

R307. Environmental Quality, Air Quality.

R307-313. VOC and Blue Smoke Controls for Hot Mix Asphalt Plants

R307-313-1. Purpose.

Rule R307-313 establishes emission controls and work practice standards for the emissions of blue smoke and volatile organic compounds (VOC) from hot mix asphalt plants and associated oil storage tanks.

R307-313-2 Applicability.

Rule R307-313 applies to stationary hot mix asphalt plants and their associated oil storage tanks located in Salt Lake, Davis, Weber, Utah, and Tooele counties with an annual production level greater than or equal to 75,000 tons of hot mix asphalt per rolling 12-month period.

R307-313-3 Definitions.

Terms defined in Section 307-312-3 are incorporated by reference.

"Blue smoke" means a mixture of visible emissions and VOC emissions from HMA plants that results from the process of mixing hot oil with aggregate.

"Dryer" means a piece of machinery where aggregate is dried and heated during the asphalt manufacturing process, usually drum or cylinder shaped.

"Load out" means an area used for the loading of material from a silo or a batch tower into a truck or train or other means of transport, often located under a silo.

"Silo" means a tower used to store material.

"Storage tank" means any storage vessel where oils are heated and stored before mixing with aggregate.

"Warm mix asphalt" means asphalt produced at a temperature at or below 275 degrees F (135 degrees c).

R307-313-4. Blue Smoke and VOC Emissions from Hot Mix Asphalt Plants.

(1). The owner or operator shall install emission capture and control systems that capture and reduce blue smoke emissions from dryers, conveyors, silos, and load out areas. The owner or operator shall operate emission capture and control systems at all times during the production of hot mix asphalt products. Emission capture and control systems shall also reduce VOC emissions from captured blue smoke as verified by the manufacturer of control systems upon installation.

(2). Visible emissions from emission points subject to Rule R307-313-4 shall not exceed opacity limits of 10% at emission points covered by Section R307-313-4 as measured according to 40 CFR 60, Appendix A, Method 9.

(3). Owners or operators whose production consists entirely of warm mix asphalt shall be exempt from the provisions in Section R307-313-4.

R307-313-5. VOC Emissions from Storage Tanks.

(1). Storage tanks shall be equipped with VOC capture and control systems such as a condenser and a carbon-filled vessel which shall reduce VOC emissions as verified by the manufacturer of capture and control systems upon installation.

(2). Emission points subject to R307-313-5 shall operate with no visible emissions as measured according to 40 CFR 60, Appendix A, Method 9.

R307-313-6. Recordkeeping.

(1). The owner or operator shall:

(a). Retain a copy of the manufacturer's recommendations for proper operation and maintenance of equipment in Sections R307-313-4 and R307-313-5.

(b). Establish a plan for scheduled maintenance based upon these recommendations.

(c). Maintain records showing proper operation and maintenance of equipment in accordance with the manufacturer's recommendations for equipment referenced in Section R307-313-4 and Section R307-313-5.

(d). Maintain records of the temperature at which asphalt products were produced.

(2). These records shall be stored for at least 2 years and shall be made available to the director upon request.

R307-313-7. Compliance Schedule.

The owners and operators of hot mix asphalt plants subject to Rule R307-313 shall comply with R307-313 by May 1, 2023.

KEY: air pollution, volatile organic compounds, VOC, hot mix asphalt, asphalt, aggregate, blue smoke

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