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1	Department of Public Service
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3	Adopted Permanent Rules Governing Weights and Measures
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5	Rules as Adopted
6	7601.0100 DEFINITIONS.
7	Subpart 1. Scope. The terms used in this chapter have the
8	meanings given them in this part.
9	Subp. 2. Animal scale and livestock scale. "Animal scale"
10	and "livestock scale" mean platform scales designed and used to
11	weigh livestock. An animal scale is used to weigh a single
12	animal. A livestock scale is used to weigh several animals.
13	Both have an enclosure and gates built on the scale platform.
14	Subp. 3. Commercial; commercial use; commercial purpose.
15	"Commercial," "commercial use," and "commercial purpose" refer
16	to weights and measures used or located on premises where they
17	could be used to:
18	A. determine the weight, measure, or count of
19	commodities or things sold, offered, or exposed for sale, on the
20	basis of weight, measure, or count; and or
21	B. compute the basic charge or payment for services
22	rendered on the basis of weight, measure, or count.
23	Subp. 4. Commissioner. "Commissioner" means the
24	commissioner of the Department of Public Service.
25	Subp. 5. Department. "Department" means the Department of
26	Public Service.
27	Subp. 6. Director. "Director" means the director of the
28	Weights and Measures Division of the Department of Public
29	Service.
30	Subp. 7. Division. "Division" means the Weights and
3,1	Measures Division of the Department of Public Service, and
32	employees of the Weights and Measures Division having statutory
33	authority delegated by the director.
34	Subp. 8. Hopper scale. "Hopper scale" means a scale
35	designed and used to weigh bulk commodities in a container,

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1 hopper, box, or tank mounted on the scale.

Subp. 9. Minimum division. "Minimum division" means the value of the smallest subdivision or unit that a scale, meter, or other weighing or measuring device is designed to indicate or display.

6 Subp. 10. Minnesota seal. "Minnesota seal" means a 7 security seal placed on commercial weighing and measuring 8 equipment by the division to prevent unauthorized adjustment of 9 the equipment.

Subp. 11. National Institute of Standards and Technology
(NIST). "National Institute of Standards and Technology" and
"NIST" mean the United States Department of Commerce, National
Institute of Standards and Technology.

Subp. 12. National Type Evaluation Program (NTEP).
"National Type Evaluation Program" and "NTEP" mean a program of
weighing and measuring device evaluation and certification
operated by the United States Department of Commerce, National
Institute of Standards and Technology.

19 Subp. 13. Place in service. "Place in service" means to 20 authorize commercial use of newly installed or repaired weighing 21 and measuring equipment pending an inspection by the division. 22 This type of authorization may only be performed by a registered 23 person.

Subp. 14. Railroad track scale. "Railroad track scale" means a scale of appropriate capacity and design that is used to weigh a rail car.

Subp. 15. Registered person, registrant. "Registered person" and "registrant" mean a person who has voluntarily registered with the division and who installs, services, repairs, or reconditions weighing and measuring equipment.

31 Subp. 16. Registration certificate. "Registration 32 certificate" means an annual certificate issued by the division 33 to a person who voluntarily registers with the division and who 34 installs, adjusts, services, repairs, or reconditions commercial 35 weighing and measuring equipment.

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Subp. 17. Scale division. "Scale division" means the

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value, in units of mass, of the smallest subdivision or unit
 that can be indicated by a scale.

3 Subp. 18. Sensitivity requirement. "Sensitivity requirement" means a performance requirement for a scale 4 equipped with a nonautomatic indicator. It is a prescribed 5 change in the rest position of the indicator, caused by a 6 prescribed change in load on the scale. The requirement is 7 8 stated in terms of scale divisions. For example, a load equivalent to two divisions must cause the prescribed change in 9 10 the rest position of the indicator.

11 Subp. 19. Soil bearing. "Soil bearing" refers to the 12 load, in units of mass per area, that can be placed upon soil 13 without causing deformation, settling, or soil failure.

14 Subp. 20. Vehicle scale. "Vehicle scale" means a platform 15 scale designed and used to weigh trucks, farm equipment, or 16 other large industrial or highway vehicles in one draft or 17 weighing operation.

Subp. 21. Weighing and measuring equipment. "Weighing and measuring equipment" means all weights and measures of every kind, all instruments and devices for weighing and measuring, and any appliances and accessories associated with those instruments and devices, which are used, or located on premises where they could be used, to:

A. determine the weight, measure, or count of commodities or things sold, offered, or exposed for sale on the basis of weight, measure, or count; or

27 B. compute the basic service charge or payment for 28 services rendered on the basis of weight, measure, or count.

29 7601.0200 VARIANCES.

30 Subpart 1. Director to grant. If a variance is requested 31 in a manner prescribed by subpart 2 and if the approval criteria 32 in subpart 3 are met, the director shall grant a variance to any 33 part of this chapter, except a rule that specifies a tolerance 34 or the value of a minimum division.

