# Subpart UUU-Standards of Performance for Calciners and Dryers in Mineral Industries

## Applicability and designation of affected facility - § 60.730

| Source | All Emissions |
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| General | 1.) This subpart applies to the following facilities:<br>a.) All calciners and dryers at a mineral processing plant.<br>b.) Feed and product conveyors are not considered part of the affected facility.<br>c.) For the brick and related clay products industry, only the calcining and drying of raw materials prior to firing of the brick are covered.<br>d.) Facilities under sentence (1-3) of this section and commences construction, modification, or reconstruction after April 23, 1986.<br>2.) This subpart does not apply to the following facilities:<br>a.) A facility that is subject to the provisions of subpart LL (Metallic Mineral Processing Plants)<br>b.) Processes and process units used at mineral processing plants<br>(i) Vertical shaft kilns in the magnesium compounds industry<br>(ii) Chlorination-oxidation process in the titanium dioxide industry<br>(iii) Coating kilns, mixers, and aerators in the roofing granules industry<br>(iv) Tunnel kilns, tunnel dryers, apron dryers, and grinding equipment that also dries the process material used in any of the 17 mineral industries (as defined in §60.731, "Mineral processing plant"). |

## Standards for particulate matter - §60.732

| Source | All Emissions |
|---|---|
| General | Facility shall comply with the following emission limitations on and after the date on which the initial performance test required by §60.8 is completed, but not later than 180 days after the initial startup, whichever date comes first.<br>1.) Facility shall not emit particulate matter in excess of 0.092 gram per dry standard cubic meter (g/dscm) [0.040 grain per dry standard cubic foot (gr/dscf)] for calciners and for calciners and dryers installed in series and in excess of 0.057 g/dscm for dryers; and<br>2.) Facility emissions shall not exhibit greater than 10 percent opacity, unless the emissions are discharged from an affected facility using a wet scrubbing control device. |

## Reconstruction - §60.733

| Source | All Emissions |
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| General | 1.) Cost of replacement of equipment subject to high temperatures and abrasion on processing equipment shall not be considered in calculating either the "fixed capital cost of the new components" or the<br>2.) "Fixed capital cost that would be required to construct a comparable new facility" under §60.15.<br>3.) Calciner and dryer equipment subject to high temperatures and abrasion are end seals, flights, and refractory lining. |

## Monitoring of emissions and operations - §60.734

| Source | All Emissions |
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| Facilities that use a dry control device to comply with the mass emission standard (with the exception of the process units described in **§60.734** (b)-(d) | Facility shall install, calibrate, maintain, and operate a continuous monitoring system to measure and record the opacity of emissions discharged into the atmosphere from the control device. |
| Facilities found in **§**60.734 (b) | Facility may in lieu of a continuous opacity monitoring system, the owner or operator may have a certified visible emissions observer measure and record three 6-minute averages of the opacity of visible emissions to the atmosphere each day of operation in accordance with Method 9 of appendix A of part 60. |
| Facilities found in **§**60.734 (c) | Facilities are exempt from the monitoring requirements of this section. |
| Facilities that use a wet scrubber to comply with the mass emission standard | Facility shall install, calibrate, maintain, and operate monitoring devices that continuously measure and record the pressure loss of the gas stream through the scrubber and the scrubbing liquid flow rate to the scrubber. The pressure loss monitoring device must be certified by the manufacturer to be accurate within 5 percent of water column gauge pressure at the level of operation. The liquid flow rate monitoring device must be certified by the manufacturer to be accurate within 5 percent of design scrubbing liquid flow rate. |

## Recordkeeping and reporting requirements - §60.735

| Source | All Emissions |
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| General | 1.) Records of the measurements required in §60.734 of this subpart shall be retained for at least 2 years.<br>2.) Submit written reports semiannually of exceedances of control device operating parameters required to be monitored by §60.734 of this subpart. For the purpose of these reports, see §60.735 (c) (1-3) for exceedances. |
| Facilities use a wet scrubber to comply with §60.732 | 1.) Facility shall determine and record once each day, from the recordings of the monitoring devices in §60.734(d), an arithmetic average over a 2-hour period of both the change in pressure of the gas stream across the scrubber and the flowrate of the scrubbing liquid.<br>2.) The requirements of this section remain in force until and unless the Agency, in delegating enforcement authority to a State under section 111(c) of the Clean Air Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such State. In that event, affected facilities within the State will be relieved of the obligation to comply with this section provided that they comply with the requirements established by the State. |

## Test methods and procedures - §60.736

| Source | **All emissions** |
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| General | 1.) Facility shall use 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).<br>2.) Facility shall determine compliance with the particulate matter standards in §60.732 as follows:<br>a.) Method 5 shall be used to determine the particulate matter concentration.<br>b.) Method 9 and the procedures in §60.11 shall be used to determine opacity from stack emissions. |
| Facilities using a wet scrubber | During the initial performance test, use the monitoring devices of §60.734(d) to determine the average change in pressure of the gas stream across the scrubber and the average flowrate of the scrubber liquid during each of the particulate matter runs. The arithmetic averages of the three runs shall be used as the baseline average values for the purposes of §60.735(c). |

## Delegation of authority - §60.737

| **Source** | **All emissions** |
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| General | 1.) In delegating implementation and enforcement authority to a State under section 111(c) of the Act, the authorities contained in paragraph (b) of this section shall be retained by the Administrator and not transferred to a State.<br>2.) Authorities which will not be delegated to States: No restrictions |