



**Russian Federation**  
**Federal Law**  
**On Assurance of Measurement Uniformity**

*Adopted by the State Duma  
on June 11, 2008*

*Approved by the Federation Council  
on June 18, 2008*

**Chapter 1. General Provisions**

**Article 1. Purposes and scope of this Federal Law**

1. The purposes of this Federal Law are:

- 1) Establishment of the legal basis for measurement uniformity assurance in the Russian Federation;
- 2) Protection of the rights and legitimate interests of the citizens, the public and state from negative consequences of invalid measurement results;
- 3) Satisfaction of the needs of citizens, the public and state in obtaining of objective, credible and consistent results of measurements when the latter are used in order to ensure protection of citizens' life and health, preservation of the environment, fauna and flora, maintenance of defence and safety of the state, including economic safety;
- 4) Assistance to economic development of the Russian Federation and to scientific and technological progress.

2. This Federal Law regulates the relations arising at performance of measurements, establishment and observance of requirements to measurements, quantity units, measurement standards of quantity units, reference materials, measuring instruments, application of reference materials, measuring instruments,

measurement procedures (methods), and also at realization of assurance of measurement uniformity provided by the legislation of the Russian Federation on assurance of measurement uniformity, including performance of work and rendering of services on assurance of measurement uniformity.

3. The sphere of state regulation of assurance of measurement uniformity extends to measurements for which, with the purposes provided by part 1 of this Article, obligatory requirements are established and which are carried out at:

- 1) Realization of activity in the field of public health;
- 2) Realization of veterinary activity;
- 3) Realization of activity in the field of preservation of the environment;
- 4) Realization of activity on safety at emergency situations;
- 5) Performance of work aimed at maintenance of safe working conditions and insurance of labor protection;
- 6) Realization of industrial inspection over observance of established by the legislation of the Russian Federation industrial safety requirements to the operation of dangerous industrial objects;
- 7) Realization of trade and goods exchange operations, performance of work on prepackaging of products;
- 8) Performance of state accounting operations;
- 9) Rendering of postal services and recording of volume of telecommunication services rendered by communication operators;
- 10) Realization of activity in the field of defence and state safety;
- 11) Realization of geodetic and cartographical activity;
- 12) Realization of activity in the field of hydrometeorology;
- 13) Carrying out of bank, tax and customs operations;
- 14) Performance of work of assessment of conformity of industrial products and products of other kinds and also other objects to obligatory requirements established by the legislation of the Russian Federation;
- 15) Carrying out of official sports competitions, ensuring of preparation of high-class sportsmen;
- 16) Performance of commissions of court, of bodies of public prosecutors, of state executive power bodies;
- 17) Realization of activities of the state control (supervision).

4. The measurements provided by the Russian Federation legislation on technical regulation are also related to the sphere of state regulation on assurance of measurement uniformity.

5. The sphere of state regulation of assurance of measurement uniformity extends also over quantity units, measurement standards of quantity units, reference materials and measuring instruments for which obligatory requirements are established.

6. Obligatory requirements to measurements, measurement standards of quantity units, reference materials and measuring instruments shall be established by the legislation of the Russian Federation on assurance of measurement uniformity and the legislation of the Russian Federation on technical regulation. Obligatory requirements to quantity units, performance of work and (or) to rendering of services on assurance of measurement uniformity shall be established by the legislation of the Russian Federation on assurance of measurement uniformity.

7. Special features of assurance of measurement uniformity at realization of activities in the field of defence and state safety shall be established by the Government of the Russian Federation.