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Subp. 2. Request. An owner or operator of commercial

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1 weighing and measuring equipment may apply to the director for a variance to any part of this chapter. The request must be in 2 writing and must: 3 explain why a variance is needed; 4 Α.

explain the proposed alternative to the rule; and 5 в. include drawings if the request is for a railroad 6 с. track, vehicle, or livestock scale. The drawings must 7 illustrate the design, construction, and location of the scale. 8 Subp. 3. Approval criteria. The director shall grant a 9 variance when appropriate to maintain good commercial practices 10 or when enforcement of the fules would cause undue hardship. 11 The director shall consider the following criteria in evaluating 12 a request for a variance: 13

A. good commercial practices are maintained when the 14 director is able to determine that under normal operating 15 conditions the weighing and measuring equipment will remain 16 accurate and reliable and the variance will not harm the owner 17 or operator or their customers; and 18

B. undue hardship exists when the applicant 19 20 demonstrates that:

(1) it is impossible or economically unfeasible 21 22 for the applicant to comply with the rule; and

(2) the burden of compliance to the applicant 23 outweighs any adverse effect on the applicant's customers or 24 others affected by the rule. 25

Subp. 4. Refusal to grant. The director shall refuse to 26 grant a variance if the request does not meet the requirements 27 of subpart 2, or if the director determines that the criteria 28 for approval in subpart 3 have not been met. 29

30 Subp. 5. Response by division to request. All requests will be answered by the division in writing, setting forth the 31 reasons for granting or refusing to grant the requested variance. 32 UNIFORM NATIONAL CODES 33

7601.1000 NIST HANDBOOK 44 INCORPORATED BY REFERENCE. 34 Subpart 1. NIST Handbook 44 (1994) (1995). Weighing and 35

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1 measuring equipment manufactured, offered, or exposed for sale or sold or given away for use in trade or commerce in Minnesota 2 must conform to the requirements and specifications of NIST 3 4 Handbook 44. NIST Handbook 44 (1994) (1995), "Specifications, Tolerances, and Other Technical Requirements for Weighing and 5 Measuring Devices," as adopted by the 77th 79th National 6 Conference on Weights and Measures and published by the United 7 States Department of Commerce, National Institute of Standards 8 and Technology, (Washington, D.C., October 1993 1994), is 9 incorporated by reference subject to the following exceptions: 10 If NIST Handbook 44 (1994) (1995) contains any 11 Α.

12 provisions contrary to the laws of Minnesota, or contrary to any 13 rule, except part 7601.1000, of the Minnesota Department of 14 Public Service, Minnesota law and department rules govern and 15 supersede contrary provisions of NIST Handbook 44.

B. The final sentence of NIST Handbook 44 (1994) (1995), section 2 (scale code), specification S.1.8.3., is deleted.

The director shall not enforce specifications and 19 C. user requirements in NIST Handbook 44 (1994) (1995) that would 20 require owners of motor fuel dispensers to install equipment 21 capable of allowing the customer to select the unit price. 22 23 These requirements are contained in section 3.30 (liquid measuring devices), specification S.1.6.4.1., specification 24 S.1.6.5., specification S.1.6.5.4., and user requirement UR.3.3. 25 The user requirement UR.2.2, in section 3.31 of 26 D. NIST Handbook 44 (1995) shall not apply so as to require a 27

28 ticket printer on vehicle tank meters.

Subp. 2. Location. NIST Handbook 44 is available to the public at the Minnesota State Law Library, Minnesota Judicial Center, 25 Constitution Avenue, Saint Paul, Minnesota, 55155, and is not subject to frequent change.

33 7601.1010 NIST HANDBOOK 44; COMPLIANCE REQUIRED.

34 Subpart 1. Compliance. A person who owns or operates 35 weighing or measuring equipment for commercial purposes in

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1 Minnesota must use weighing and measuring equipment that meets all applicable requirements in NIST Handbook 44 as adopted under 2 3 part 7601.1000. Only the director, or a department employee 4 delegated by the director, shall determine the applicability of, 5 and compliance with, the requirements of NIST Handbook 44. 6 Subp. 2. NTEP Certification. A person who sells, installs, owns, or operates commercial weighing or measuring 7 equipment manufactured after January 1, 1996, must sell, 8 install, or use only weighing or measuring equipment of a make, 9 model, and type for which a | "Certificate of Conformance" has 10 been issued by the United States Department of Commerce, 11 National Institute of Standards and Technology, Office of 12 13 Weights and Measures.

14 7601.1020 NIST HANDBOOK 133 INCORPORATED BY REFERENCE.

15 Subpart 1. NIST Handbook 133. NIST Handbook 133 (September, 1988), "Checking the Net Contents of Packaged 16 Goods," with additions and amendments to it published in 17 supplements issued through ϕ ctober, 1992, as adopted by the 77th 18 National Conference on Weights and Measures and published by the 19 20 United States Department of Commerce, National Institute of Standards and Technology, (Washington, D.C., October 1992), is 21 22 incorporated by reference. If NIST Handbook 133 and its supplements contain any provision contrary to the laws of 23 Minnesota, the rules of the Minnesota Department of Public 24 Service, or the packaging or labeling rules of the Minnesota 25 Department of Agriculture, Minnesota laws and rules govern and 26 supersede contrary provisions of NIST Handbook 133 and its 27 supplements. 28

Subp. 2. Location. NIST Handbook 133 and supplements are
available to the public at the Minnesota State Law Library,
Minnesota Judicial Center, 25 Constitution Avenue, Saint Paul,
Minnesota, 55155, and are not subject to frequent change.
REQUIREMENTS FOR SCALES, GENERALLY

34 7601.2000 PROTECTION FROM ENVIRONMENT.

