

# Rules of **Department of Agriculture**

# Division 90—Weights and Measures Chapter 21—Weighing and Measuring Devices

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## Title 2—DEPARTMENT OF AGRICULTURE

Division 90—Weights and Measures Chapter 21—Weighing and Measuring Devices

## 2 CSR 90-21.010 Registration of Servicemen

PURPOSE: This rule covers guidelines pertaining to the registration of servicemen for commercial weighing devices (formerly listed as Regulation 8).

Editor's Note: The secretary of state has determined that the publication of this rule in its entirety would be unduly cumbersome or expensive. The entire text of the material referenced from a publication of the National Institute of Standards and Technology (NIST) has been filed with the secretary of state. This material may be found at the Office of the Secretary of State or at the headquarters of the agency and is available to any interested person at a cost established by state law.

- (1) For identification purposes in this chapter, the Weights and Measures Division, Missouri Department of Agriculture, in this chapter shall be referred to as a publication of the division.
- (2) It shall be the policy of the division to accept voluntary registration of an individual who provides acceptable evidence that s/he is fully qualified to install, service, repair or recondition a commercial weighing or measuring device; has a thorough working knowledge of all appropriate weights and measures laws, orders and rules; and has possession of, or available for use, weights and measures standards and testing equipment appropriate in design and adequate in amount. This policy in no way shall preclude or limit the right and privilege of any qualified individual or agency not registered with the division to install, service, repair or recondition a commercial weighing or measuring device.
- (3) The term registered serviceman shall be construed to mean any individual who, for hire, award, commission or any other payment of any kind, installs, services, repairs or reconditions a commercial weighing or measuring device and who voluntarily registers him/herself as such with the division.
- (4) The term commercial weighing and measuring device shall be construed to include any weight or measure or weighing or mea-

suring device commercially used or employed in establishing the size, quantity, extent, area or measurement of quantities, things, produce or articles for distribution or consumption, purchased, offered or submitted for sale, hire or award, or in computing any basic charge or payment for services rendered on the basis of weight or measure and also shall include any accessory attached to or used in connection with a commercial weighing or measuring device when that accessory is so designed or installed that its operation affects, or may affect the accuracy of the device.

- (5) The division may enter into an informal reciprocity agreement with any other state or states that has or have similar voluntary registration policies. Under this agreement, the registered servicemen of the states party to the reciprocal agreement are granted full reciprocal authority, including reciprocal recognition of certification of standards and testing equipment, in all states party to the agreement. The division may issue a list of all reciprocal states.
- (6) An individual may apply for voluntary registration to service weighing devices or measuring devices on an application form supplied by the division. The form, duly signed and witnessed, shall include certification by the applicant that the individual is fully qualified to install service, repair or recondition whatever devices for the service of which competence is being registered; has in possession or available for use all necessary testing equipment and standards; and has full knowledge of all appropriate weights and measures laws, orders and rules. An applicant also shall submit appropriate evidence or references as to qualifications and a test based on the NIST Handbook 44, and Missouri law will be administered by the division to further evaluate knowledge. The applicant must possess a current copy of the NIST Handbook 44.
- (7) Upon receipt and acceptance of a properly executed application form, the division shall issue a Certificate of Registration, to the applicant including an assigned registration number, which shall remain effective for two (2) years from date of issue.
- (8) A bearer of a Certificate of Registration shall have the authority to remove an official rejection tag or mark placed by an authorized representative of the Division of Weights and Measures on those weighing or measuring devices for which they have been certified as fully qualified to install, service, repair or

recondition; place in service, until that time an official examination can be made, a weighing or measuring device that has been officially rejected; and placed in service, until that time an official examination can be made, a new or used weighing or measuring device.