## **Article 2. Main concepts**

Used for the purposes of this Federal Law are the following main concepts:

1) Attestation of measurement procedures (methods) – research and confirmation of conformity of measurement procedures (methods) to the established metrological requirements to measurements;

2) Putting into operation of a measuring instrument – documentally proved in the established procedure readiness of a measuring instrument for use according to its intent;

3) State metrological supervision – surveillance in the sphere of state regulation of assurance of measurement uniformity, carried out by the authorized Federal executive power bodies and consisting in regular supervision of observance of obligatory requirements, established by the legislation of the Russian Federation, and also in taking actions, established by the legislation of the Russian Federation, for the offence revealed during supervising actions;

4) State primary measurement standard of quantity unit – state measurement standard of quantity unit, providing reproduction, storage and transfer of the quantity unit with the highest accuracy in the Russian Federation, approved in this quality in the prescribed manner and applied as initial in the territory of the Russian Federation;

5) State measurement standard of quantity unit – measurement standard of quantity unit being in Federal property;

- 6) Quantity unit – the fixed value of quantity accepted for unit of the given quantity and applied to quantitative expression of homogeneous quantities with it;
- 7) Measurement uniformity – measurement conditions when results of measurement are expressed in quantity units, admitted for use in the Russian Federation, and accuracy characteristics do not exceed the established limits;
- 8) Measurement – set of operations to be carried out for determination of quantity values;
- 9) Tests of reference materials or measuring instruments for the purpose of type approval – activities related to defining of metrological and technical characteristics of the same kind of reference materials or measuring instruments;
- 10) Calibration of measuring instruments – set of operations to be carried out in order to determine the conventionally true values of the metrological characteristics of measuring instruments;
- 11) Procedure (method) of measurements – set of specifically described operations, the performance of which allows to obtain measurement results with the established indices of accuracy;
- 12) Metrological service – structural division of the central office of the federal executive authority and (or) its regional body, the legal entity or structural division of the legal entity or association of legal entities, workers of legal entity, self-employed entrepreneur, organizing and (or) performing work on assurance of measurement uniformity and (or) rendering services in assurance of measurement uniformity;
- 13) Metrological expertise – analysis and assessment of correctness of an establishment and observance of metrological requirements with reference to the object which is subject to expertise. Metrological expertise is carried out on obligatory (obligatory metrological expertise) or voluntary basis;
- 14) Metrological requirements – requirements to characteristics (parameters) of measurements, measurement standards of quantity units, reference materials, measuring instruments, and also to conditions at which these characteristics (parameters) should be ensured in case those characteristics and conditions influence the results and accuracy indices of measurements;
- 15) Obligatory metrological requirements – metrological requirements established by normative legislative acts of the Russian Federation and liable to observance in the territory of the Russian Federation;
- 16) Transfer of quantity unit – revaluation of quantity unit stored by a measuring instrument to a quantity unit reproduced by the standard of the given measurement standard of quantity unit or by the reference material;

17) Verification of measuring instruments (further referred to as verification) – set of operations to be carried out for the purpose of conformity of measuring instruments to metrological requirements;

18) Traceability – affinity of the measurement standard of a quantity unit or measuring instrument consisting in their documentally proved statement on connection with the State primary standard of the corresponding quantity unit by means of comparison of measurement standards of quantity units, verification, or calibration of measuring instruments;

19) Direct measurement – measurement at which a measurand value is obtained directly from a measuring instrument;

20) Comparison of measurement standards of quantity units – set of operations establishing a correlation between quantity units, reproduced by measurement standards of quantity units of the same level of accuracy and in the same conditions;

21) Measuring instrument – technical device intended for measurements;

22) Reference material – sample of substance (material) with the values of one and more quantities characterizing the composition or property of this substance (material) established by test results;

23) Technical systems and devices with measuring functions – technical systems and devices which along with their basic functions carry out measuring functions;

24) Technical requirements to measuring instruments – requirements which define specific features of design of measuring instruments (without restriction of their technical perfection) for the purpose of preservation of their metrological characteristics while measuring instruments are in operation, achievement of reliability of measurement result, prevention of non-sanctioned adjustments and interventions, and also the requirements providing safety and electromagnetic compatibility of measuring instruments;

25) Type of measuring instruments – set of measuring instruments intended for measurements of the same quantities, expressed in the same quantity units based on the same principle of action, having an identical design and made according to the same technical specifications;

