

**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

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

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

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

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

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

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

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

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

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 Filling or using a nurse tank that has an outdated hose.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 Filling or using a nurse tank that has outdated relief valves.

4. Towing more than two nurse tanks on a public road.

~~5. Filling department of transportation transport containers not currently certified by  
the department of transportation.~~

~~6. Filling anhydrous ammonia storage tanks not meeting the requirements of this  
chapter.~~

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

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

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

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