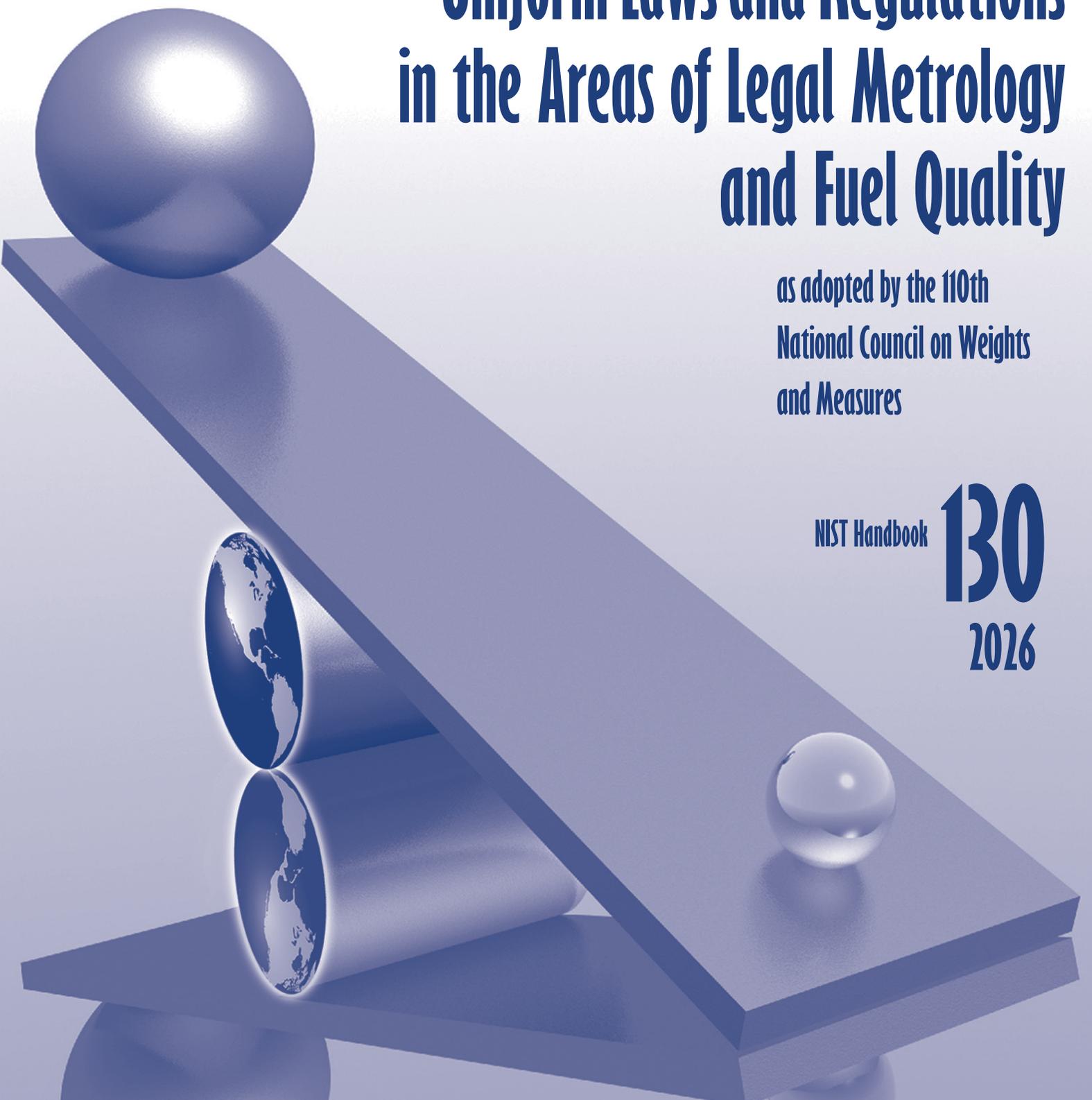




Uniform Laws and Regulations in the Areas of Legal Metrology and Fuel Quality

as adopted by the 110th
National Council on Weights
and Measures

NIST Handbook **30**
2026





**NIST Handbook
NIST HB 130-2026**

**Uniform Laws and Regulations in
the Areas of Legal Metrology and
Fuel Quality**

*as adopted by the
110th National Council on Weights and Measures*

John T. McGuire
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Isabel Chavez Baucom
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This publication is available free of charge from:
<https://doi.org/10.6028/NIST.HB.130-2026>