26) Type of reference materials – set of reference materials of the same purpose, prepared of the same substance (material) according to the same technical specifications;

27) Approval of type of reference materials or type of measuring instruments – documented decision in prescribed manner on a recognition of conformity of

reference materials type or measuring instruments type to metrological and technical requirements (characteristics) on the basis of test results of reference materials or measuring instruments for the purpose of type approval;

28) Pre-packaged products – any commodity packaged in absence of a buyer, so that the packaged contents cannot be changed without its opening or deformation, and the mass, volume, length, area or other quantities defining the amount of product containing in the package, should be labelled on the package;

29) Measurement standard of quantity unit – a technical mean designated for reproduction, storage and transfer of quantity unit.

### **Article 3. The legislation of the Russian Federation on assurance of measurement uniformity**

1. The legislation of the Russian Federation on assurance of measurement uniformity is based on the Constitution of the Russian Federation and includes this Federal Law, other Federal laws regulating the relations in the field of assurance of uniformity of measurements, and also accepted in accordance with them other normative legislative acts of the Russian Federation.

2. Provisions of Federal laws and other normative legislative acts of the Russian Federation, concerning the subject of regulation of this Federal Law, are applied in the part which does not contradict this Federal Law.

### **Article 4. International agreements of the Russian Federation**

Should other regulations are established by the international agreement of the Russian Federation than those contained in the Russian Federation legislation on assurance of measurement uniformity, the international agreement regulations shall be applied thereby.

## **Chapter 2. Requirements to measurements, quantity units, measurement standards of quantity units, reference materials, measuring instruments**

### **Article 5. Requirements to measurements**

1. The measurements concerning the sphere of state regulation of assurance of measurement uniformity should be carried out in compliance with the certified

(attested) measurement procedures (methods), except for measurement procedures (methods) intended for carrying out of direct measurements, with application of measuring instruments of the approved type which passed verification. Measurement results should be expressed in quantity units admitted to application in the Russian Federation.

2. Measurement procedures (methods) intended for carrying out of direct measurements, are included in the operation documentation for measuring instruments. Confirmation of conformity of these measurement procedures (methods) to obligatory metrological requirements to measurements is provided in the process of type approval of the given measuring instruments. In other cases, confirmation of conformity of measurement procedures (methods) to obligatory metrological requirements to measurements is provided by attestation of measurement procedures (methods). Data on the certified measurement procedures (methods) are transferred in the Federal Information Fund on assurance of measurement uniformity by legal entities and self-employed entrepreneurs that carried out the attestation.

3. Attestation of measurement procedures (methods) concerning the sphere of state regulation of assurance of measurement uniformity shall be carried out by accredited in the prescribed manner legal entities and self-employed entrepreneurs in the field of assurance of measurement uniformity.

4. The order of attestation of measurement procedures (methods) and their application is established by the Federal executive power body which is carrying out functions of development of state policy and normative and legal regulation in the field of assurance of measurement uniformity.

5. The Federal executive power bodies, which are carrying out normative and legal regulation in the scope of activities, which are mentioned in parts 3 and 4, Article 1 of this Federal Law, in coordination with the Federal executive power body, which is carrying out functions of development of state policy and normative and legal regulation in the field of assurance of measurement uniformity, define the measurements concerning the sphere of state regulation of assurance of measurement uniformity, and establish obligatory metrological requirements to them, including accuracy indices of measurements.

6. The Federal body of executive power, which is carrying out functions of rendering of state services and management of state property in the field of assurance of measurement uniformity, keeps a unified list of measurements concerning the sphere of state regulation of assurance of measurement uniformity.

## **Article 6. Requirements to quantity units**

1. Quantity units of the International System of Units, approved by the General Conference of Weights and Measures and recommended by the International Organization of Legal Metrology are applied in the Russian Federation. Some non-SI units may be admitted for application in the Russian Federation by the Government of the Russian Federation on equal terms with quantity units of the International System of Units. The names of the quantity units, admitted for application in the Russian Federation, their symbols, rules of writing and rules of application shall be established by the Government of the Russian Federation.