- (9) The division shall furnish each registered serviceman with a supply of report forms to be known as Placing in Service Reports. These forms shall be executed in triplicate, shall include the assigned registration number and shall be signed by a registered serviceman for each rejected device restored to service and for each newly installed device placed in service. Within twenty-four (24) hours after a device is restored to service or placed in service, the original of the properly executed Placing in Service Report, a copy of the test report and the rejection tag shall be mailed to the Weights and Measures Department Division. Missouri Agriculture, P.O. Box 630, Jefferson City, MO 65102. The duplicate copy of the report shall be handed to the owner or operator of the devices and the triplicate copy of the report shall be retained by the registered serviceman.
- (10) A registered serviceman shall submit, at least biennially to the division, for examination and certification, any standards and testing equipment that are used or are to be used in the performance of the service and testing functions with respect to weighing and measuring devices for which competence is registered. In servicing commercial weighing or measuring devices, a registered serviceman shall not use any standards or testing equipment that have not been certified by the division. Testing of standards may be waived by the director if proof of calibration is supplied from a reciprocal state or a NIST/National Voluntary Laboratory Accredition Program (NVLAP)-approved industry laboratory.
- (11) The division, for good cause, after careful consideration and investigation, may suspend or revoke a Certificate of Registration.
- (12) The division shall publish from time-to-time as deemed appropriate, and may supply upon request, a list of registered servicemen.
- (13) If any provision of these rules is declared invalid, the validity of the remainder of these rules shall not be affected.



AUTHORITY: section 413.065, RSMo 1994.\*
Original rule filed Dec. 30, 1975, effective Jan. 9, 1976. Amended: Filed Nov. 14, 1977, effective April 13, 1978. Amended: Filed May 17, 1988, effective Aug. 11, 1988. Emergency amendment filed July 27, 1995, effective Aug. 5, 1995, expired Dec. 2, 1995. Amended: Filed July 27, 1995, effective Jan. 30, 1996.

\*Original authority 1983, amended 1993, 1994.



#### STATE OF MISSOURI DEPARTMENT OF AGRICULTURE DIVISION OF WEIGHTS AND MEASURES

# SERVICEMAN REGISTRATION APPLICATION FOR INSTALLATION AND SERVICE OF WEIGHING AND MEASURING DEVICES

DATE	FOR OFFICE USE ONLY		-	_	
	TEST SCORE:	CALIBRATION REI	PORT ON FILE?	YES	□ NO
TYPE OF REGISTRATION:					
SCALES: SMALL CAPACITY	LARGE CAPACITY	MULTI CAPAC	ITY		
☐ LP GAS					
☐ REFINED FUELS					
OTHER (SPECIFY)					
NAME		·····	TELEPHONE		
ADDRESS (STREET, ROUTE)		CITY			
STATE	COUNTY		ZiP		
				<u>:</u>	
EMPLOYED BY			TELEPHONE		
ADDRESS (STREET, ROUTE)		CITY	i		
STATE	COUNTY		ZIP	·	
	COONT		216		
SUMMARY OF TRAINING AND EXPERIENCE			4	•	
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DEVICES QUALIFIED TO SERVICE					
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SUMMARY OF SERVICES TO BE PERFORMED					
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TYPE OF TESTING EQUIPMENT	THE PARTY OF THE P				
DATE OF LAST TEST EQUIPMENT CALIBRATION (COPY OF C	ALIBRATION REPORT MUST BE	ATTACHED)			
		,			
CALIBRATION BY		ADDRESS			
		Abbricas			
REGISTRATION IN OTHER STATES?	YES	□ NO			
IF YES, NAME OF OTHER STATES (ATTACH PROOF OF REGIS					
SEAL IDENTIFICATION NUMBER: (LP GAS/PETROLEUM ONL'	Y)				
MO 350-0474 (6-88)					



, NAME	TELEPHONE				
DORESS	CITY	STATE	ZIP		
AME		TELEPHONE	·		
AME		TELEPHONE			
DRESS	CITY	STATE	ZIP		
ME		TELEPHONE			
DRESS	CITY	STATE	ZIP		
YOU POSSESS OR HAVE A	VAILABLE FOR USE AND REFERENCE	<u> </u>			
NATIONAL BUREAU OF STAN	DARDS HANDBOOK 44?	☐ YES	□ NO		
NATIONAL BUREAU OF STAN	☐ YES	□ NO			
MISSOURI LAW GOVERNING	WEIGHTS AND MEASURES?	☐ YES	□ NO		
NATIONAL FIRE PROTECTION	☐ YES	□ NO			
NATIONAL FIRE PROTECTION	☐ YE\$	□ NO			
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#### MISSOURI DEPARTMENT OF AGRICULTURE DIVISION OF WEIGHTS AND MEASURES P.O. BOX 630, JEFFERSON CITY, MO 65102