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Subpart 1. Outdoor scales. The director shall require

[REVISOR] RR/MP AR2486 11/06/95 special protection from the environment for an outdoor scale if 1 the division finds that the scale is adversely affected by 2 weather or other environmental factors. Environmental 3 4 protection includes: belting or other suitable material to cover the 5 Α. clearance around a scale platform; 6 7 Β. wind skirts, wind walls, or effective foundation heating for above-ground scales; 8 C. an improved drainage system or sump pump for 9 pit-type scales; 10 D. special shielding or weatherproofing of a scale 11 12 indicator; 13 Ε. a complete building to protect a scale from the 14 weather; and 15 F. modifications, shielding, and other special measures to protect an electronic scale from radio frequency 16 interference and electromagnetic interference. 17 Subp. 2. Fertilizer scales. A hopper, tank, or mixer 18 19 scale used for weighing dry or liquid bulk fertilizer must be completely enclosed in a building. 20 21 7601.2010 SENSITIVITY REQUIREMENT. For a scale not equipped with a balance indicator, but with 22 23 a minimum graduated interval less than ten pounds, the sensitivity requirement is three times the value of the minimum 24 graduated interval or 15 pounds, whichever is less. 25 RAILROAD TRACK SCALES 26 7601.3000 RAILROAD TRACK SCALES; PLANS. 27 Subpart 1. Manufacturer's plans. Before installing a 28 railroad track scale, the scale manufacturer shall furnish 29 complete design, assembly, and construction plans to the 30 31 purchaser. Subp. 2. Installer's plans. The scale purchaser shall 32 furnish installation plans |to the director. The plans must show 33 the scale location, the foundation drawings, and all 34 commodity-handling equipment that could affect the operation of 35

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the scale. The plans must also include the information on soil
 bearing required by part 7601.3020, subpart 1.

3 7601.3010 RAILROAD TRACK SCALE PERMITS.

4 The director shall issue a permit to install a railroad 5 track scale if plans for installing the scale are submitted 6 according to part 7601.3000, and if the planned scale 7 installation meets the requirements of parts 7601.3020 and 8 7601.3030. The director shall review and approve the plans 9 before issuing a permit. A railroad track scale must not be 10 installed without a permit.

11 7601.3015 APPLICATION.

12 The requirements in parts 7601.3020 and 7601.3030 apply 13 only to railroad track scales that will be used to weigh 14 individual, stationary rail cars, and do not apply to railroad 15 track scales that will be used to weigh rail cars in motion.

16 7601.3020 RAILROAD TRACK SCALE FOUNDATION.

Subpart 1. Soil bearing. The owner, operator, or 17 installer of a railroad track scale shall complete a soil 18 bearing test, performed by a registered engineer, before 19 constructing the scale foundation. The soil bearing test must 20 determine the load-bearing ¢apacity of the soil that will lie 21 under the completed scale foundation. The engineer's report, 22 including a statement that the soil bearing is suitable for the 23 scale to be installed, must be submitted to the director before 24 constructing the scale foundation. The director shall review 25 and approve the report before issuing a permit for a scale 26 27 installation.

Subp. 2. Materials and construction. Foundation walls, floors, footings, and weighing element support piers must be constructed of reinforced, poured concrete that conforms to the scale manufacturer's design requirements and drawings. The concrete must be uniform and continuous. Reinforcing material in the piers and walls must be securely tied to the reinforcing material in the adjacent walls and floor.

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Subp. 3. Dimensions. The foundation must be deep enough 1 to provide a finished pit seven feet deep, measured from the top 2 of the finished foundation wall to the top surface of the 3 finished pit floor. 4 Subp. 4. Length. For a railroad track scale installed 5 after January 1, 1995, the length or combination of lengths of 6 the weighing element or elements must be sufficient to allow 7 single draft weighing. 8 7601.3030 APPROACH RAILS AND PIERS. 9 Subpart 1. Approach rails. A railroad track scale must be 10 installed with approach rails at the end of the scale. The 11 approach rails must be at least 50 feet long and must be 12 parallel to the scale rails in both the horizontal and vertical 13 14 planes. 15 Subp. 2. Approach panels. A reinforced concrete approach panel must be installed at each end of the scale. The panels 16 17 must: 18 A. be level; extend 25 feet from the scale foundation end 19 в. 20 walls; and C. be-formed-independently-of-the-end-walls,-and-rest 21 on-extensions-of-the-end-walls-or-on-the-scale-foundation 22 footings;-and 23 $\mathbf{D}_{\mathbf{r}}$ be designed to maintain a permanent and level 24 approach to the scale. 25 VEHICLE AND LIVESTOCK SCALES 26 7601.4000 VEHICLE AND LIVESTOCK SCALES; PLANS. 27 Subpart 1. Scales installed by buyer. For a vehicle or 28 29 livestock scale needing assembly or foundation construction by the scale buyer, the manufacturer shall provide to the buyer 30 31 complete plans, drawings, and instructions for assembling and installing the scale and for building the foundation. 32 The 33 director may require a scale buyer to submit plans to the division before construction. 34 Subp. 2. Above-ground vehicle and livestock scales. The 35

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1 owner, operator, or installer of an above-ground vehicle or
2 livestock scale shall submit complete plans and drawings of the
3 scale and foundation to the director before installing the
4 scale. The drawings must show the finished grade level of the
5 area that will surround the scale site. The director shall
6 review and approve the drawings, and must respond in writing to
7 the scale owner or operator.

Subp. 3. Floating concrete slab foundation. The owner, 8 operator, or installer of an above-ground vehicle or livestock 9 scale to be installed on a floating concrete slab foundation 10 shall comply with subpart 2 and shall complete a soil bearing 11 test, performed by a registered engineer, before constructing 12 the scale foundation. The soil bearing test must determine the 13 load-bearing capacity of the soil that will lie under the 14 completed scale foundation. The engineer's report, including a 15 statement that the soil bearing is suitable for the scale to be 16 installed, must be submitted to the director before constructing 17 the scale foundation. The director shall review and approve the 18 report and respond in writing to the owner or operator. 19

20 7601.4010 VEHICLE AND LIVESTOCK SCALE FOUNDATIONS.