December 2025



U.S. Department of Commerce
Howard Lutnick, Secretary

National Institute of Standards and Technology
Craig Burkhardt, Acting Under Secretary of Commerce for Standards and Technology and Acting NIST Director

Certain commercial entities, equipment, or materials may be identified in this document to describe an experimental procedure or concept adequately. Such identification is not intended to imply recommendation or endorsement by the National Institute of Standards and Technology (NIST), nor is it intended to imply that the entities, materials, or equipment are necessarily the best available for the purpose.

This handbook promotes the primary use of the International System of Units (SI) by citing SI units before U.S. customary units where both units appear together, and by placing separate sections containing requirements for SI units before corresponding sections containing requirements for customary units. In some cases, however, trade practice is currently restricted to the use of U.S. customary units; therefore, some requirements in this handbook will continue to specify only U.S. customary units until the National Council on Weights and Measures (NCWM) achieves a broad consensus on the permitted metric units.

Marijuana (also referred to as cannabis) remains a Schedule I substance under the Controlled Substances Act. As with all materials, the NIST Office of Weights and Measures (OWM) provides technical analysis and any relevant expertise to help ensure that the standards as developed through the NCWM process are technically sound. As such, NIST publishes the adopted model regulations for cannabis and cannabis-containing commodities by the NCWM in the NIST Handbook 130 as part of NIST's statutory mission to promote uniformity in state laws, regulations, and testing procedures.*

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Publication History

Approved by the NIST Editorial Review Board on 2025-11-17

Supersedes NIST Handbook 130 – 2025 (December 2024) <https://doi.org/10.6028/NIST.HB.130-2025>

How to Cite this NIST Technical Series Publication

McGuire JT, Sefcik DA, Minnich LB, Baucom ICh, and Lippa KA, (2026) Uniform Laws and Regulations in the Areas of Legal Metrology and Fuel Quality. (National Institute of Standards and Technology, Gaithersburg, MD), NIST Handbook (HB) NIST HB 130-2026. <https://doi.org/10.6028/NIST.HB.130-2026>

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* NIST does not have a policy role related to the legalization of the production, sale, distribution, or use of cannabis (including hemp and marijuana).

Abstract

NIST Handbook 130 includes a compilation of model laws and regulations and related interpretations and guidelines designed to encourage uniformity in the adoption and implementation of weights and measures laws and regulations. The model laws and regulations included in NIST Handbook 130 are adopted in various forms by many state, local, and some federal weights and measures authorities. Some authorities adopt the current versions as written; some use them as the basis of adoption, but from an earlier year; some use them as a guideline only; some elect to use their own laws or regulations; and some have no corresponding law or regulation in place.

The National Institute of Standards and Technology (NIST) has a statutory responsibility to promote "cooperation with the states in securing uniformity in weights and measures laws and method of inspection" and publishes this and other NIST Handbooks in partial fulfillment of this responsibility.

This 2026 edition includes amendments made through the Committee on Laws and Regulations of the NCWM with technical guidance from the Office of Weights and Measures (OWM) of NIST and input from weights and measures officials and industry representatives. These amendments were adopted by the NCWM at its 110th Annual Meeting in July 2025.

