

**FIRST ENGROSSMENT
with Senate Amendments**

Fifty-fifth
Legislative Assembly
of North Dakota

ENGROSSED HOUSE BILL NO. 1215

Introduced by

Representatives Kempenich, DeKrey, Skarphol, Thorpe

Senators Solberg, Wanzek

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

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

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

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

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

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

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

1 the American society of mechanical engineers code requirements is that
2 construction under table UW-12 at a basic joint efficiency of under eighty percent is
3 not authorized.

4 3. (5.2.2.1) For new ~~tanks~~ containers installed or purchased after January 1, 1996,
5 the entire container must be post-weld heat treated after completion of all welds in
6 or to the shells and heads. The method employed must be as prescribed in the
7 American society of mechanical engineers code. It is recommended that
8 post-weld heat treatment be performed in a furnace of a size sufficient to
9 accommodate the entire container. Welded attachments to pads may be made
10 after post-weld heat treatment. An implement of husbandry does not require
11 post-weld heat treatment if the implement is fabricated with hot formed heads or
12 with cold formed heads that have been stress relieved.

13 4. (5.2.2.2) Steels used in fabricating pressure containing parts of a container may
14 not exceed a specified tensile strength of ~~seventy-five~~ seventy thousand pounds
15 per square inch [~~547440~~ 482636 kilopascals], as noted in the American society of
16 mechanical engineers code, section II, part D, except that this does not apply to
17 sections 8, 9, and 10. ~~Allowances for tensile strength of up to twenty thousand~~
18 ~~pounds per square inch [137900 kilopascals] above those given in the American~~
19 ~~society of mechanical engineers code, section II, part D, are permitted.~~ An
20 implement of husbandry may be fabricated from steel having a specified tensile
21 strength of seventy-five thousand pounds per square inch [517110 kilopascals].

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

24 **Reinstalled and secondhand anhydrous ammonia storage containers -**
25 **Requirement.**

- 26 1. Before anhydrous ammonia may be stored in a reinstalled or secondhand
27 container, including a nurse tank, the person intending to store the anhydrous
28 ammonia shall furnish the chief boiler inspector with:
- 29 a. Evidence that the container is registered with the national board of boiler and
30 pressure vessel inspectors; or
- 31 b. The manufacturer's data report for the container.

1 2. Subsection 1 is not applicable to the owner of an anhydrous ammonia storage
2 container installed in this state before November 1, 1987, unless the storage
3 container is reinstalled at another location.

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

6 **19-20.2-08.2. Prohibitions.** The following action is prohibited:

- 7 1. Filling a nurse tank directly from a rail car.
- 8 2. Filling or using a nurse tank that has an outdated hose.
- 9 3. Filling or using a nurse tank that has outdated relief valves.
- 10 4. Towing more than two nurse tanks on a public road.
- 11 5. Filling department of transportation transport containers not ~~currently certified by~~
12 meeting the requirements of the department of transportation.
- 13 6. Filling anhydrous ammonia storage ~~tanks~~ containers not meeting the requirements
14 of this chapter.

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

17 **Anhydrous ammonia - Bulk delivery.** Upon obtaining a commercial driver's license
18 with an endorsement for hazardous materials, a person may transport anhydrous ammonia in a
19 bulk delivery vehicle and may fill, from the bulk delivery vehicle, nurse tanks with anhydrous
20 ammonia.

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

23 **Hydrostatic test procedures.** Any hydrostatic test conducted under section
24 19-20.2-05 must comply with the requirements of the national board inspection code
25 (ANSI-NB 23) and be conducted in a manner approved by the chief boiler inspector.

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

28 **Wet fluorescent magnetic particle test procedures.** Any wet fluorescent magnetic
29 particle test of a pressure vessel weld conducted under section 19-20.2-05 must comply with
30 the requirements of the society for nondestructive testing SNT-TC-1A standard and must be
31 conducted by a person certified as a level II technician by the society.