

HOUSE BILL NO. 1215

Introduced by

Representatives Kempenich, DeKrey, Skarphol, Thorpe

Senators Solberg, Wanzek

1 A BILL for an Act to create and enact three new sections to chapter 19-20.2 of the North Dakota
2 Century Code, relating to the testing of anhydrous ammonia storage tanks; and to amend and
3 reenact sections 19-20.2-01 and 19-20.2-08.2 of the North Dakota Century Code, relating to
4 safety requirements for the handling and storage of anhydrous ammonia.

5 **BE IT ENACTED BY THE LEGISLATIVE ASSEMBLY OF NORTH DAKOTA:**

6 **SECTION 1. AMENDMENT.** Section 19-20.2-01 of the 1995 Supplement to the North
7 Dakota Century Code is amended and reenacted as follows:

8 **19-20.2-01. Anhydrous ammonia safety rules.** The commissioner of agriculture shall
9 adopt rules necessary to implement this chapter and adopt the 1989 American national
10 standard safety requirements for the storage and handling of anhydrous ammonia, except for
11 sections 2.5, 5.2.1, 5.2.2.1, and 5.2.2.2, and 9.7.3. Sections 2.5, 5.2.1, and 5.2.2.2 of the 1989
12 American national standard safety requirements are adopted as follows:

13 1. (2.5) Refers to paragraphs U-68, U-69, U-200, or U-201 of section VIII of the boiler
14 and pressure vessel code of the American society of mechanical engineers, 1949
15 edition, or to section VIII division I of the boiler and pressure vessel code of the
16 American society of mechanical engineers, 1950 edition, through the current
17 edition including addenda and applicable code case interpretations.

18 Where referenced in this standard only section VIII division I of the American
19 society of mechanical engineers code applies except that paragraphs UG-125
20 through UG-135 and paragraph UW-2 do not apply.

21 2. (5.2.1) Containers used with systems covered in sections 6, 9, 11, and 12 must be
22 made of steel or other material compatible with ammonia and tested in accordance
23 with the current American society of mechanical engineers code. An exception to
24 the American society of mechanical engineers code requirements is that

1 construction under table UW-12 at a basic joint efficiency of under eighty percent is
2 not authorized.

3 3. ~~(5.2.2.1) For new tanks installed or purchased after January 1, 1996, the entire~~
4 ~~container must be post weld heat treated after completion of all welds in or to the~~
5 ~~shells and heads. The method employed must be as prescribed in the American~~
6 ~~society of mechanical engineers code. It is recommended that post weld heat~~
7 ~~treatment be performed in a furnace of a size sufficient to accommodate the entire~~
8 ~~container. Welded attachments to pads may be made after post weld heat~~
9 ~~treatment.~~

10 4. (5.2.2.2) Steels used in fabricating pressure containing parts of a container may
11 not exceed a specified tensile strength of seventy-five thousand pounds per square
12 inch [517110 kilopascals], as noted in the American society of mechanical
13 engineers code, section II, part D, except that this does not apply to sections 8, 9,
14 and 10. Allowances for tensile strength of up to twenty thousand pounds per
15 square inch [137900 kilopascals] above those given in the American society of
16 mechanical engineers code, section II, part D, are permitted.

17 **SECTION 2.** A new section to chapter 19-20.2 of the North Dakota Century Code is
18 created and enacted as follows:

19 **Used anhydrous ammonia storage tanks - Requirements.** Before anhydrous
20 ammonia may be stored in a used tank, including a nurse tank, constructed after November 1,
21 1987, the person intending to store the anhydrous ammonia shall furnish the chief boiler
22 inspector with:

- 23 1. Evidence that the tank is registered with the national board of boiler and pressure
24 vessel inspectors; or
25 2. The manufacturer's data report on the tank.

26 **SECTION 3. AMENDMENT.** Section 19-20.2-08.2 of the 1995 Supplement to the
27 North Dakota Century Code is amended and reenacted as follows:

28 **19-20.2-08.2. Prohibitions.** The following action is prohibited:

- 29 1. Filling a nurse tank directly from a rail car.
30 2. Filling or using a nurse tank that has an outdated hose.
31 3. Filling or using a nurse tank that has outdated relief valves.

- 1 4. Towing more than two nurse tanks on a public road.
- 2 5. ~~Filling department of transportation transport containers not currently certified by~~
- 3 ~~the department of transportation.~~
- 4 6- Filling anhydrous ammonia storage tanks not meeting the requirements of this
- 5 chapter.

6 **SECTION 4.** A new section to chapter 19-20.2 of the North Dakota Century Code is
7 created and enacted as follows:

8 **Hydrostatic test procedures.** Any hydrostatic test conducted under section
9 19-20.2-07 must comply with the requirements of the national board of boiler and pressure
10 vessel inspectors code of inspection and be conducted in a manner approved by the chief boiler
11 inspector.

12 **SECTION 5.** A new section to chapter 19-20.2 of the North Dakota Century Code is
13 created and enacted as follows:

14 **Wet fluorescent magnetic particle test procedures.** Any wet fluorescent magnetic
15 particle test conducted under section 19-20.2-07 must comply with the requirements of the
16 society for nondestructive testing of pressure vessel welds and must be conducted by a person
17 certified as a level II technician by the society.