21 Subpart 1. Generally. Vehicle and livestock scales installed after December 31, 1985, must be installed on a 22 reinforced, poured, concrete foundation. Scales may be 23 installed in a concrete pit, according to subpart 2, or above 24 grade level according to subpart 3 or 4. The foundation must be 25 designed to support the weight of the scale and the anticipated 26 27 maximum load on the scale without significant settling or cracking. Weighing element stands or bases must be securely 28 \$pace between a stand or base and the 29 bolted to the foundation. foundation must be filled with nonshrinking grout. 30

31 Subp. 2. Pit-type scale foundation. A pit-type vehicle or 32 livestock scale foundation must meet the following requirements: 33 A. the walls, floors, footings, and weighing element 34 support piers must be reinforced, poured concrete; 35 B. the clearance between the bottom of the

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[REVISOR] RR/MP 11/06/95 AR2486 weighbridge or other main structural member and the surface of 1 the pit floor must be at least 48 inches; 2 3 C. for outdoor scales, the pit floor must have an 4 effective drain system so that the pit floor remains reasonably dry and clean; 5 D. for outdoor scales, the tops of the pit walls must 6 be above the existing grade level so that water will drain away 7 from the scale; and 8 for outdoor scales, the foundation must extend 9 Ε. below the local frost line. 10 Subp. 3. Above-ground scale; concrete pier foundation. 11 An above-ground vehicle or livestock scale foundation must meet the 12 following requirements: 13 the weighing elements must be supported on 14 Α. reinforced concrete foundation piers; 15 concreté surface slabs must be poured 16 Β. 17 independently between the main foundation piers; the end piers of the foundation must have end 18 с. 19 walls to prevent fill material from interfering with scale operation; 20 where foundation construction techniques allow, 21 D. 22 the surfaces of the concrete slabs between the foundation piers must be sloped down from the longitudinal centerline to each 23 side to prevent dirt accumulation under the platform; 24 25 Ε. the clearance between the bottom of the weighbridge or other main structural member and the slab surface 26 must be at least six inches for vehicle scales and at least 12 27 inches for livestock scales; 28 the scale platform, structural members, foundation 29 F. 30 surfaces, and surrounding area must be designed to allow access for cleaning under the scale platform and around all weighing 31 32 elements; for outdoor scales, the tops of the piers and the 33 G. surfaces of the slab or slabs between the piers must be above 34 the existing grade level so that water will drain away from the 35 36 scale;

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H. the vertical surfaces of the end walls and the
 horizontal surfaces of the end piers must have hooks or other
 devices to allow installation of surface-mounted heating cables;
 and

5 I. the piers must extend below the local frost line. 6 Subp. 4. Above-ground scale; floating concrete slab 7 foundation. An above-ground vehicle or livestock scale may be 8 installed on a floating concrete slab foundation. The 9 foundation must meet the following requirements:

10 A. The scale weighing element or elements must be 11 supported on a monolithic, reinforced concrete slab. The entire 12 slab must be at least 12 inches thick, and must conform to the 13 scale manufacturer's installation and reinforcing requirements.

B. The foundation must be constructed on soil that has a uniform natural or engineered soil bearing of at least 16 1,500 pounds per square foot. See part 7601.4000, subpart 3.

17 C. A base of uniform, compacted, permeable aggregate, 18 at least 24 inches deep, must be installed. The concrete slab 19 foundation must be poured on top of this base.

D. The top surface of the foundation slab must be installed above the surrounding grade level so that water will flow away from the foundation and away from the permeable aggregate base that supports the foundation.

24 7601.4020 VEHICLE AND LIVESTOCK SCALE APPROACHES.

Subpart 1. Before January 1, 1986. A vehicle scale installed before January 1, 1986, must have at least 12 feet or a distance equal to one-third of the deck length, whichever is greater, of straight hard surface driveway on either end of the scale not over one-third inch per foot out of level of the platform. The first six feet on both ends must be constructed of reinforced concrete.

32 Subp. 2. After December 31, 1985. For a vehicle or 33 livestock scale installed after December 31, 1985, each end of 34 the scale must have a straight, paved approach that meets the 35 following requirements:

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A. Approaches must be at least as wide as the scale platform and at least ten feet long or one-third of the scale platform length, whichever is greater.

The first ten feet of each approach must be a 4 Β. reinforced concrete approach panel, one end of which rests on an 5 extension of the scale foundation end wall. The remaining 6 length of each approach must be paved with concrete or asphalt. 7 8 Approaches must be sloped down from the scale C. platform. Maximum slope allowed is one-third inch per foot. 9 10 Approaches must not be sloped up from the scale platform. D. For above-ground scales, the foundation end walls 11

12 must have wing wall extensions, or the sides of the approach 13 slopes must be paved, so that fill material cannot fall under 14 the scale platform.

15 7601.4030 ANIMAL AND LIVESTOCK SCALES; PRINTER REQUIRED.

16 An animal or livestock scale must be equipped with a 17 printing device. The printer must be maintained in good working 18 condition so that a clear printed record of each transaction is 19 available to both buyer and seller.

20 7601.4040 ANIMAL AND LIVESTOCK SCALES; TOLERANCES.

Subpart 1. Tolerance. For animal and livestock scales, the basic maintenance tolerance is one pound per 1000 pounds of test load (0.1 percent). The acceptance tolerance is one-half of the basic maintenance tolerance.

Subp. 2. Shift test tolerance. A shift test must be conducted on animal and livestock scales. The maximum test load is one-fourth of the scale capacity. A scale may be approved if the sum of the indicated errors for two load-bearing readings in the same section is within tolerance.

