

1 Department of Transportation

2

3 Adopted Permanent Rules Relating to Bridge Inspection and

4 Inventory

5

6 Rules as Adopted

7 8810.9000 DEFINITIONS.

8 [For text of subpart 1, see M.R.]

9 Subp. 2. **Bridge.** "Bridge" is defined as a structure
10 including supports erected over a depression or an obstruction
11 such as water, highway, or railway, having a track or passageway
12 for carrying traffic or other moving loads, and having an
13 opening measured horizontally along the center of the roadway of
14 ten feet or more between undercopings of abutments, between
15 spring line of arches, or between extreme ends of openings for
16 multiple boxes. Bridge also includes multiple pipes where the
17 clear distance between openings is less than half of the smaller
18 contiguous opening. Illustrations of measurements are shown in
19 part 8810.8000, subpart 2, figures 1 to 4. This definition of a
20 bridge includes, for application of parts 8810.9000 to
21 8810.9700, only those railroad bridges over or under a public
22 highway or street.

23 Subp. 3. **Bridge inspector's training manual.** The Bridge
24 Inspector's Training Manual referred to in parts 8810.9000 to
25 8810.9700 is the training manual published by the Federal
26 Highway Administration. It may be purchased from the
27 Superintendent of Documents, U.S. Government Printing Office,
28 Washington, D.C. 20402.

29 Subp. 4. **Inspection.** The term "inspection" means
30 examining a structure, evaluating the physical condition
31 observed, and reporting the observations and evaluations on the
32 bridge inspection report form as adopted by the commissioner.

33 [For text of subps 5 to 7, see M.R.]

34 8810.9100 PURPOSE AND SCOPE.

35 Subpart 1. **Purpose.** The purpose of parts 8810.9000 to

1 8810.9700 is to carry out the mandate of the legislature and to
2 implement that mandate as set forth in Minnesota Statutes,
3 chapter 165, with reference to the inspection and inventory of
4 bridges in the state of Minnesota.

5 Subp. 2. **Scope.** The scope of parts 8810.9000 to 8810.9700
6 is confined to and consistent with Minnesota Statutes, section
7 165.03.

8 8810.9200 APPLICATION OF INSPECTION AND INVENTORY STANDARDS.

9 These bridge inspection and inventory standards apply to
10 bridges that:

11 A. lie within or cross the borders of the state of
12 Minnesota and are located wholly or partially within or over the
13 right-of-way of a state trunk highway;

14 B. are located wholly or partially within or over the
15 right-of-way of a county or town road;

16 C. are located wholly or partially within or over the
17 right-of-way of a street located within or along municipal
18 limits;

19 D. are toll bridges used by the general public; or

20 E. are located on state, county, or home rule charter
21 or statutory city lands and exist for the use of the general
22 public.

23 Railroad bridges are excluded from parts 8810.9000 to
24 8810.9700 except for railroad bridges over or under a public
25 highway or street.

26 Bridges on recreation trails used only by pedestrians,
27 bicycles, and recreational vehicles are excluded from parts
28 8810.9000 to 8810.9700, except for those bridges over or under a
29 public highway or street.

30 8810.9300 RESPONSIBILITY AND QUALIFICATIONS.

31 [For text of subpart 1, see M.R.]

32 Subp. 2. **Qualifications.** The individual in charge of the
33 bridge inspection and inventory for each organizational unit
34 described in subpart 1 must be registered in Minnesota as a
35 professional engineer.

1 The individual in charge of the inspection team must have
2 one of the following qualifications: be registered in Minnesota
3 as a professional engineer; have a minimum of five years
4 experience in bridge inspection assignments in a responsible
5 capacity and have completed a comprehensive training course
6 based on the Bridge Inspector's Training Manual developed by a
7 joint federal-state task force; have current certification as a
8 Level III or IV Bridge Safety Inspector under the National
9 Society of Professional Engineer's program for National
10 Certification in Engineering Technologies; or, be certified by
11 the commissioner of transportation as a Bridge Safety Inspector.

12 8810.9400 FREQUENCY OF INSPECTIONS AND INVENTORY.

13 Subpart 1. **Inspection.** Each bridge must be inspected
14 annually. Interim inspections at intervals of less than one
15 year may be necessary on bridges that are posted, bridges
16 subjected to extreme scour conditions, bridges subject to
17 significant substructure movement or settlement, and for other
18 reasons as specified or inferred in the AASHTO manual.

19 The thoroughness of each inspection depends on such factors
20 as age, traffic characteristics, state of maintenance, and known
21 deficiencies. The evaluation of these factors is the
22 responsibility of the engineer assigned the responsibility for
23 inspection as defined in part 8810.9300, subpart 1.

24 [For text of subp 2, see M.R.]

25 8810.9500 INSPECTION REPORT AND RATINGS.

26 Subpart 1. **Inspection.** The items to be inspected and
27 reported on the bridge inspection report form must include but
28 not be limited to those items specified in the AASHTO manual.
29 The Bridge Inspector's Training Manual must be used as a guide
30 to additional items to be inspected for special cases.

31 Subp. 2. **Ratings.** Each structure required to be inspected
32 under parts 8810.9000 to 8810.9700 must be rated to determine
33 its safe load carrying capacity and the rating must be reported
34 on a structure inventory sheet form provided by the commissioner
35 of transportation. A structure must be rerated when it is

1 determined that a significant change has occurred in the
2 condition of the structure. Ratings must be reviewed and the
3 structure rerated if necessary when the allowable legal load
4 using the structure is increased. Changes in the rating of a
5 bridge must be indicated on the structure inventory sheet form.

6

7 REPEALER. Minnesota Rules, part 8810.9800, is repealed.