

**7011.9926 SUBSTITUTE DEVICES FOR FABRIC FILTERS.**

Subpart 1. **Wet collectors.** Where an owner or operator deems that the use of fabric filter installations for operations subject to parts 7011.9922, subparts 1 and 2 and 7011.9923, subpart 2 would create a fire or explosive hazard, application for approval to use wet collectors shall be made to the commissioner. Such application shall include sufficient information to demonstrate that fabric filters cannot be used. The commissioner shall authorize the use of wet collectors if the commissioner determines that fabric filters cannot be used.

Wet collectors must be operated with a unit contacting energy of not less than 40 inches water gage. Unit contacting energy is the sum of the gas static pressure head decrease across the contact chamber of the collector, the energy per unit weight of gas handled which is required to introduce scrubbing liquid into the contact chamber, and the shaft energy per unit weight of gas handled which is applied to effect contact between the scrubbing liquid and the gas stream. No bypass devices are permitted.

Wet collectors do not meet the requirements of this subpart if either of the following conditions exist:

A. leakage of gases, containing particulate matter, from the control system prior to passage through the wet collector; or

B. operation at a gas static pressure head decrease, a scrubbing medium flow rate, or a mechanical energy level less than specified by the manufacturer for optimum collection efficiency.

Subp. 2. **Other control equipment.** Compliance with any applicable provision of parts 7011.9921 to 7011.9927 which refers to a control equipment specification shall be demonstrated in accordance with this part if the referenced control equipment is not used.

A. The owner or operator of the emissions unit, or vendor of emission control equipment, shall make available to the commissioner sufficient information as may be required to demonstrate that the substitute equipment will provide the degree of emission control which, in the judgment of the commissioner, is at least as stringent as that which would be achieved by using the equipment specified in the applicable standard. To the maximum extent practicable, the determination of equivalent degree of emission control will be based upon operation at the actual conditions at which the substitute device is, or will be, operated on the emissions unit. Factors which will be considered include, but are not limited to, total mass collection efficiency, collection efficiency versus particle size reliability, and maintenance practices associated with proper operation of the substitute device. The method used to determine the total mass collection efficiency and particle size distribution must be approved by the commissioner.

B. The owner or operator of the emissions unit, or vendor of emission control equipment, shall submit to the commissioner performance data including, but not limited to, total mass collection efficiency and collection efficiency versus particle size of the substitute control device under actual operating conditions which are representative of those of the existing or planned operating conditions.

C. In cases for which it is not reasonable, in the judgment of the commissioner, to require an owner or operator, or vendor of emission control equipment, to submit performance data which are based upon actual operating conditions which are representative thereof, the owner or operator, or vendor of emission control equipment, shall submit to the commissioner performance data on comparative tests, using subtle standard test aerosols, of the substitute device and the device specified by the applicable standard. The performance data shall include, but is not limited to, the total mass collection efficiency and the collection efficiency versus particle size of the substitute device and the device specified by the applicable standard.

Subp. 3. **Collection efficiency of substitute devices for fabric filters.** The total mass collection efficiency of any substitute device for a fabric filter shall not be less than 99.9 percent.

The total mass collection efficiency of any substitute device for a wet collector shall not be less than 99.5 percent.

**Statutory Authority:** *MS s 116.07*

**History:** *L 1987 c 186 s 15; 13 SR 2154; 18 SR 614*

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