustible liquid waste" means any liquid waste with a heat content greater than 10,000 BTU/lb or capable of sustaining combustion in an incinerator without auxiliary fuel.
- 2.4 "Exit gas temperature" means the temperature of the products of combustion measured at the end of the incinerator and prior to any air pollution control device.
- 2.5 "Liquid waste" means any material in a liquid form that has no commercial value other than recovery of its recyclable components, or has been transferred to a facility for disposal.
- 2.6 "Liquid waste incinerator" is a device for incineration of liquid waste.
- 2.7 "Partially combustible liquid waste" means any liquid waste with a heat content greater than 5000 BTU/lb and less than 10,000 BTU/lb requiring auxiliary fuel for sustained combustion.
- 2.8 "Residence time" means the time required for the products of combustion to travel from the liquid waste burner to the exit of the incinerator while maintaining the average gas temperature associated with the residence time.

SECTION 3 Standard for Particulate Matter

The owner or operator subject to this regulation shall not cause the emission of particulate matter from a liquid waste incinerator to exceed:

- 3.1 0.2 gr/scf corrected to 12% CO₂ excluding the contribution of CO₂ from auxiliary fuel, and
- 3.2 20% opacity.

SECTION 4 Equipment Standards

- 4.1 Incineration of partially combustible liquids shall be accomplished in an incinerator equipped with means for firing sufficient auxiliary fuel to sustain combustion at temperatures as required by this regulation. No auxiliary fuel shall be required for incineration of combustible liquids unless otherwise required by the District.
- 4.2 Incineration of liquid wastes with a viscosity of 750 SSU or greater shall be accomplished in a burner equipped with steam or air atomization.
- 4.3 Incineration of halogenated liquid wastes shall be accomplished in an incinerator equipped with wet scrubber.
- 4.4 Incineration of liquid wastes containing inorganic salts shall be accomplished in an incinerator equipped with a particulate control device of sufficient efficiency to meet the emission standard in sections 3.1 and 3.2.
- 4.5 The incinerator shall be capable of maintaining an average gas temperature of 1600 °F with a residence time as determined by the District to provide complete combustion of the liquid waste.
- 4.6 The incinerator shall be equipped with a fail-safe device designed to interrupt the delivery of liquid waste to the burner in the event of:
 - 4.6.1 Fire or flame reaching the line delivering waste to the burner; or
 - 4.6.2 Loss of burner flame.
- 4.7 The delivery pipe to the liquid waste burner shall be equipped with a flow indicator capable of measuring the maximum demand of the burner.
- 4.8 The incinerator shall be equipped with an indicating pyrometer or thermometer to measure the exit gas temperature.

SECTION 5 Recordkeeping

The owner or operator of any liquid waste incinerator subject to this regulation shall record the following information:

- 5.1 Daily operating hours of liquid waste incinerator, and
- 5.2 Daily log of liquid waste received and specifying:
 - 5.2.1 The amount received;
 - 5.2.2 A general description of the waste;
 - 5.2.3 The source from whom the waste was received; and
 - 5.2.4 A designation of whether the waste contains material toxic to humans.

SECTION 6 Timetable for Compliance

- 6.1 Compliance with section 4 shall occur on or before February 1, 1980.
- 6.2 Compliance with all other requirements of this regulation shall occur as of the effective date of this regulation.

Adopted v1/6-13-79; effective 6-13-79.