#### PLACING IN SERVICE AND/OR REPORT OF SCALE SALE

SHIPPED TO OR PLACED IN SERVICE AT:				COUNTY		TELEPHONE NUMBER	
ADDRESS			CITY			ZIP CODE	
MAKE OF SCALE ACCURACY CLAS		ACCURACY CLASS	MODEL NUMBER	CAPACITY		TYPE OF SCALE	
SERIAL NUMBER(S)		L., -w	<b>i</b>				
SELLER/INSTALLER (AGENCY)			NEW INSTALLATION? ☐ YES ☐ NO	IF YES - NTEP C OF C NUMBER (MUST COMPLETE)			
STREET OR P.O. BOX		CITY			REPAIRED DEVICE? YES NO (REJECTION TAG MUST BE INCLUDED)		
DATE SOLD	DATE REPAIRE		DATE INSTALLED	ESTIMATED DATE OF INSTALL			
This form must be signed by man must be signed by a registered to its official inspection.	nufacturer or represe echnician and by ow	ntative if being completed ner or user of device.	ted only for report of sale. If This will allow the temporary	being completed commerical use	for placing in of the device	service following repair, it described herein, pending	
SIGNED			REGISTRATION NUMBER				
This form must be filled out in tri placing in service. Duplicate to be be accompanied by the rejection ta	given to owner or u	iser of device, and tripl	icate to be retained by the se	vision of Weights ervice company. F	and Measures orms filled ou	within 24 hours of sale or t for repaired devices must	
ATTENTION OWNER OR USER not been certified by either a rebeen done:	t: A repaired or new egistered techniciar	dy installed device ca or the Department of	n only be placed into service of Agriculture is unlawful. Y	ce by a registerer ou should also	d technician. make notatio	Use of a device that has ns that the following has	
☐ The technician installed or repaired and calibrated my scale. ☐ I have been instructed how to properly level and zero my scale. ☐ I have been instructed in the proper use and care of my scale.			NOTICE: FAILURE TO ISSUE THIS REPORT IS A PUNISHABLE OFFENSE UNDER SECTIONS 413.135 AND 413.175 MISSOURI REVISED STATUTES.				
SIGNED, SCALE OWNER OR USER		,	DATE	V. # 100		44-77-6-0-1	
MO 350-0403 (9-88) DISTRIBUTIO	ON: WHITE - DIVISI	ON OF WEIGHTS AND M	EASURES: CANARY - SCALE	OWNER PINK -	SERVICE COM	APANY	

## 2 CSR 90-21.020 Sale and Installation of Scales

(Rescinded April 11, 1985)

AUTHORITY: section 413.335, RSMo 1978. Original rule filed Dec. 30, 1975, effective Jan. 9, 1976. Amended: Filed Nov. 14, 1977, effective April 13, 1978. Rescinded: Filed Jan. 15, 1985, effective April 11, 1985.

#### 2 CSR 90-21.025 Intervals to Inspect and Test Commercial Weighing and Measuring Devices

PURPOSE: This rule sets intervals at which commercial devices will be inspected and tested.

(1) Pursuant to subdivision 7 of section 413.065, RSMo, all commercial devices shall be sealed by the director annually.

AUTHORITY: section 413.065, RSMo 1994.\* Original rule filed Sept. 27, 1995, effective April 30, 1996.

\*Original authority 1983, amended 1993, 1994, 1995.

## 2 CSR 90-21.030 Requirements for Pit Type Scales

PURPOSE: This rule covers installation requirements for pit type scales.