30 "Section" means a part of a vehicle, livestock, or railroad 31 track scale that consists of a pair of main load-bearing 32 supports arranged so that the vertical plane passing through 33 both supports is usually transverse to the direction that the 34 load is applied to the scale platform.

HOPPER SCALES

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7601.5000 HOPPER SCALES. 1 Subpart. 1. Capacity. | For a hopper scale, the load 2 capacity of the hopper must be at least 80 percent of the 3 capacity of the weight indicator. Load capacity must be 4 determined by using the highest density material that will 5 normally be weighed in the hopper. 6 Subp. 2. Dust-control systems. Weighing accuracy of a 7 hopper scale system must not be affected by air flow or by a 8 fluctuation or differential in air pressure caused by a 9 dust-control system. If scale accuracy can be affected by 10 adjusting dampers or flow-control devices in the dust-control 11 12 system, the dampers and devices must be sealed with a Minnesota 13 seal to prevent adjustment. MEASURING LIQUEFIED PETROLEUM GAS 14 7601.6000 TEMPERATURE CORRECTION FOR MEASURING LIQUEFIED 15 PETROLEUM GAS. 16 17 Subpart 1. Requirements. When liquefied petroleum gas is sold or delivered to a consumer as a liquid and by liquid 18 measurement, the volume of liquid sold and delivered must be 19 corrected to a temperature ϕf 60 degrees Fahrenheit through the 20 use of the volume correction table, shown in part 7601.9900, and 21 calculated under subpart 2, or through use of an approved meter 22 with a sealed automatic compensating mechanism. A sale ticket 23 must show the delivered gallons, the temperature at the time of 24 delivery, and the corrected gallonage, or must state that 25 temperature correction was automatically made. 26 27 This part does not apply to unit sales or deliveries made directly to mobile fuel tanks with a capacity of less than 100 28 29 gallons. Subp. 2. Calculation. To convert from measured volume at 30 another temperature to net volume at 60 degrees Fahrenheit: 31

32 measure the volume and temperature, determine the specific 33 gravity at 60 degrees Fahrenheit, refer to the column in the 34 volume conversion table, set forth in part 7601.9900, 35 corresponding to the specific gravity, and read the volume

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conversion factor opposite the observed temperature. Multiply 1 the observed volume by this factor to obtain the volume at 60 2 3 degrees Fahrenheit. VOLUNTARY PLACING IN SERVICE PROGRAM 4 7601.7000 PLACING IN SERVICE PROGRAM; PURPOSE AND POLICY. 5 Subpart 1. Registered persons. The director shall offer a 6 voluntary registration program for persons who install, adjust, 7 repair, service, or test commercial weighing and measuring 8 equipment. The purposes of the program are to: 9 10 Α. allow privately employed individuals to place newly installed or repaired weighing and measuring equipment 11 12 into commercial service, pending an inspection by the division; and 13 minimize the compliance burden on owners and 14 в. 15 operators of weighing and measuring equipment by simplifying installation and repair and by reducing the amount of time the 16 17 equipment is out of service. Subp. 2. Nonregistered persons. A nonregistered person is 18

not prohibited from repairing commercial weighing and measuring 19 20 equipment. However, Minnesota Statutes, chapter 239, prohibits commercial use of equipment that has been repaired by a 21 nonregistered person until the equipment has been approved by 22 the division. 23

7601.7010 VOLUNTARY REGISTRATION. 24

Subpart 1. Placing in service registration. The director 25 will accept applications for voluntary registration in the 26 placing in service program, and will issue annual registration 27 certificates to qualified persons. 28

Subp. 2. Application for voluntary registration. 29 An applicant shall provide the following information on an 30 application form provided by the division: 31

32 the applicant's name, business name, business A. 33 address, and business telephone number;

34 the applicant's social security number and в. 35 Minnesota tax identification number;

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C. evidence that the applicant has the required test equipment available for use, and has met the equipment calibration requirements in part 7601.7080; and

D. the category of weighing and measuring equipment that the applicant will service.

6 7601.7020 CERTIFICATE OF REGISTRATION.

7 The director shall issue a registration certificate to an 8 applicant who meets the requirements of this part. The certificate authorizes the applicant to exercise the privileges 9 in part 7601.7050 and to fulfill the responsibilities in part 10 7601.7060 for a category of commercial weighing and measuring 11 equipment specified by the director. The certificate remains in 12 13 effect for 12 months following the date of issue, or until it is returned by the registrant ϕr revoked by the director. 14 The director shall issue a certificate to an applicant who has: 15 fulfilled the application requirements in part 16 Α.

17 7601.7010 or the reciprocity requirements in part 7601.7040; 18 B. met the standards and test equipment requirements 19 in part 7601.7080;

20 C. attended a placing in service training seminar 21 offered by the division to all new applicants, except that a 22 registrant who renews a registration certificate is not required 23 to attend annually; and

D. completed and passed a written examination to demonstrate the applicant's understanding of the appropriate requirements in department rules, including NIST Handbook 44.

27 7601.7030 REGISTRATION FEE.

The division shall charge an annual fee for each registration certificate issued, as set by part 7602.0100. It must include the costs of administering the placing in service program and calibrating the registrant's standards and test equipment.

33 7601.7040 RECIPROCITY.