2. The characteristics and parameters of products to be exported, including the measuring instruments, may be expressed in quantity units stipulated by a contract with the Customer.

3. Quantity units are transferred to measuring instruments, technical systems and devices with measuring functions from measurement standards of quantity units and reference materials.

## **Article 7. Requirements to measurement standards of quantity units**

1. State measurement standards of quantity units form the Base of Measurement Standards of the Russian Federation.

2. State primary measurement standards of quantity units are not subject to privatization.

3. Data on state measurement standards of quantity units are entered by the Federal executive power body, which is carrying out functions of rendering of state services and management of state property in the field of assurance of measurement uniformity, in the Federal Information Fund on assurance of measurement uniformity.

4. State primary measurement standards of quantity units are kept and applied at state scientific metrological institutes.

5. State primary measurement standards of quantity units are subject to the approval by the Federal executive power body which is carrying out functions of rendering of state services and management of state property in the field of assurance of measurement uniformity.

6. State primary measurement standards of quantity units are subject to comparison with measurement standards of quantity units of the International Bureau of Weights and Measures and also with national measurement standards of quantity

units of other countries. The responsibility for timely providing of State primary measurement standard of quantity units for comparison shall be born by that state scientific metrological institute which keeps the given State primary measurement standard of quantity unit.

7. Applied in the Russian Federation are measurement standards of quantity units, which shall be traceable to State primary measurement standards of corresponding quantity units. In case the country does not have corresponding State primary measurement standards of quantity units, traceability of measuring instruments used in the sphere of state regulation of assurance of measurement uniformity shall be provided to national measurement standards of quantity units of foreign states.

8. The order of approval, maintenance, comparison and application of State primary measurement standards of quantity units, the order of transfer of quantity units from state measurement standards, the order of establishment of obligatory requirements to measurement standards of quantity units used for assurance of measurement uniformity in the sphere of state regulation of assurance of measurement uniformity, the order of assessment of conformity to these requirements, and also the order of their application are established by the Government of the Russian Federation.

### **Article 8. Requirements to reference materials**

1. Reference materials are intended for reproduction, storage and transfer of characteristics of composition or properties of substances (materials) expressed in values of quantity units, admitted for application in the Russian Federation.

2. Reference materials of the approved types shall be used in the sphere of state regulation of assurance of measurement uniformity.

### **Article 9. Requirements to measuring instruments**

1. In the sphere of state regulation of assurance of measurement uniformity admitted to use are the measuring instruments of the approved type which have passed verification according to the provisions of this Federal Law, and also providing observance of obligatory requirements established by the legislation of the Russian Federation on assurance of measurement uniformity, including obligatory metrological requirements to measurements, obligatory metrological and technical requirements to measuring instruments, and obligatory requirements established by the legislation of

the Russian Federation on technical regulation. The structure of obligatory requirements to measuring instruments in necessary cases also includes requirements to their components, the software and conditions of operation of measuring instruments. Observance of obligatory requirements to conditions of operation of measuring instruments during their application is mandatory.

2. The design of measuring instruments should be as such so that to provide restriction of access to certain parts of measuring instruments (including the software) in order to prevent unsanctioned adjustment and intervention which can lead to distortion of measurement results.

3. The order of identifying technical means as measuring instruments is established by the Federal executive power body which is carrying out functions of development of state policy and normative legal regulation in the field of assurance of measurement uniformity.

### **Article 10. Technical systems and devices with measuring functions**

Obligatory requirements to technical systems and devices with measuring functions, and also forms of their conformity assessment with the specified requirements are established by the Russian Federation legislation on technical regulation.

## **Chapter 3. State regulation in the field of assurance of measurement uniformity**

### **Article 11. Forms of state regulation in the field of assurance of measurement uniformity**

State regulation in the field of assurance of measurement uniformity is executed in the following forms:

- 1) Type approval of reference materials or type of measuring instruments;
- 2) Verification of measuring instruments;
- 3) Metrological expertise;
- 4) State metrological supervision;
- 5) Attestation of measurement procedures (methods);
- 6) Accreditation of legal entities and self-employed entrepreneurs to perform work and (or) render services in the field of assurance of measurement uniformity.