- (1) The minimum pit depth, measured from the bottom of the weighbridge main beams to the floor of the pit, shall be twenty-four inches (24") for load cell or two (2) section levertype vehicle and axle-load scales, thirty-two inches (32") for three (3) or more section lever-type vehicle scales, and forty-eight inches (48") for scales used for weighing livestock.
- (2) The pit floor shall be of concrete sloped to a drain or sump, or both, located in close proximity to the entrance of the pit.
- (3) One (1) opening shall be provided in the scale platform, pit neck covering or pit wall to provide access to the pit, except that two (2) openings shall be provided in the platform for scales with platforms longer than forty feet (40') for axle-load and vehicle scales.
- (4) Openings in the scale platform or pit neck cover shall be either a circle of not less than twenty-four inches (24") in diameter or a

square with at least twenty-two inch (22") sides.

- (5) An entrance through a pit wall shall be a minimum of three feet (3') wide. The top of the opening shall not be lower than the bottom of the main girders and the bottom of the opening shall be approximately even with the floor. The center line of any lever extending through a pit wall opening shall be at least twenty-seven inches (27") from one (1) side of the opening.
- (6) Main load bearing piers shall be of concrete poured to a depth lower than the local frost line. They shall be of monolithic construction with the walls or tied to the walls or floor with reinforcing steel. Steel perimeter coping shall be installed around the inside edge of the top of the pit walls. Adequate provisions shall be included in the pit wall to prevent damage by platform restraint devices.
- (7) Approaches to Pit Type Scales.
- (A) Vehicle Scales. On the entrance and exit ends of a vehicles scale there shall be a straight approach a) the width at least the width of the platform, b) the length at least one-half (1/2) the length of the platform, but not required to be more than forty feet (40') and c) not less than ten feet (10') of any approach adjacent to the platform shall be constructed of concrete or similar durable material to insure that this portion remains smooth and level and in the same plane as the platform. However, grating of sufficient strength to withstand all loads equal to the concentrated load capacity of the scale may be installed in this portion. Any slope in the remaining portion of the approach shall ensure ease of vehicle access, ease for testing purposes, and drainage away from the scale.
- (B) Axle-Load Scales. At each end of an axle-load scale there shall be a straight paved approach in the same plane as the platform. The approaches shall be the same width as the platform and of sufficient length to insure the level positioning of vehicles during weight determinations.
- (C) Livestock Scales. Approaches shall be of reinforced concrete. On at least one (1) entrance there shall be a ten-foot (10') approach at least as wide as the gate with a minimum gate width of four and one-half feet (4 1/2'), accessible for movement of test weights to the scale platform. This approach may be on an incline from the scale platform, but not such that would hamper the movement of test weights onto the scale platform.

- 1. Livestock scales installed prior to July 1, 1998, shall be exempt from the requirements of subsection (7)(C) of this rule.
- (D) Railroad Track Scales. Approach rails must be installed in accordance with the requirements as outlined in the *AAR Scale Handbook*.
- (8) All scale pit walls having traffic adjacent shall be reinforced to withstand traffic pressures
- (9) All scale pits shall have 110-volt alternating current (AC) outlets and permanent lights.
- (10) Mechanical indicators shall be mounted on steel or concrete and made integral with the scale pit.
- (11) If any provision of these rules is declared invalid, the validity of the remainder of these rules shall not be affected.

AUTHORITY: section 413.065, RSMo Supp. 1997.\* Original rule filed Dec. 30, 1975, effective Jan. 9, 1976. Amended: Filed Nov. 14, 1977, effective April 13, 1978. Amended: Filed April 22, 1981, effective Sept. 11, 1981. Amended: Filed Nov. 3, 1997, effective May 30, 1998.

\*Original authority 1983, amended 1993, 1994, 1995.

#### 2 CSR 90-21.040 Portable or Self-Contained Scale Requirements

PURPOSE: This rule covers the installation of portable or self-contained scales for use in semi-permanent locations for less than one hundred eighty days.

- (1) Portable or self-contained scales may be used commercially for weighing soil, lime, gravel, sand, cement, and other building material when installed in accordance with the original scale manufacturer's recommendations.
- (2) Approaches to Portable or Self-Contained Scales.
- (A) Approaches shall be at least the width of the platform, at least one-half (1/2) the length of the platform but not required to be more than forty feet (40') and not less than ten feet (10') of any approach adjacent to the platform shall be constructed to insure that this portion remains smooth and level and in the same plane as the platform. Any slope in the remaining portion of the approach shall

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ensure ease of vehicle access, ease for testing purposes, and drainage away from the scale.