34

The director may issue a registration certificate to a

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[REVISOR] RR/MP 11/06/95 AR2486 1 person who is registered in a placing in service program in another state. The person is required to: 2 A. meet the application requirements in part 3 4 7601.7010; provide evidence of registration in another state; 5 в. provide evidence that the standards and test 6 c. equipment requirements in part 7601.7080 have been met; 7 attend a placing in service training seminar 8 D. offered by the division to all new applicants, except that a 9 registrant who renews a registration certificate is not required 10 to attend annually; and 11 E. complete and pass a written examination to 12 demonstrate the applicant's understanding of the appropriate 13 requirements in department rules, including NIST Handbook 44. 14 7601.7050 PRIVILEGES OF VOLUNTARY REGISTRANT. 15 A registrant may: 16 remove an official rejection tag placed on 17 Α. weighing and measuring equipment by the division; 18 remove a Minnesota security seal installed on 19 в. 20 weighing and measuring equipment by the division; repair and place in service weighing and measuring 21 c. equipment rejected by the division; and 22 place in service new or newly installed weighing D. 23 and measuring equipment. 24 7601.7060 RESPONSIBILITIES OF VOLUNTARY REGISTRANT. 25 Subpart 1. Performance. A registrant shall: 26 ensure that all equipment placed in service 27 Α. complies with this chapter, including NIST Handbook 44; 28 29 в. personally perform or observe all installation, service, adjustment, repair, and testing of weighing and 30 measuring equipment placed in service; and 31 use only standards and test equipment that meet с. 32 the requirements of part 7601.7080. 33 Subp. 2. Placing in service required. A registrant shall 34 place in service all commercial weighing and measuring equipment 35

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11/06/95 [REVISOR] RR/MP AR2486 when the registrant, or a petson under the direct supervision 1 and observation of the registrant, has: 2 3 Α. installed the equipment; repaired the equipment, following official 4 в. rejection by the division; or 5 removed a Minnesota security seal from the 6 с. equipment. 7 8 Subp. 3. Reporting. When work authorized in part 7601.7050 is performed, a registrant shall: 9 fill out a placed in service report form; 10 Α. carefully follow the instructions on the form and в. 11 provide all of the required information in legible handwriting 12 or typewriting; 13 submit the original form to the division within 14 с. five days after completing the work; 15 submit a copy of the form to the owner or operator 16 D. of the equipment when the work is completed; and 17 E. retain a copy of the form. 18 Subp. 4. Security seals. When a registrant removes a 19 security seal from the adjusting or calibrating mechanism of a 20 weighing or measuring device, the registrant shall: 21 install a new security seal in a manner that will 22 Α. ensure that the device cannot be adjusted without removing or 23 defacing the security seal; and 24 imprint the seal with the registrant's placing in 25 в. service registration number 26 7601.7070 PLACED IN SERVICE REPORT. 27 Upon request from a registrant, the director shall provide 28 a supply of placed in service report forms to the registrant. 29 7601.7080 STANDARDS AND TESTING EQUIPMENT. 30 Subpart 1. Required equipment list. The director shall 31 publish a list of the standards and test equipment required for 32 registration in each category of weighing and measuring 33 equipment service. 34 Subp. 2. Annual calibration required. A registrant shall 35

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1 annually submit the required standards and test equipment for
2 inspection, testing, and calibration by the division's metrology
3 laboratory, by the federal government, or by a NIST-certified
4 metrology laboratory operated by an agency of another state
5 government.

6 7601.7090 PROBLEM RESOLUTION SYSTEM; CERTIFICATE OF REGISTRATION.
7 Subpart 1. Director may inspect. The director may, at any
8 time, inspect the work performed by a registrant. The director
9 shall use these inspections to determine whether the registrant
10 is performing repairs in compliance with Minnesota Statutes and
11 department rules.

12 Subp. 2. Problem resolution system, list of violations. Each of the following acts are considered a violation of 13 department rules. When the director finds that a registrant has 14 committed one or more of the following violations, the director 15 shall impose an appropriate remedial action described in 16 17 subparts 3 to 7. The conditions for determining the appropriate remedial action are included with each remedial action in 18 19 subparts 3 to 7. Violations include:

A. failing to submit a placing in service report for commercial weighing or measuring equipment that the registrant has installed, adjusted, or repaired;

B. submitting a placing in service report that is
incomplete or that contains inaccurate information;

25 C. placing in service any weighing or measuring 26 equipment without performing a test utilizing the test equipment 27 required by the director under part 7601.7080;

D. placing in service any weighing or measuring equipment that does not meet the specifications, tolerances, and other requirements of department rules, including the requirements of NIST Handbook 44;

E. placing in service any weighing and measuring and measuring equipment after a registrant's certificate of registration has expired;

35

F. removing a rejection tag after a registrant's

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1 certificate of registration has expired;

2 G. failing to install a security seal as required by 3 part 7601.7060, subpart 4;

H. incorrectly installing a security seal so that it
is possible to adjust the accuracy or change the calibration of
weighing or measuring equipment without removing, damaging, or
defacing the security seal;

8 I. continuing to install, adjust, or repair 9 commercial weighing or measuring equipment after the director 10 has suspended the registration certificate for up to 30 days;

J. continuing to install, adjust, or repair
Commercial weighing or measuring equipment after the director
has suspended the registration certificate for up to 90 days; or

14 K. failing to pay a registration fee or equipment 15 calibration fee more than 90 days after the division has issued 16 an invoice for payment to the registered person.

17 Subp. 3. Additional training. The director shall require 18 a registrant to attend additional training or tutoring offered 19 by the division if the director finds that a registrant has 20 committed any of the violations listed in subpart 2, items A to 21 H.

Subp. 4. Warning letter. The director shall issue a warning letter to a registrant if the director finds that the registrant has committed any of the violations listed in subpart , items A to H. The warning letter must state that the registrant has violated department rules, must specify the violations, and must state that the director may suspend or revoke the registration certificate for continued violations.

