

**CHAPTER 74:36:17**  
**RAPID CITY STREET SANDING AND DEICING**

Section

74:36:17:01	Applicability.
74:36:17:02	Reasonable available control technology.
74:36:17:03	Street sanding specifications.
74:36:17:04	Street sanding and deicing plan.
74:36:17:05	Street sanding and sweeping recordkeeping.
74:36:17:06	Inspection authority.

**74:36:17:01. Applicability.** This rule applies to the application of or removal of any street sanding or deicing materials on the streets in the Rapid City zone. The Rapid City zone comprises the streets within the city limits of Rapid City bordered on the west and south by the city limits, on the north by the southern right-of-way boundary of Interstate 90, and on the east by the eastern right-of-way boundary of Highway 79.

**Source:** 22 SDR 104, effective February 11, 1996.

**General Authority:** SDCL 34A-1-6, 34A-1-15.

**Law Implemented:** SDCL 34A-1-6, 34A-1-15, 34A-1-38.

**74:36:17:02. Reasonable available control technology.** Any operation to which this rule applies shall provide for reasonable available control technology to prevent the entrainment or reentrainment of road dust into the ambient air. Such controls include the following practices:

(1) For operations involving the application of street sanding material and deicing agents on paved roads:

(a) Utilizing forecasting of weather events to determine whether to pretreat roads with deicing agent or to apply no treatment;

(b) Monitoring street temperatures to determine if deicing agents or street sanding materials need to be applied;

(c) Limiting the application of street sanding material to intersections, inclined and curved roads, school zones, hospital zones, emergency routes, and fire station zones to the greatest extent possible; unless icy conditions exist; and

(d) The use of pretreatment deicing or antiskid agents in place of aggregate street sanding materials to the greatest extent possible;

(2) For operations involving the removal of street sanding and deicing agents from paved roads:

(a) Flushing core downtown streets with water, except where meteorological conditions endanger public safety; and

(b) Removing street sanding material from roads when road conditions become dry, using the most efficient cleaning devices on high traffic roads.

**Source:** 22 SDR 104, effective February 11, 1996.

**General Authority:** SDCL 34A-1-6, 34A-1-15.

**Law Implemented:** SDCL 34A-1-6, 34A-1-15, 34A-1-19, 34A-1-38.

**74:36:17:03. Street sanding specifications.** The following are the street sanding specifications to be used in the Rapid City zone:

(1) A durability or hardness as defined in Mohs scale of greater than 6 for 70 percent of the material applied to the streets for deicing or skid control;

(2) No more than 3 percent of the total particle material content by weight may pass through a No. 200 sieve as described in ASTM C136-93, "Standard Test Method for Sieve Analysis of Fine and Course Aggregates," November 1993.

For street sanding material, these criteria only apply to the material before the addition of salts or chemicals. Material of a lesser hardness may be used on inclined or curved roads for safety purposes or where it can be demonstrated that a material can provide at least a 25 percent reduction in air pollutants.

**Source:** 22 SDR 104, effective February 11, 1996.

**General Authority:** SDCL 34A-1-6, 34A-1-15.

**Law Implemented:** SDCL 34A-1-6, 34A-1-15, 34A-1-19, 34A-1-38.

**References:**

Page 49 and 50, **Physical Geology the Structure and Processes of the Earth, 1982**, B. Clark Burchfiel, et al, Charles E. Merrill Publishing Company. Copies may be obtained from the Department of Environment and Natural Resources free of charge.

**Standard Test Method for Sieve Analysis of Fine and Course Aggregates**, designation C 136-93, 4 pages, American Society for Testing and Materials, November 1993. Copies are available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Cost: \$15.

**74:36:17:04. Street sanding and deicing plan.** Any state, county, or municipal entity or their contractor with a street sanding or deicing operation in the Rapid City zone shall submit a plan to the department on April 15, 1996, and every three years following that date. The department shall approve or disapprove the plan within 60 days after receiving it, unless the department requests further information. The entity has 20 days to reply to a request for further information. The day the department receives the requested information initiates a new 60-day approval or disapproval period. The plan must include the following:

- (1) A description of the reasonable available control technologies in § 74:36:17:02 that the entity intends to use;
- (2) A description of how the requirements in § 74:36:17:03 will be attained;
- (3) A description of the test methods used in determining attainment with § 74:36:17:03;
- (4) An emissions inventory of the streets in the Rapid City zone;
- (5) A map identifying street cleaning areas, frequency of cleaning, priorities, and the type of street cleaning device used in each area.

If elements of the approved plan change during the three year period, the entity shall submit the modifications to the department for approval. The procedure for approval or disapproval of the modifications is the same as the procedure for the original plan.

**Source:** 22 SDR 104, effective February 11, 1996.

**General Authority:** SDCL 34A-1-6, 34A-1-15.

**Law Implemented:** SDCL 34A-1-6, 34A-1-12, 34A-1-15, 34A-1-38.

**74:36:17:05. Street sanding and sweeping recordkeeping.** Operators of street sanding and sweeping equipment working in the Rapid City zone shall maintain records to document the street sanding and sweeping operations. These records shall be maintained for at least two years. These records shall contain the following documentation:

- (1) Street sanding:
  - (a) Date;
  - (b) Sanding route and area;
  - (c) Street conditions;
  - (d) Type and amount of sanding material used; and
  - (e) Miles driven;

(2) Street sweeping:

- (a) Date;
- (b) Area cleaned; and
- (c) Type of vehicle used.

**Source:** 22 SDR 104, effective February 11, 1996.

**General Authority:** SDCL 34A-1-6, 34A-1-15.

**Law Implemented:** SDCL 34A-1-6, 34A-1-12, 34A-1-15, 34A-1-38.

**74:36:17:06. Inspection authority.** The secretary may enter the storage site of any user of street sanding material covered by this chapter for the purpose of obtaining samples of materials, inspecting records, or conducting any inspection authorized under SDCL chapter 34A-1.

**Source:** 22 SDR 104, effective February 11, 1996.

**General Authority:** SDCL 34A-1-6, 34A-1-15.

**Law Implemented:** SDCL 34A-1-6, 34A-1-13, 34A-1-15, 34A-1-38, 34A-1-41.