## **Article 12. Approval of type of reference materials or type of measuring instruments**

1. Type approval of reference materials or type of measuring instruments applied in the sphere of state regulation of assurance of measurement uniformity is subject to obligatory approval. Accuracy indices, an interval between verifications of measuring instruments, and also a verification procedure for the given type of measuring instruments are established during type approval of measuring instruments.

2. The decision on type approval of reference materials or type of measuring instruments shall be taken by the Federal executive power body which is carrying out functions of rendering of state services and management of state property in the field of assurance of measurement uniformity, on the basis of the positive results of tests of reference materials or measuring instruments for the purpose of type approval.

3. Type approval of reference materials or type of measuring instruments is confirmed by type approval certificate of reference materials or type of measuring instruments, issued by the Federal executive power body which is carrying out functions of rendering of state services and management of state property in the field of assurance of measurement uniformity. The interval between verifications of measuring instruments during the validity period of type approval certificate of measuring instruments can be changed only by the Federal executive power body which is carrying out functions of rendering of state services and management of state property in the field of assurance of measurement uniformity.

4. The type approval mark is stamped on each sample of the approved type of measuring instruments, on the documents accompanying the stated measuring instruments and the documents accompanying the approved type of reference materials. The design of measuring instruments shall provide the location for stamping of this mark where it is visibly displayed. In certain cases when the measuring instrument's design does not allow stamping of this mark directly on the measuring instrument, it is stamped on the accompanying documents.

5. The tests of reference materials or measuring instruments for the purpose of type approval shall be carried out by legal entities accredited in accordance with the rules established in the field of assurance of measurement uniformity.

6. Data on the approved types of reference materials and types of measuring instruments shall be included in the Federal Information Fund on assurance of measurement uniformity.

7. The procedure of testing of reference materials or measuring instruments for the purpose of type approval, the procedure of approval of reference materials type or measuring instruments type, the procedure of issuing of type approval certificates of reference materials or measuring instruments, of establishing and changing of the validity period of the specified certificates and an interval between two successive verifications of measuring instruments, of requirements to type approval marks of reference materials or type approval marks of measuring instruments and the procedure of their stamping shall be established by the Federal executive power body which is carrying out functions of development of state policy and normative and legal regulation in the field of assurance of measurement uniformity. The procedure of carrying out of tests of reference materials or measuring instruments for the purpose of type approval and the procedure of approval of reference materials type or measuring instruments type are established taking into account the specific aspects of the manufacture of reference materials and measuring instruments (serial or single-piece manufacture).

8. Legal entities and the self-employed entrepreneurs who are carrying out development, product release, import into the territory of the Russian Federation, sale and use in the territory of the Russian Federation not intended for application in the sphere of state regulation of assurance of measurement uniformity of reference materials and measuring instruments, can submit them for approval of reference materials type or measuring instruments type on a voluntary basis.

### **Article 13. Verification of measuring instruments**

1. The measuring instruments intended for application in the sphere of state regulation of assurance of measurement uniformity are subject to initial verification before putting into operation and after repair, and during their operation they are subject to periodic verification. Legal entities and self-employed entrepreneurs using measuring instruments in the sphere of state regulation of assurance of measurement uniformity are obliged to present in due time these measuring instruments for verification.

2. Verification of measuring instruments is carried out by legal entities and self-employed entrepreneurs accredited in accordance with the rule established in the field of assurance of measurement uniformity.

3. The list of measuring instruments that must be verified only by state regional metrological centers accredited in accordance with the rule established in the

field of assurance of measurement uniformity shall be determined by the Government of the Russian Federation.