29 Subp. 5. 30-day suspension. The director shall suspend a registration certificate for up to 30 days if the director finds 30 that a registrant has committed, on three or more occasions 31 within a 90-day period, any of the violations in subpart 2, 32 items A to H. The director shall inform the registrant in 33 34 writing of the suspension, the reasons for the suspension, and the privileges that must not be exercised while the certificate 35 is under suspension. 36

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Subp. 6. 90-day suspension. The director shall suspend a 1 registration certificate for up to 90 days if the director finds 2 3 that a registrant has committed, on six or more occasions within a 90-day period, any of the violations in subpart 2, items A to 4 H, or if the director finds that a registrant has committed the 5 violation in subpart 2, item I, at any time. The director shall 6 inform the registrant in writing of the suspension, the reasons 7 for the suspension, and the privileges that must not be 8 exercised while the certificate is under suspension. 9

10 Subp. 7. Revocation. The director shall revoke a 11 registration certificate if the director finds that a registrant 12 has committed either of the violations in subpart 2, items J and 13 K. The director shall inform the registrant in writing of the 14 revocation, the reasons for the revocation, and the activities 15 that are prohibited by the revocation.

Subp. 8. Reinstatement. The director shall reinstate a 16 registration certificate that has been revoked if the director 17 receives an application for reinstatement from a person whose 18 registration certificate has been revoked, if the applicant has 19 paid all registration fees and calibration fees required in part 20 7602.0100, and the applicant has met all of the requirements of 21 parts 7601.7010 to 7601.7040. The director must not reinstate a 22 registration certificate that has been under revocation for less 23 than 120 days. 24

25 7601.7100 LISTS OF REGISTERED PERSONS.

The director shall publish, and supply upon request from any interested person, lists of registered service persons.

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1 7601.9900 VOLUME CORRECTION FACTOR TABLE.

VOLUME CORRECTION FACTOR TABLE Specific Gravities at 60°/60°F

					Specili	C GIAVIL	ies at 60°	700°F	1	I		NI
Product									ISO-			N Butane
Temp	0.5000	Propane	0.5400	0.5000	0 5200	0.5400	0.5500	0.5600	Butane 0.5631	0.5700	0.5800	0.5944
degrees F	0.5000	0.5079	0.5100	0.5200	0.5300	0.5400	ction Fac		0.3031	0.3700	0.0000	0.3344
-35	1.140	1.135	1.134	1.128	1.122	1.116	1.112	1.106	1.105	1.101	1.096	1.094
1 1		1.135	1.128	1.120	1.116	1.111	1.106	1.101	1.100	1.096	1.092	1.090
-30 -25	1.134 1.127	1.129	1.121	1.115	1.110	1.105	1.100	1.095	1.094	1.901	1.087	1.085
-25	1.127	1.122	1.114	1.109	1.104	1.099	1.095	1.090	1.089	1.086	1.082	1.080
-15	1.120	1.109	1.107	1.103	1.097	1.093	1.089	1.084	1.083	1.080	1.077	1.075
-10	1.106	1.102	1.100	1.095	1.091	1.087	1.083	1.079	1.079	1.075	1.072	1.071
-10	1.098	1.094	1.094	1.089	1.085	1.081	1.077	1.074	1.073	1.070	1.067	1.066
0	1.092	1.088	1.088	1.084	1.080	1.076	1.073	1.069	1.068	1.066	1.063	1.062
2	1.089	1.086	1.085	1.081	1.077	1.074	1.070	1.067	1.066	1.064	1.061	1.060
4	1.086	1.083	1.082	1.079	1.075	1.071	1.068	1.065	1.064	1.062	1.059	1.058
6	1.084	1.080	1.080	1.076	1.072	1.069	1.065	1.062	1.061	1.059	1.057	1.055
8	1.081	1.078	1.077	1.074	1.070	1.066	1.063	1.060	1.059	1.057	1.055	1.053
10	1.078	1.075	1.074	1.071	1.067	1.064	1.061	1.058	1.057	1.055	1.053	1.051
12	1.075	1.072	1.071	1.068	1.064	1.061	1.059	1.056	1.055	1.053	1.051	1.049
14	1.072	1.070	1.069	1.066	1.062	1.059	1.056	1.053	1.053	1.051	1.049	1.047
16	1.070	1.067	1.068	1.063	1.060	1.056	1.054	1.051	1.050	1.048	1.046	1.045
18	1.067	1.065	1.064	1.061	1.057	1.054	1.051	1.049	1.048	1.046	1.044	1.043
20	1.064	1.063	1.061	1.058	1.054	1.051	1.049	1.046	1.046	1.044	1.042	1.041
22	1.061	1.059	1.058	1.055	1.052	1.049	1.046	1.044	1.044	1.042	1.040	1.039
24	1.058	1.056	1.055	1.052	1.049	1.046	1.044	1.042	1.042	1.044	1.038	1.037
26	1.055	1.053	1.052	1.049	1.047	1.044	1.042	1.039	1.039	1.037	1.036	1.035
28	1.052	1.050	1.049	1.047	1.044	1.041	1.039	1.037	1.037	1.035	1.034 1.032	1.034 1.032
30	1.049	1.047	1.046	1.044	1.041	1.039	1.037	1.035 1.033	1.035 1.032	1.033 1.031	1.032	1.032
32 34	1.046	1.044	1.043	1.041	1.038	1.036	1.035 1.032	1.033	1.032	1.029	1.030	1.030
34	1.043	1.041 1.038	1.040	1.035	1.033	1.031	1.032	1.028	1.028	1.023	1.025	1.025
38	1.035	1.036	1.034	1.032	1.031	1.029	1.027	1.026	1.025	1.025	1.023	1.023
40	1.033	1.032	1.031	1.029	1.028	1.026	1.025	1.024	1.023	1.023	1.021	1.021
40	1.030	1.029	1.028	1.027	1.025	1.024	1.023	1.022	1.021	1.021	1.019	1.019
44	1.027	1.026	1.025	1.023	1.022	1.021	1.020	1.019	1.019	1.018	1.017	1.017
46	1.023	1.022	1.022	1.021	1.020	1.018	1.018	1.017	1.016	1.016	1.015	1.015
48	1.020	1.019	1.019	1.018	1.017	1.016	1.015	1.014	1.014	1.013	1.013	1.013
50	1.017	1.016	1.016	1.015	1.014	1.013	1.013	1.012	1.012	1.011	1.011	1.011
52	1.014	1.013	1.012	1.012	1.011	1.010	1.010	1.009	1.009	1.009	1.009	1.009
54	1.010	1.010	1.009	1.009	1.008	1.008	1.007	1.007	1.007	1.007	1.006	1.006
56	1.007	1.007	1.006	1.006	1.005	1.005	1.005	1.005	1.005	1.005	1.004	1.004
58	1.003	1.003	1.003	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.002
60	1.000		1.000	1.000	1.000			1.000		1.000		
62	0.997	0.997	0.997	0.997	0.997	1) ·	0.997	0.998	0.998	0.998	0.998	0.998
64	0.993	0.993	0.994	0.994	0.994	0.994	0.995	0.995	0.995	0.995	0.996	
66 68	0.990	0.990	0.990	0.990	0.991	0.992	0.992	0.993 0.990	0.993 0.990	0.993 0.990	0.993	0.993
68 70	0.986	0.986	0.987	0.987	0.988 0.985	0.989 0.986	0.990	0.990	0.990	0.990	0.991	0.991
70 72	0.983 0.979	0.983	0.984 0.981	0.984 0.981	0.985	0.986	0.987	0.985	0.986	0.986	0.989	0.985
72	0.979	0.980	0.981	0.961	0.982	0.983	0.982	0.983	0.983	0.984	0.985	0.985
74	0.976	0.978	0.977	0.976	0.980	0.980	0.962	0.980	0.983	0.981	0.983	
78		0.973	0.974	0.973	0.974	0.975	0.977	0.978	0.978	0.979	0.980	
80	0.965	0.967	0.967	0.969	0.971	0.972	0.974	0.975	0.976	0.977	0.978	0.978
82		0.963	0.963	0.966	0.968	0.969	0.971	0.973	0.973	0.974	0.976	
84		0.959	0.960	0.962	0.965	0.966	0.968	0.970	0.971	0.972	0.974	
86		0.954	0.956	0.959	0.951	0.964	0.966	0.967	0.968	0.969	0.971	0.971
88			0.953	0.955	0.958	0.961	0.963	0.965	0.966	0.967	0.969	0.969
90			0.949	0.952	0.955	0.958	0.960	0.962	0.963	0.964	0.967	0.967
92	0.942		0.946	0.949	0.952	0.955	0.957	0.959	0.960	0.962	0.964	
94			0.942	0.946	0.949	0.952	0.954	0.957	0.958	0.962	0.964	
96			0.939	0.942	0,946	0,949		0.954	0.955	0.957	0.960	
98			0.935	0.939	0.943	0.940		0.952	0.953	0.954		
100			0.932		0.940	0.943		0.949	0.950	0.952	1	
105			0.923	0.927	0.931	0.935		0.943	0.943	0.946		
110			0.913		0.923	0.927	1		0.937	0.939		
115	0.897	0.902	0.904	0.909	0.915	0.920	0.925	0.930	0.930	0.933	0.937	0.938