At the 1983 Annual Meeting, the NCWM voted to change the title of Handbook 130 from "Model State Laws and Regulations" was to be changed to "Uniform Laws and Regulations" to reflect that these Laws and Regulations are (a) intended to be standards rather than just guidelines, and (b) intended for adoption by political subdivisions other than states when deemed appropriate. In 1995 the title was changed to Uniform Laws and Regulations in the areas of legal metrology and motor fuel quality. In the 1997 Edition of Handbook 130 was changed from "Uniform Laws and Regulations the words "motor fuel quality" was changed to "engine fuel quality" to reflect changes made to the Uniform Engine Fuels, Petroleum Products, and Automotive Lubricants Law and Regulation. In 2018, the scope of the Fuels regulation was expanded to encompass the changing fuels in the marketplace, and the title to the Handbook was changed to how it appears today.

Keywords

automotive lubricants; fuels; labeling; laws and regulations; measuring; method of sale; NTEP; packaging; price verification; registration of servicepersons; type evaluation; unit pricing; weighing; weighmaster law; weights and measures law.

Author Contributions

John T. McGuire: Data Curation, Writing - Reviewing and Editing; **David A. Sefcik:** Data Curation, Writing – Reviewing; **Loren Minnich:** Reviewing and Editing; **Isabel Chavez Baucom:** Reviewing and Editing; **Katrice A. Lippa:** Supervision.

Acknowledgments

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I. Introduction

A. Source

The Uniform Laws and Regulations in this handbook comprise all of those adopted by the National Council on Weights and Measures, Inc. (NCWM) at the 2025 Annual Meeting in July. During that meeting, the members of NCWM voted to adopt a corporate name change. Effective August 13, 2024, the National Conference on Weights and Measures (NCWM) became the National Council on Weights and Measures (NCWM). Every effort has been made to incorporate this name change into the NIST Handbooks and other relevant publications. The name “National Conference on Weights and Measures” still appears in areas of NIST handbooks where the content references the name prior to the change to “National Council on Weights & Measures. For more information, please visit the NCWM History page (www.ncwm.com/history).

Contact NCWM at:

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URL: www.ncwm.com

The NCWM is supported by the National Institute of Standards and Technology (NIST), which provides its Executive Secretary and publishes its documents. NIST also develops technical publications for use by weights and measures agencies; these publications may subsequently be endorsed or adopted by the NCWM or its members.

All of the Uniform Laws and Regulations given herein are recommended by NCWM for adoption by states when reviewing or amending their official laws and regulations in the areas covered. A similar recommendation is made with regard to the local jurisdictions within a state in the absence of the promulgation of such laws and regulations at the state level.

(Amended 2015, 2019, and 2024)

B. Purpose

The purpose of these Uniform Laws and Regulations is to achieve, to the maximum extent possible, uniformity in weights and measures laws and regulations among the various states and local jurisdictions in order to facilitate trade between the states, permit fair competition among businesses, and provide uniform and sufficient protection to all consumers in commercial weights and measures practices.

C. Amendments

Proposed amendments to NIST Handbook 130 are deliberated and developed by NCWM’s Committee on Laws and Regulations before presentation to the general membership for vote. In some instances, amendments that significantly affect other NIST Handbooks may be processed jointly by two or more committees.

Amendments to the handbooks are made in accordance with NCWM procedures and policies. The process begins at the regional weights and measures association meetings in the fall of each year and it is culminated at the NCWM Annual Meeting in July. After passing through one or more of the regional associations, the proposed amendment is placed on the agenda of the appropriate NCWM committee for consideration at the NCWM’s Interim Meeting in January, and after final deliberation and development by the committee, the amendment may be presented to the membership for a vote at the annual NCWM meeting in July. NCWM policy provides for exceptions to the process to accommodate urgent or priority items. NIST staff provides technical assistance and advice throughout the process.

The policy is available on the NCWM website at www.ncwm.com. For information on the regional weights and measures associations, visit www.ncwm.com/meetings.

(Amended 2015 and 2019)

D. Annual Meeting

1. The Committee will hold a public hearing at the Annual Meeting to discuss items on its agenda.
2. Those who want to speak on an item during the public hearing should request time from the Committee Chairman. The Committee Chairman may impose time limits on presentations, the discussion of a question, or the discussion of a proposed amendment.