- (3) The indicating element shall be in a weatherproof housing and shall not be openly exposed to the elements. All mechanical indicators shall be mounted on a concrete pier or slab.
- (4) Tolerances shall be as defined in the current edition of *NIST Handbook 44* for commercial weighing devices. All scales represented as complying with this rule shall meet all of the standards specified and all applicable specifications and performance requirements of the current edition *NIST Handbook 44*, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices.
- (5) Sides of the scale are not required to be enclosed unless the scale is located in an area where air currents will affect weighments.
- (6) Requirements of section 413.175, RSMo must be met prior to the actual installation of devices covered in this rule. Following installation, any device covered in this rule must be calibrated and placed in service by a registered Missouri scale serviceman or officially examined by Missouri Weights and Measures Division before the device can be used in commercial service.
- (7) If any provision of these rules is declared invalid, the validity of the remainder of these rules shall not be affected.

AUTHORITY: section 413.065, RSMo Supp. 1997.\* Original rule filed Dec. 30, 1975, effective Jan. 9, 1976. Rescinded: Filed Nov. 14, 1977, effective April 13, 1978. Readopted: Filed April 22, 1981, effective Sept. 11, 1981. Amended: Filed Jan. 15, 1985, effective April 11, 1985. Amended: Filed April 11, 1994, effective Sept. 30, 1994. Amended: Filed Nov. 3, 1997, effective May 30, 1998.

\*Original authority 1983, amended 1993, 1994, 1995.

## 2 CSR 90-21.050 Requirements for Pitless Scales

PURPOSE: This rule covers installation requirements for pitless scales.

(1) This rule shall apply to the installation of vehicle, axle-load and livestock scales of pitless full electronic or mechanical and selfcontained electronic or mechanical design being installed in one (1) permanent location for more than one hundred eighty (180) days.

- (A) A pitless scale may be installed in a pit; however, all pit requirements of 2 CSR 90-21.030 must be met.
- (2) All scales represented as complying with this rule shall meet all of the standards specified and all applicable specifications and performance requirements of the current edition of National Institute of Standards and Technology (NIST) Handbook 44, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices.
- (3) Whenever the provisions of this rule call for the use of reinforced concrete, the concrete shall be of grade and reinforced in the manner consistent with the guidelines established by the American Concrete Institute.
- (4) A suitable foundation must be provided for the scale to rest on. This foundation should meet the following minimum requirements:
- (A) Adequate bearing area to match piers to existing soil bearing capabilities stabilized at the desired grade (elevation) to support at least three thousand (3000) pounds per square foot in pier locations;
- (B) The scale foundations installer shall be responsible for determining whether or not soil characteristics meet the requirements of subsections (4)(A) for a particular design, by employing a penetrometer or plate-bearing test using proper American Society of Testing and Materials (ASTM) guidelines. If soil conditions do not meet those requirements, the installer shall notify the owner; and the owner shall arrange for spread footing design modifications to suit the existing soil conditions;
- (C) The scale may be installed above the ground; however, the installation should be such that surface water will drain away from the scale area; and
- (D) Access to critical scale parts must be provided to permit proper inspection, servicing and cleaning.
- (5) Piers.
- (A) Piers shall be of reinforced concrete poured to the depth of the local frost line but not less than three feet (3').
- (B) All piers must be interlocked by a solid reinforced concrete slab with a minimum thickness of six inches (6"). This slab may be below the top of the piers to promote access

and cleanout; or by reinforced concrete sides with a minimum thickness of twelve inches (12") and the same depth as the piers in which case the horizontal area between the piers will be of concrete with a minimum thickness of three inches (3"), not necessarily tied to the piers or in the same plan, to promote cleanliness.