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l	REPEALER.	Minnesota	Rules, p	barts	7600.0100,	7600.0200,
2	7600.0300,	7600.0400,	7600.0	500,	7600.0600,	7600.0700,
3	7600.0800,	7600.0900,	7600.10	00,	7600.1100,	7600.1200,
4	7600.1300,	7600.1400,	7600.1	50 0,	7600.1600,	7600.1700,
5	7600.1800,	7600.1900,	7600.20	000,	7600.2100,	7600.2200,
6	7600.2300,	7600.2400,	7600.2	50 0,	7600.2600,	7600.2700,
7	7600.2800,	7600.2900,	7600.30	00,	7600.3100,	7600.3200,
8	7600.3300,	7600.3400,	7600.35	500,	7600.3600,	7600.3700,
9	7600.3800,	7600.3900,	7600.40)00,	7600.4100,	7600.4200,
10	7600.4300,	7600.4400,	7600.45	500,	7600.4600,	7600.4700,
11	7600.4800,	7600.4900,	7600.50	00,	7600.5100,	7600.5200,
12	7600.5300,	7600.5400,	7600.55	500,	7600.5600,	7600.5700,
13	7600.5800,	7600.5900,	7600.60	00,	7600.6100,	7600.6200,
14	7600.6300,	7600.6400,	7600.65	500,	7600.6600,	7600.6700,
15	7600.6800,	7600.6900,	7600.70	00,	7600.7100,	7600.7200,
16	7600.7210,	7600.7300,	7600.74	100,	7600.7500,	7600.7600,
17	7600.7700,	7600.7750,	7600.78	800,	7600.7900,	7600.8100,
18	7600.8200,	7600.8300,	7600.84	00,	7600.8500,	7600,8600,
19	7600.8700,	7600.8800,	7600.89	00,	7600.9000,	7600.9100,
20	7600.9200,	7600.9300,	7600.94	100,	7600.9500,	7600.9600,
21	7600.9700,	7600.9800,	and 760	0.99	00, are rep	ealed.