4. The results of verification of measuring instruments shall be confirmed by verification mark and (or) verification certificate. The design of measuring instruments should provide location for stamping of verification mark where it is visibly displayed. If the design of measuring instruments do not allow stamping this mark directly on a measuring instrument, it is stamped on verification certificate.

5. The procedure of carrying out verification of measuring instruments, requirements to verification mark and the content of verification certificate shall be established by the Federal body executive power, which is carrying out functions of development of state policy and legal and normative regulation in the field of assurance of measurement uniformity.

6. Data on results of verification of measuring instruments intended for application in the sphere of state regulation of assurance of measurement uniformity shall be entered in the Federal Information Fund on assurance of measurement uniformity by legal entities and self-employed entrepreneurs which are carrying out verification of measuring instruments.

7. The measuring instruments which are not intended for application in the sphere of state regulation of assurance of measurement uniformity can be verified on a voluntary basis

#### **Article 14. Metrological expertise**

1. Requirements to measurements, reference materials and measuring instruments, contained in drafts of normative legal acts of the Russian Federation, are subject to obligatory metrological expertise. The conclusions of obligatory metrological expertise concerning the specified requirements shall be considered by the Federal executive power bodies establishing these acts. Obligatory metrological expertise of requirements to measurements, reference materials and measuring instruments contained in drafts of normative legal acts of the Russian Federation, shall be carried out by state scientific metrological institutes.

2. Obligatory metrological expertise of standards, products, project and design, technological documentation and other objects shall be carried out also in the order and the cases provided by the legislation of the Russian Federation. The mentioned expertise shall be carried out by legal bodies and self-employed entrepreneurs accredited in the prescribed manner in the field of assurance of measurement uniformity.

3. The order of carrying out of obligatory metrological expertise of requirements to measurements, reference materials and measuring instruments contained in drafts of normative legal acts of the Russian Federation, shall be established by the Federal executive power body which is carrying out functions of development of state policy and normative legal regulation in the field of assurance of measurement uniformity.

4. Metrological expertise of products, project and design, technological documentation and other objects can be carried out on a voluntary basis in relation to which obligatory metrological expertise is not provided by the legislation of the Russian Federation.

### **Article 15. State metrological supervision**

1. The state metrological supervision shall include:

1) Observance of obligatory requirements in the field of state regulation of assurance of measurement uniformity to measurements, quantity units, and also to measurement standards of quantity units, reference materials, measuring instruments during their release from manufacture, import to the territory of the Russian Federation, sale and application in the territory of the Russian Federation;

2) Availability and observance of the certified measurement procedures (methods);

3) Observance of obligatory requirements to deviation of quantity of prepackaged products from the declared value.

2. State metrological supervision shall extend to activities of legal entities and self-employed entrepreneurs who are carrying out:

1) Measurements related to the sphere of state regulation of assurance of measurement uniformity;

2) Release from manufacture intended for application in the field of state regulation of assurance of measurement uniformity of measurement standards of quantity units, reference materials and measuring instruments, and also their import to the territory of the Russian Federation, sale and application in the territory of the Russian Federation;

3) Prepackaging of goods.

3. Legal entities and self-employed entrepreneurs, who are carrying out the release from manufacture intended for application in the sphere of state regulation of assurance of measurement uniformity of measurement standards of quantity units, reference materials and measuring instruments, and also their import to the territory

of the Russian Federation and sale, are obliged to notify of the given activities the Federal executive power body, which is carrying out functions of state metrological supervision, not later than three months from the date of its realization. The notification procedure shall be established by the Federal executive power body which is carrying out functions of development of state policy and normative and legal regulation in the field of assurance of measurement uniformity.

4. The obligatory requirements to deviation of quantity of prepackaged products from the declared value on the package are established by technical regulations. The technical regulations can also contain obligatory requirements to equipment used for packaging and control of packaging, rules of conformity assessment of deviation of quantity of prepackaged products from the declared value, obligatory requirements to packing, marking or labeling of prepackaged products and label rules.

