

7007.0501 ADDITIONAL CONTENTS REQUIRED IN PERMIT APPLICATION FOR WASTE COMBUSTOR.

Subpart 1. **Additional requirements.** In addition to the information required by part 7007.0500, a person who requests an air emission permit for a waste combustor subject to parts 7011.1201 to 7011.1285 shall submit to the commissioner the information required by subparts 2 to 7.

Subp. 2. **Information required.** The application must contain information describing the solid wastes to be combusted, the combustion system, and the method of operating the combustion system and must include the information in items A to E. The documents referred to in this subpart are incorporated by reference in part 7011.1205.

A. A current solid waste composition study, consisting of the results of an analysis of the solid wastes or mixtures of solid wastes to be combusted, which uses the sampling methods prescribed in "Test Methods for Evaluating Solid Waste," SW-846, or any other sampling method approved in writing by the commissioner. The commissioner shall approve a sampling method where the commissioner determines that the precision and accuracy of the method are equivalent to that of the method set forth in "Test Methods for Evaluating Solid Waste," SW-846.

The study shall include all of the analyses in subitems (1) to (4).

(1) A fractional analysis of the solid waste, including percentage by weight of combustible and noncombustible materials in the solid waste stream and a solid waste sort that identifies, at a minimum, the percent by weight of paper, cardboard, plastic, ferrous and nonferrous metals, solid wastes which contain mercury, glass, organic, and inorganic material in the solid waste stream. The fractional analysis shall identify recyclable and problem materials.

(2) A proximate analysis of the solid waste, which shall include the percentage of volatile matter, moisture content, ash content, and fixed carbon by difference. Analysis methods used to determine the proximate analysis of the solid waste shall be performed in accordance with ASTM methods E897, E790, and E830 for volatile matter, moisture content, and ash content, respectively.

(3) An ultimate analysis of the solid waste, which shall include the percentage of carbon, hydrogen, nitrogen, oxygen, sulfur, chlorine, and oxygen by difference. Analysis methods used to determine the ultimate analysis of the solid waste shall be performed in accordance with ASTM methods E777, E778, E775, and E776 for carbon and hydrogen, nitrogen, sulfur, and chlorine, respectively.

(4) The heat value of the solid waste. Analysis methods used to determine the heat value of the solid waste shall be performed in accordance with either ASTM E955 or any other analysis method approved in writing by the commissioner. The commissioner shall approve an analysis method where the commissioner determines precision and accuracy of the method are equivalent to that of the methods set forth in ASTM E955.

B. A detailed engineering description of each waste combustor unit, including:

(1) the manufacturer's name and model number, if determined at the time of application for an air emission permit;

(2) the type of combustion system;

(3) a description of the auxiliary fuel system, including the type and feed rate system controls available for the fuel systems and the number, size, and location of burners;

(4) the design capacity of each waste combustor unit;

(5) a description of solid waste handling and solid waste feed controls, including a description of the fuel feed equipment, automatic feed controls, shutoff devices, and the maximum feed rate for which the equipment was designed in pounds per hour;

(6) location and description of devices and controls which indicate temperature and air flow; and

(7) for waste combustors which combust solid waste with another fuel, other than the auxiliary fuel, a description of how solid waste and other fuels are combined.

C. A description of the site, including storage space for solid waste, noncombustible materials, chemicals, recyclables, the solid wastes not allowed to be combusted by part 7011.1220, and ash.

D. A description of the ash handling facilities, including on-site storage, and transport within the boundaries of the stationary source or emission facility.

E. If the unit load is measured using a method other than steam flow as allowed by part 7011.1260, subpart 3, item A, subitem (2), a description of the alternative method that meets part 7011.1265, subpart 4a.

Subp. 3. **Performance test data.** In applications for permit reissuance, the permit application shall contain summary performance test data collected under the requirements of part 7011.1270 which represent the current operating practices of the waste combustor.

Subp. 4. **Industrial solid waste management plan.** The application shall contain an industrial waste management plan in accordance with part 7011.1250.

Subp. 5. **Solid wastes containing mercury.** The application for Class C, D, III, and IV waste combustors shall contain a plan to separate solid wastes which contain mercury in accordance with part 7011.1255.

Subp. 6. **Reducing level of toxic contaminants in ash.** An application for waste combustors which will combust mixed municipal solid waste or refuse-derived fuel must contain the information described in items A and B.

A. The application shall describe the specific functions to be performed, activities to be undertaken, and the timing of these functions and activities to the maximum extent feasible and prudent, in order to:

- (1) reduce the total content and leachable levels of toxic contaminants in ash, including, but not limited to, cadmium and lead;
- (2) reduce the quantity of ash including, but not limited to, the amount of noncombustibles in the solid waste stream; and
- (3) reduce the quantity of solid waste processing residuals that require disposal.

B. An applicant seeking reissuance of a permit to combust mixed municipal solid waste or refuse-derived fuel must provide, for each of the previous five years, the amount of waste combusted, the amount of flue gas conditioning chemicals used, and the amount of ash disposed. The ratio of ash generated less flue gas conditioning agents to waste combusted shall be computed for each of the previous five years. The application shall also include data on the constituents of the waste combustor's ash and how to further reduce the level of toxic contaminants in the ash.

Subp. 7. **Ash management plan.** The application shall include the applicant's plan for disposal of the ash generated by the waste combustor, treatment of water generated from quenching the ash at the facility, and any plans which the applicant has for ash utilization. The plans shall include the sites and processes for management and final disposal of the ash, and shall identify any permits the waste combustor owner needs to use each site or process, including permits for leachate treatment.

Subp. 8. **Class IV stack height.** Class IV applications shall include the applicant's design for installation and operation of equipment to achieve ambient pollutant concentrations that would have been achieved with the use of the minimum stack height required in part 7011.1235, subpart 1.

Statutory Authority: *MS s 116.07*

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