E. Final Committee Reports and Conference Action

1. Following the public hearings, the Committee will prepare its final report for action by the voting membership of the Conference. Copies of the final report will be provided to the membership prior to the voting session for that report.
2. The Chairman of the Committee will present the final report of the Committee to the Conference body. A vote will be taken on items, proposals, or sections in the report as circumstances require. The Conference will vote on the entire final report as presented in accordance with the established Council's voting procedures. Parliamentary procedures according to Robert's Rules of Order, as amended by NCWM Bylaws, must be adhered to in the presentation of, and any action on, a Standing Committee report.

(Amended 1998)

F. Revisions to the Handbook

NIST may not publish a new edition if it determines that it is reasonable to forego an annual publication (e.g., amendments were minor or editorial in nature) to save printing, mailing, and other costs. If this occurs, NIST will issue a notice that the current edition is still valid and will explain its action.

(NOTE: Section numbering may be changed from one edition of the handbook to another to accommodate additions or deletions.)

(Amended 2008)

G. Annotation

Beginning in 1971, amendments or additions to sections in the Uniform Laws and Regulations are delineated at the end of each section (e.g., "amended 1982") as a service to those states that are planning to update their own laws or regulations. The references to each revision and the year will enable legislators and rule makers to study the actual wording and rationale for changes (appearing in the Annual Report of NCWM for that year) and subsequently adopt changes in their own laws and regulations, modeling them after the Uniform Laws and Regulations.

H. Effective Enforcement Dates of Regulations

Unless otherwise specified, the new or amended regulations listed in this section are intended to become effective and subject to enforcement on January 1 of the year following adoption by NCWM.

1. Uniform Packaging and Labeling Regulation
2. Uniform Regulation for the Method of Sale of Commodities

3. Uniform Unit Pricing Regulation
 4. Uniform Regulation for the Voluntary Registration of Servicepersons and Service Agencies for Commercial Weighing and Measuring Devices
 5. Uniform Regulation for National Type Evaluation
 6. Uniform Fuels and Automotive Lubricants Regulation
 7. Uniform E-commerce Regulation (effective date of enforcement January 1, 2025)
- (Added 1992) (Amended 2021 and 2023)

I. Section References

In most references made to specific sections or subsections in this handbook, the word “Section” is used, followed by the section number.

J. The International System of Units

The “International System of Units,” “SI,” or “SI Units” means the modernized metric system as established in 1960 by the General Conference on Weights and Measures (CGPM). In 1988, Congress amended the Metric Conversion Act of 1975 (refer to Section 5164 of Public Law 100-418) to declare that it is the policy of the United States to designate the metric system of measurement as the preferred measurement system for U.S. trade and commerce, and it further defined “the metric system of measurement” to be the International System as established by the CGPM and as interpreted or modified for the United States by the Secretary of Commerce. [refer to Metric Conversion Law 15 U.S.C. 205, NIST Special Publication 330 “The International System of Units (SI)”; NIST Special Publication 814 “Metric System of Measurement; and, Interpretation of the International System of Units for the United States” in Federal Register of May 16, 2008, (“Federal Register” Vol. 73, No. 96) or subsequent revisions]. In 1992, Congress amended the Federal Fair Packaging and Labeling Act to require certain consumer commodities to include the appropriate SI units along with the U.S. customary units in their quantity statements.

(Added 1993) (Revised 2008 and 2019)

K. “Mass” and “Weight” [see Section K. NOTE]

The mass of an object is a measure of the object’s inertial property, or the amount of matter it contains. The weight of an object is a measure of the force exerted on the object by gravity, or the force needed to support it. The pull of gravity on the earth gives an object a downward acceleration of about 9.8 m/s². In trade and commerce and everyday use, the term “weight” is often used as a synonym for “mass.” The “net mass” or “net weight” declared on a label indicates that the package contains a specific amount of commodity exclusive of wrapping materials. The use of the term “mass” is predominant throughout the world, and is becoming increasingly common in the United States.