#### **Article 16. Federal executive power bodies which are carrying out state metrological supervision**

1. The state metrological supervision is carried out by the Federal executive power body which is carrying out functions of state metrological supervision, and also other Federal executive power bodies authorized by the President of the Russian Federation or the Government of the Russian Federation for realization of the given kind of supervision in the prescribed scope of activity.

2. The procedure of state metrological supervision, interaction of the Federal executive power bodies, which are carrying out state metrological supervision, and also distribution of responsibilities between them shall be established within their sphere of competence by the President of the Russian Federation or the Government of the Russian Federation. Distribution of authorities between the Federal executive power bodies, which are carrying out state metrological supervision, should prevent two or more Federal executive power bodies from having simultaneous responsibility for supervising of observance of the same requirements by an entity under supervision.

## **Article 17. The rights and duties of officials during state metrological supervision**

1. The duty of carrying out of inspection during state metrological supervision is assigned upon officials of Federal executive power bodies who are carrying out state metrological supervision, and their territorial bodies.

2. The officials who are carrying out inspection provided by part 1 of this Article, on condition that they present their official card and the order of the Federal executive power body, which is carrying out state metrological supervision, about the inspection to be conducted, have the right:

1) to visit the sites (territories and premises) of legal entities and self-employed entrepreneurs with the purpose of realization of state metrological supervision during execution of official duties;

2) to receive documents and the data necessary for carrying out of inspection.

3. The officials who are carrying out state metrological supervision are obliged:

1) to check conformity of quantity units in use to quantity units admitted for application in the Russian Federation;

2) to check condition and application of measurement standards of quantity units, reference materials and measuring instruments with the purpose of establishment of their conformity to obligatory requirements;

3) to check presence and observance of the certified measurement procedures (methods);

4) to check observance of obligatory requirements to measurements and obligatory requirements to deviation of quantity of the prepackaged products from the declared value.

5) to check observance of established notification procedure about the activities specified in part 3, Article 15 of this Federal Law by legal entities and self-employed entrepreneurs;

6) to observe state, commercial, official and other secrets protected by the law.

4. At revealing of infringements the official, who is carrying out state metrological supervision, is shall be obliged:

1) to forbid release from manufacture, import to the territory of the Russian Federation and sale of reference materials and measuring instruments of not approved types intended for application in the sphere of state regulation of assurance of measurement uniformity of reference materials and measuring instruments which are not corresponding to obligatory requirements (except for release from manufacture and import to the territory of the Russian Federation of reference

materials or the measuring instruments intended for carrying out tests of reference materials or measuring instruments with the purpose of type approval);

2) to forbid application of reference materials and measuring instruments of not approved types or reference materials and the measuring instruments which are not corresponding to obligatory requirements, and also non-verified measuring instruments at performance of the measurements concerning the field of state regulation of assurance of measurement uniformity;

3) to affix on measuring instruments rejection mark in cases when the measuring instrument does not comply with obligatory requirements;

4) to give obligatory instructions to execution and to establish terms of elimination of violation established by the legislation of the Russian Federation of obligatory requirements;

5) to forward materials about violations of requirements of the legislation of the Russian Federation on assurance of measurement uniformity to judicial and investigating bodies, and also to the Federal executive power body, which is carrying out accreditation in the field of assurance of measurement uniformity, in cases stipulated by the legislation of the Russian Federation;

6) to apply other actions according to the legislation of the Russian Federation.

5. The form of rejection mark of measuring instruments and the order of its affixing are established by the Federal executive power body which is carrying out functions on development of state policy and legal regulation in the field of assurance of measurement uniformity.

## **Chapter 4. Calibration of measuring instruments**

### **Article 18. Calibration of measuring instruments**

1. The measuring instruments which are not intended for application in the field of state regulation of assurance of measurement uniformity can be calibrated on a voluntary basis. Calibration of measuring instruments shall be carried out with the use of measurement standards of quantity units traceable to the State primary measurement standards of corresponding quantity units, and in the absence of corresponding State primary measurement standards of quantity units – to national measurement standards of quantity units of the foreign states.