- (C) Piers must support the combined loads applied by the weight of the scale, the weighbridge, plus the maximum anticipated load on the scale and must distribute these loads evenly over the underlying ground so that any settlement of the structure shall be as little as possible and that settlement shall be uniform throughout the structure.
- (D) Reinforcing should extend the entire width of the piers and be of a minimum schedule consistent with the American Concrete Guidelines.
- (E) Anchor bolts for check stands and load cell stands shall be of the embedded type or thunderstuds if installed in accordance with good engineering practice to assure that those working parts of the scale remain securely anchored during normal and reasonable use of the scale.
- (6) On scales with a mechanical indicating element, the element shall be mounted on a firm foundation which is adequate to prevent deflection or vibration.
- (7) Approaches to Pit Type Scales.
- (A) Vehicle Scales. On the entrance and exit ends of a vehicle scale there shall be a straight approach a) the width at least the width of the platform, b) the length at least one-half (1/2) the length of the platform but not required to be more than forty feet (40'), and c) not less than ten feet (10') of any approach adjacent to the platform shall be constructed of concrete or similar durable material to ensure that this portion remains smooth and level and in the same plane as the platform. However, grating of sufficient strength to withstand all loads equal to the concentrated load capacity of the scale may be installed in this portion. Any slope in the remaining portion of the approach shall ensure ease of vehicle access, ease for testing purposes, and drainage away from the scale.
- (B) Axle-Load Scales. At each end of an axle-load scale there shall be a straight paved approach in the same plane as the platform. The approaches shall be the same width as the platform and of sufficient length to insure the level positioning of vehicles during weight determinations.

- (C) Livestock Scales. Approaches shall be of reinforced concrete. On at least one (1) entrance there shall be a ten-foot (10') approach at least as wide as the gate with a minimum gate width of four and one-half feet (4 1/2'), accessible for movement of test weights to the scale platform. This approach may be on an incline from the scale platform, but not such that would hamper the movement of test weights onto the scale platform.
- 1. Livestock scales installed prior to July 1, 1998, shall be exempt from the requirements of subsection (7)(C) of this rule.
- (D) Railroad Track Scales. Approach rails must be installed in accordance with requirements as outlined in the *AAR Scale Handbook*.
- (8) The lever fulcrum stands or load cell stands shall be so designed, constructed and installed that under any practical conditions of loading, the resultant force through the bearings or load cell(s) will fall within the middle third of the length and width of the base.
- (9) Means shall be provided to restrict motion of the weighbridge or platform, not to exceed one-quarter inch (1/4") in any horizontal direction unless the manufacturer proves this unnecessary for a particular design.
- (10) Electronic, hydraulic and mechanical indicating elements, where used, shall be installed in a location and in a manner to assure continuous accurate performance under all ambient conditions.
- (11) Load cells employed in vehicle scales shall meet the following minimum standards.
- (A) The output characteristics of the load cells shall be such that they will not cause the systems performance to vary beyond allowable tolerances; and
- (B) Each individual load cell shall be capable of withstanding loads equal to one hundred fifty percent (150%) of its rated capacity without change in span calibration. Each load cell support structure shall be capable of withstanding loads equal to three hundred percent (300%) of the rated capacity of the cell without physical failure of the structure.
- (12) All cabling between load cells, junction boxes and electronic instrumentation shall be shielded and grounded as recommended by the original scale manufacturer. The ground shall be a copper clad rod which, whenever possible, shall be driven to a depth of the water table. Connection between the ground

rod and the common ground points of the system shall be made with heavy copper wire of No. 10 gauge or larger. All cables shall be insulated with materials having good nonhygroscopic qualities and stable capacitance between conductors. All cable connections, as well as the cell itself, shall be properly protected against moisture penetration. Load cell cables physically shall be separated from power cables and never shall be run in the same conduit.

