

R307. Environmental Quality, Air Quality.

R307-348. Magnet Wire Coatings.

R307-348-1. Purpose.

The purpose of this rule is to limit volatile organic compound (VOC) emissions from ovens of magnet wire coating operations.

R307-348-2. Applicability.

(1) R307-348 applies to sources located in Cache, Davis, Salt Lake, Utah and Weber counties that have the potential to emit 2.7 tons per year or more of VOC, including related cleaning activities.

(2) In Box Elder and Tooele counties, R307-348 applies to the following sources:

(a) Existing sources as of February 1, 2013, with the potential to emit 5 tons per year or more of VOC, including related cleaning activities; and

(b) New sources as of February 1, 2013, that have the potential to emit 2.7 tons per year or more of VOC, including related cleaning activities.

R307-348-3. Definitions.

The following additional definition applies to R307-348:

"Magnet wire coating" means the process of applying coating of electrical insulating varnish or enamel to aluminum or copper wire for use in electrical machinery.

R307-348-4. Emission Standards.

(1) No owner or operator of a magnet wire coating oven may cause, allow or permit discharge into the atmosphere of any VOC in excess of 0.20 kilograms per liter of coating (1.7 pounds per gallon), excluding water, and exempt solvents (compounds not classified as VOCs) delivered to the coating applicator from magnet wire coating operations.

(a) Equivalency calculations for coatings shall be performed in units of pounds VOCs per gallon of solid rather than pounds VOCs per gallon of coating when determining compliance.

(b) The equivalent emission limit is 2.2 pounds VOCs per gallon solids.

(2) The emission limitations specified above shall be achieved by:

(a) The application of low solvent content coating technology; or

(b) The use of an add-on control device on magnet wire coating ovens as specified in R307-348-6.

R307-348-5. Work Practices and Recordkeeping.

(1) The owner or operator shall:

(a) Store all VOC-containing coatings and cleaning materials in closed containers;

(b) Minimize spills of VOC-containing coatings and cleaning materials;

(c) Clean up spills immediately;

(d) Convey any coatings, thinners, and cleaning materials in closed containers or pipes;

(e) Close mixing vessels that contain VOC coatings and other materials except when specifically in use; and

(f) Minimize usage of solvents during cleaning of storage, mixing, and conveying equipment.

(2) All sources subject to R307-348 shall maintain records demonstrating compliance with all provisions of R307-348, and these records shall be available to the director upon request.

R307-348-6. Optional Add-On Controls.

(1) The owner or operator may install and maintain an incinerator provided that the emission control device will attain at least 90% efficiency performance.

(2) The owner or operator of a control device shall provide documentation that the emission control system will attain the requirements of R307-348-6.

(3) Emission control systems shall be operated and maintained in accordance with the manufacturer recommendations. The owner or operator shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.

R307-348-7. Compliance Schedule.

(1) All sources in Davis and Salt Lake counties are subject to this rule as of the effective date of this rule.

(2) Sources in Box Elder, Cache, Utah, Tooele, and Weber counties shall be in compliance with this rule by January 1, 2014.

KEY: air pollution, emission controls, surface coating, magnet wire

Date of Enactment or Last Substantive Amendment: February 1, 2013

Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)