

# Subpart HH-Standards of Performance for Lime Manufacturing Plants

## Applicability and designation of affected facility - §60.340

General	<ol style="list-style-type: none"> <li>1.) Each rotary lime kiln used in the manufacture of lime.</li> <li>2.) Except facilities used in the manufacture of lime at kraft pulp mills.</li> <li>3.) Facility commences construction or modification after May 3, 1977.</li> </ol>
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## Standard for particulate matter - §60.342

Source	All Emissions
Rotary lime kilns	<p>Facility shall not emit any gases which:</p> <ol style="list-style-type: none"> <li>1.) Contain particulate matter in excess of 0.30 kilogram per megagram (0.60 lb/ton) of stone feed.</li> <li>2.) Exhibit greater than 15 percent opacity when exiting from a dry emission control device.</li> </ol>

## Monitoring of emissions and operations - §60.343

Source	Monitoring and Operations
General	For reports required under §60.7(c), periods of excess emissions that shall be reported as stated and according to the schedule in §60.343 (e).
Rotary lime kilns	Facility shall install, calibrate, maintain, and operate a continuous monitoring system, except as provided in paragraphs (b) and (c) of this section, to monitor and record the opacity of a representative portion of the gases discharged into the atmosphere. The span of this system shall be set at 40 percent opacity.
Rotary lime kiln having a control device with a multiple stack exhaust or a roof monitor	Facility may in lieu of the continuous opacity monitoring requirement of §60.343(a), monitor visible emissions at least once per day of operation by using a certified visible emissions observer who, for each site where visible emissions are observed, will perform three Method 9 tests and record the results. For additional information see §60.343(b).
Rotary lime kiln using a wet scrubbing emission control device	<ol style="list-style-type: none"> <li>1.) Facility shall not be required to monitor the opacity of the gases discharged as required in §60.343(a),</li> <li>2.) Facility shall install, calibrate, maintain, operate, and record the resultant information from the following continuous monitoring devices: <ol style="list-style-type: none"> <li>1. A monitoring device for the continuous measurement of the pressure loss of the gas stream through the scrubber. The monitoring device must be accurate within <math>\pm 250</math> pascals (one inch of water).</li> <li>2. A monitoring device for continuous measurement of the scrubbing liquid supply pressure to the control device. The monitoring device must be accurate within <math>\pm 5</math> percent of the design scrubbing liquid supply pressure.</li> </ol> </li> </ol>
Lime manufacturing plant	For the purpose of conducting a performance test under § 60.8, install, calibrate, maintain, and operate a device for measuring the mass rate of stone feed to any affected rotary lime kiln. The measuring device used must be accurate to within $\pm 5$ percent of the mass rate over its operating range.

## Test methods and procedures - §60.344

Source	Methods and Procedures
General	<ol style="list-style-type: none"><li>1.) In conducting the performance tests required in §60.8, use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b).</li><li>2.) Determine compliance with the particulate matter standards in §60.342(a) as follows:<ol style="list-style-type: none"><li>a.) The emission rate (E) of particulate matter shall be computed for each run using the equation: <math>E=(cs Qsd)/PK</math>. For variable and unit information see §60.344(b) (1).</li><li>b.) The monitoring device of §60.343(d) shall be used to determine the stone feed rate (P) for each run.</li><li>c.) Method 9 and the procedures in §60.11 shall be used to determine opacity.</li></ol></li><li>3.) During the particulate matter run, use the monitoring devices in §60.343(c)(1) and (2) to determine the average pressure loss of the gas stream through the scrubber and the average scrubbing liquid supply pressure.</li></ol>
Facility using negative-pressure fabric filters and other types of control devices	Facility shall use Method 5 see §60.344(b) (1) for more information.
Facility using positive-pressure fabric filters	Facility shall use Method 5D see §60.344(b) (1) for more information.