(Added 1993)

Section K. NOTE: When used in this law (or regulation), the term “weight” means “mass.” (see paragraphs K. “Mass” and “Weight” and L. Use of the Terms “Mass” and “Weight” in Section I. Introduction of NIST Handbook 130 for an explanation of these terms.)

(Note Added 1993)

L. Use of the Terms “Mass” and “Weight” [see Section K. NOTE]

When used in this handbook, the term “weight” means “mass.” The term “weight” appears when U.S. customary units are cited or when both U.S. customary and SI units are included in a requirement. The terms “mass” or “masses” are used when only SI units are cited in a requirement. The following note appears where the term “weight” is first used in a law or regulation.

National Council on Weights and Measures / National Type Evaluation Program

Form 15: Proposal to Amend NIST Handbooks, Guidance Documents, NCWM Bylaws or NCWM Publication 14



Email proposals in Microsoft Word format to info@ncwm.com by August 15.

Each Regional Association will hold hearings on proposals in the fall. See meeting dates at www.ncwm.com/meetings. If any region deems that the item has merit, the region will forward the item to NCWM for national consideration. For more information on the Form 15 process, visit www.ncwm.com/standards-dev.

GENERAL INFORMATION			
1. Proposal to: ___ Laws & Regulations ___ Specifications & Tolerances ___ Professional Development ___ Board of Directors ___ NTEP Committee			
2. Submitter's Name:		3. Date:	
4. Submitter's Organization:		5. Address:	
6. City:	7. State:	8. Zip Code:	9. Country:
10. Phone Number:	11. Fax Number:	12. Email Address:	
PROPOSAL INFORMATION			
13. Purpose: Concise statement as to the intent or purpose of this proposal, such as problem being fixed. (Do not include justification here.)			
14. Document to be Amended: ___ Handbook 44 ___ Handbook 130 ___ Handbook 133 ___ NCWM Guidance Document ___ NCWM Bylaws ___ NTEP Administrative Policy			
15. Cite portion to be Amended: Submit a separate Form 15 for each code, model law or regulation to be amended. Section: Paragraph:			
16. Proposal: Use strikeout to show words to be deleted and <u>underline</u> to show new words. (Do not use track changes.)			
17. For Handbook 44 proposals, indicate one of the following: <input type="checkbox"/> Retroactive (Enforceable with respect to all devices) <input type="checkbox"/> Nonretroactive (Enforceable on or after the effective date for devices a) manufactured within a state after the effective date, b) both new and used equipment brought into a state after the effective date, c) used in noncommercial applications which are placed into commercial use after the effective date, and d) undergoing type evaluation including devices that have been modified to the extent that a new NTEP Certificate of Conformance is required.)			
18. Justification: Include national importance, background on the issue, and reference to supporting data or documents.			
19. Possible Opposing Argument's: Demonstrate that you are aware and have considered possible opposition.			
20. Requested Action if Considered for NCWM Agenda: ___ Voting Item ___ Developing Item ___ Informational Item ___ Other (Please Describe):			
21. List of Attachments:			

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Revised: June 2023

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D. Uniform Regulation for the Voluntary Registration of Servicepersons and Service Agencies for Commercial Weighing and Measuring Devices

as adopted by
The National Council on Weights and Measures*

1. Background

The Uniform Regulation covering the registration of servicepersons and service agencies was developed and adopted by the National Conference on Weights and Measures (NCWM) in 1966, retitled in 1983, and substantially revised in 1984. It is designed to promote uniformity among those jurisdictions that provide for or are contemplating the establishment of some type of control over the servicing of commercial weighing and measuring devices. It offers to a serviceperson or to a service agency the opportunity to register and carries with it the privilege of restoring devices to service and of placing new or used devices in service.

Two unique features of the registration plan are its voluntary nature and the provision for reciprocity. Registration is not required; however, the privileges gained make it attractive. Also, in order to provide maximum effectiveness of the program and to reduce legal obstacles to a minimum to service across state lines, provision is made for reciprocity in certification of standards and testing equipment among states.