- (13) The power source for the electronic instrumentation shall be free from harmonics and electrical noise transients.
- (A) The power source shall be on a separate circuit back to the distribution transformer with no other loads connected, unless it can be demonstrated that the other live loads will not affect the accuracy of the instrumentation.
- (B) One (1) side of the power source should be at ground potential.
- (14) Individual requirements of sections (12) and (13) may be waived if the manufacturer or installer demonstrates other means of providing adequate protection against moisture, radio frequency interference (R.F.I.), lightning and power surges.
- (15) Pitless scales installed prior to April 11, 1985, shall be exempted from the requirements of this rule.
- (16) Requirements of section 413.175, RSMo must be met prior to the actual installation of devices covered in this rule. Following installation, any device covered in this rule must be calibrated and placed in service by a registered Missouri scale serviceman or officially examined by Missouri Weights and Measures Division before the device can be used in commercial service.
- (17) If any provision of these rules is declared invalid, the validity of the remainder of these rules shall not be affected.

AUTHORITY: section 413.065, RSMo Supp. 1997.\* Original rule filed Jan. 15, 1985, effective April 11, 1985. Amended: Filed April 14, 1994, effective Sept. 30, 1994. Amended: Filed Nov. 3, 1997, effective May 30, 1998.

\*Original authority 1983, amended 1993, 1994, 1995.

## 2 CSR 90-21.060 National-Type Evaluation Regulation

PURPOSE: This rule adopts uniform guidelines established by the National Institute of Standards and Technology pertaining to the type evaluation of weighing and measuring devices.

Editor's Note: The secretary of state has determined that the publication of this rule in its entirety would be unduly cumbersome or expensive. The entire text of the material referenced has been filed with the secretary of state. This material may be found at the Office of the Secretary of State or at the head-quarters of the agency and is available to any interested person at a cost established by state law.

- (1) The Division of Weights and Measures shall use the guidelines established by the National Institute of Standards and Technology (NIST) for examining weighing and measuring devices for type evaluation.
- (2) This rule shall apply to all classes of devices and/or equipment as covered in the current editions of *NIST Handbooks 44*, 105-1—105-3.
- (3) For the purpose of this rule the following definitions shall apply:
- (A) National-Type Evaluation Program means a program of cooperation among the National Institute of Standards and Technology, the National Conference on Weights and Measures, the state and the private sector for determining uniform conformance of a type with the relevant provisions of NIST Handbook 44, Specifications, Other **Technical** Tolerances, and Requirements for Weighing and Measuring NIST Handbook Specifications and Tolerances for Reference Standards and Field Standard Weights and Measures, Specifications, and Tolerances for Field Standard Weights (NIST Class F), NIST Handbook 105-2, Specifications and Tolerances for Reference Standards and Field Standard Weights and Measures. Specifications, and Tolerances for Field Standard Measuring Flasks, or NIST Handbook 105-3, Specifications and Tolerances for Reference Standards and Field Standard Weights and Measures. Specifications, and Tolerances for Graduated Neck Type Volumetric Field Standards;
- (B) Type evaluation means the testing, examination, evaluation, or both, of a type by



a participating laboratory under the National-Type Evaluation Program;

- (C) Type means a model(s) of a particular measurement system, instrument, element or a field standard that positively identifies the design. A specific type may vary in its measurement ranges, size, performance and operating characteristics as specified in the certificate of conformance;
- (D) Participating laboratory means any state measurement laboratory that has been certified by the NIST, in accordance with its program for the certification of capability of state measurement laboratories, to conduct a type evaluation under the National-Type Evaluation Program;
- (E) Certificate of conformance means a document issued by the NIST based on testing in participating laboratories and constituting evidence of conformance of a type with the requirements of *NIST Handbooks 44*, 105-1, 105-2 or 105-3; and
- (F) Director means the director of the Department of Agriculture.
- (4) The director may require any weight or measure or any weighing or measuring instrument or device to be issued a certificate of conformance prior to use for commercial or law enforcement purposes.
- (5) The director is authorized to operate a participating laboratory as part of the National-Type Evaluation Program and to charge and collect fees for type evaluation services.

AUTHORITY: section 413.065, RSMo Supp. 1993.\* Original rule filed March 29, 1989, effective June 11, 1989. Amended: Filed Dec. 11, 1991, effective April 9, 1992. Amended: Filed April 14, 1994, effective Sept. 30, 1994.

\*Original authority 1983, amended 1993.