2. Status of Promulgation

The table beginning on page 11 shows the status of adoption of the Uniform Regulation for the Voluntary Registration of Servicepersons and Service Agencies for Commercial Weighing and Measuring Devices.

*The National Council on Weights and Measures (NCWM) is supported by the National Institute of Standards and Technology (NIST) in partial implementation of its statutory responsibility for “cooperation with the states in securing uniformity in weights and measures laws and methods of inspection.”

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D. Uniform Regulation for the Voluntary Registration of Servicepersons and Service Agencies for Commercial Weighing and Measuring Devices

Section 1. Policy

For the benefit of the users, manufacturers, and distributors of commercial weighing and measuring devices, it shall be the policy of the Director of Weights and Measures, hereinafter referred to as “Director,” to accept registration of (a) an individual and (b) an agency providing acceptable evidence that he, she, or it is fully qualified by training or experience 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, rules, and regulations; and has possession of, or has available for use, and will use suitable and calibrated weights and measures field standards and testing equipment appropriate in design and adequate in amount. (An employee of the government shall not be eligible for registration.)

The Director will check the qualifications of each applicant. It will be necessary for an applicant to have available sufficient field standards and equipment (see Section 5, Minimum Equipment).

It shall also be the policy of the Department to issue a “Certificate of Registration” to qualified applicants whose applications for registration are approved. This Certificate grants authority to remove rejection seals and tags placed on Commercial and Law Enforcement Weighing and Measuring Devices by authorized weights and measures officials, to place in service repaired devices that were rejected, and to place in service devices that have been newly installed.

The Director is NOT guaranteeing the work or fair dealing of a Registered Serviceperson or Service Agency. The Director will, however, remove from the registration list any Registered Serviceperson or Service Agency that performs unsatisfactory work or takes unfair advantage of a device owner.

Registration with the Director shall be on a voluntary basis. The Director shall reserve the right to limit or reject the application of any Serviceperson or Service Agency and to revoke his, her, or its permit to remove rejection seals or tags for good cause.

This policy shall in no way preclude or limit the right and privilege of any individual or agency not registered with the Director to install, service, repair, or recondition a commercial weighing or measuring device (see Section 7, Privileges and Responsibilities of a Voluntary Registrant).

(Added 1966) (Amended 1984 and 2005)

Section 2. Definitions

2.1. Registered Serviceperson. – 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 with the Director of Weights and Measures.

(Added 1966)

2.2. Registered Service Agency. – Any agency, firm, company, or corporation that for hire, award, commission, or any other payment of any kind installs, services, repairs, or reconditions a commercial weighing or measuring device, and that voluntarily registers with the Director of Weights and Measures. Under agency registration, identification of individual servicepersons shall be required.

(Added 1966) (Amended 1984)

2.3. Commercial and Law Enforcement Weighing and Measuring Devices. – Any weight or measure or weighing or measuring 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. It shall also include any accessory attached to or used in connection with a commercial weighing or measuring device when such accessory is so designed or installed that its operation affects the accuracy of the device. It also includes weighing and measuring equipment in official use for the enforcement of law or for the collection of statistical information by government agencies.

(Added 1966) (Amended 1984)

Section 3. Registration Fee

There shall be charged by the Director an annual fee of \$ _____ per Registered Serviceperson and _____ per Registered Service Agency to cover costs at the time application for registration is made, and annually, thereafter.

(Added 1966) (Amended 1984)

Section 4. Voluntary Registration

An individual or agency qualified by training, experience, and/or certificate(s) granted by a recognized standards development organization or other jurisdictional authority approved by the Director; may apply for registration to service weighing devices or measuring devices on an application form supplied by the Director. Said form, duly signed and witnessed, shall include acknowledgement by the applicant that the individual or agency 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, and will use, all necessary testing equipment and standards; and has full knowledge of all appropriate weights and measures laws, orders, rules, and regulations. Each applicant, whether an individual or an agency, also shall submit an appropriate certificate(s), license(s) evidence, and/or references as to their qualifications to the Director. The certificate(s) shall apply to the types of weighing devices and measuring devices inspected and tested by the individual or agency. Device types without available certificate(s) available from a recognized standards development organization or other jurisdictional authority approved by the Director may be exempted from the certificate requirement. Application for registration shall be voluntary, but the Director is authorized to reject or limit any application. Application for registration shall be voluntary, but the Director is authorized to reject or limit any application.

(Added 1966) (Amended 1984 and 2024)

Section 5. Minimum Equipment

Applicants must have available sufficient standards and equipment to adequately test devices as set forth in the Notes section of each applicable code in NIST Handbook 44, “Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices.” This equipment will meet the specifications of NIST 105-series standards (or other suitable and designated standards). This section shall not preclude the use of additional field standards and/or equipment, as approved by the Director, for uniform evaluation of device performance (see Section 9, Examination and Calibration or Certification of Standards and Testing Equipment).

(Added 1984) (Amended 2005)

Section 6. Certificate of Registration

The Director will review and check the qualifications of each applicant. The Director shall issue to the applicant a “Certificate of Registration,” including an assigned registration number if it is determined that the applicant is qualified. The “Certificate of Registration” will expire 1 year from the date of issuance.

(Added 1966) (Amended 1984)

Section 7. Privileges and Responsibilities of a Voluntary Registrant

A bearer of a Certificate of Registration shall have the authority to remove an official rejection tag or mark placed on a weighing or measuring device by the authority of the Director; place in service, until such time as an official examination can be made, a weighing or measuring device that has been officially rejected; and place in service, until

such time as an official examination can be made, a new or used weighing or measuring device. The registered serviceperson or service agency is responsible for installing, repairing, and adjusting devices such that the devices are adjusted as closely as practicable to zero error.

(Added 1966) (Amended 1984)

Section 8. Placed in Service Report

The Director shall furnish each registered serviceperson and registered service agency with a supply of report forms to be known as “Placed in Service Reports.” Such a form shall be executed in triplicate, shall include the assigned registration number, and shall be signed by a registered serviceperson or by a serviceperson representing a registered agency for each rejected device restored to service and for each newly installed device placed in service. Within 24 hours after a device is restored to service or placed in service, the original of the properly executed Placed in Service Report, together with any official rejection tag removed from the device, shall be forwarded to the Director at _____(address). The duplicate copy of the report shall be handed to the owner or operator of the device, and the triplicate copy of the report shall be retained by the Registered Serviceperson or Registered Service Agency.

(Added 1966) (Amended 2005)

Section 9. Examination and Calibration or Certification of Standards and Testing Equipment

All field standards that are used for servicing and testing weights and measures devices for which competence is registered shall be submitted to the Director for initial and subsequent verification and calibration at intervals determined by the Director. A registered serviceperson or registered service agency shall not use in servicing commercial weighing or measuring devices any field standards or testing equipment that have not been calibrated or verified by the Director. In lieu of submission of physical standards, the Director may accept calibration and/or verification reports from any laboratory that is formally accredited or recognized. The Director shall maintain a list of organizations from which the state will accept calibration reports. The state shall retain the right to periodically monitor calibration results and/or to verify field standard compliance to specifications and tolerances when field standards are initially placed into service or at any intermediate point between calibrations.

(Added 1966) (Amended 1984, 1999, and 2005)

Section 10. Revocation of Certificate of Registration

The Director is authorized to suspend or revoke a Certificate of Registration for good cause which shall include, but not be limited to: taking of unfair advantage of an owner of a device; failure to have test equipment or standards certified; failure to use adequate testing equipment; or failure to adjust commercial or law enforcement devices to comply with Handbook 44 subsequent to service or repair.

(Added 1966) (Amended 1984)

Section 11. Publication of Lists of Registered Servicepersons and Registered Service Agencies

The Director shall publish, from time to time as deemed appropriate, and may supply upon request, lists of Registered Servicepersons and Registered Service Agencies.

(Added 1966)

Section 12. Effective Date

This regulation shall become effective on _____.

(Added 1966)

NIST Technical Publications

Periodical

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