2. Legal entities and self-employed entrepreneurs carrying out calibration of measuring instruments can be accredited in the field of assurance of measurement uniformity on a voluntary basis.

3. Results of calibration of the measuring instruments executed by legal entities or self-employed entrepreneurs accredited in accordance with the established procedure in the field of assurance of measurement uniformity can be used at verification of measuring instruments in the order established by the Federal executive power body carrying out functions on development of state policy and legal regulation in the field of assurance of measurement uniformity.

## **Chapter 5. Accreditation in the field of assurance of measurement uniformity**

### **Article 19. Accreditation in the field of assurance of measurement uniformity**

1. Accreditation in the field of assurance of measurement uniformity is carried out with the purpose of an official recognition of competence of the legal entity or self-employed entrepreneur to perform works and (or) to render services in assurance of measurement uniformity according to this Federal Law. The specified works and (or) services include:

- 1) Attestation of procedures (methods) of measurements concerning the sphere of state regulation of assurance of measurement uniformity;
- 2) Tests of reference materials or measuring instruments with the purpose of type approval;
- 3) Verification of measuring instruments;
- 4) Obligatory metrological expertise of standards, products, project and design and technological documentation and other objects, carried out in cases provided by the legislation of the Russian Federation.

2. Accreditation in the field of assurance of measurement uniformity is carried out on the basis of the following principles:

- 1) Voluntariness;
- 2) Competence and independence of experts involved in accreditation;
- 3) Inadmissibility of holding credentials on accreditation and performance of works and (or) rendering of services, specified in part 1 of this Article;

4) Application of unified regulations of accreditation, their openness and availability;

5) Provision of equal conditions to persons applying for accreditation;

6) Inadmissibility of illegal restriction of rights of legal entities and self-employed entrepreneurs being accredited for performance of works and (or) rendering of services in the field of assurance of measurement uniformity to all consumers (customers) and in the entire territory of the Russian Federation.

3. Regulations concerning the system of accreditation in the field of assurance of measurement uniformity, defining the Federal executive power body, which is carrying out accreditation in the field of assurance of measurement uniformity, and containing structure of the system, an order of accreditation, an order of definition of accreditation criteria, an order of certification of experts on accreditation invited on a contractual basis by the Federal executive power body, which is carrying out accreditation in the field of assurance of measurement uniformity, and an order of payment of works of the specified experts, shall be approved by the Government of the Russian Federation.

## **Chapter 6. Federal Information Fund on assurance of measurement uniformity**

### **Article 20. Federal Information Fund on assurance of measurement uniformity**

1. The normative legal acts of the Russian Federation, normative documents, information databases, international documents, international agreements of the Russian Federation in the field of assurance of measurement uniformity, data on the certified measurement procedures (methods), unified list of measurements concerning the sphere of state regulation of assurance of measurement uniformity, data on state measurement standards of quantity units, data on the approved types of reference materials or types of measuring instruments, data on results of verification of measuring instruments constitute the Federal Information Fund on assurance of measurement uniformity. Management of the Federal Information Fund on assurance of measurement uniformity and granting of data contained in it is organized by the Federal executive power body which is carrying out functions of rendering of state services and management of state property in the field of assurance of measurement uniformity.

2. Granting of documents and data containing in the Federal Information Fund on assurance of measurement uniformity is provided to interested persons in an order established by part 3 of this Article, except for cases when in interests of preservation of state, commercial, official, and (or) other secrets protected by the law such access to the specified documents and data should be restricted.

3. The order of creation and management of the Federal Information Fund on assurance of measurement uniformity, transfer of data to it and granting of documents and data containing in it shall be established by the Federal executive power body which is carrying out functions of development of state policy and normative and legal regulation in the field of assurance of measurement uniformity.

## **Chapter 7. Organizational bases of assurance of measurement uniformity**

### **Article 21. Federal executive power bodies, state scientific metrological institutes, state regional centres of metrology, metrological services, organizations carrying out activity on assurance of measurement uniformity**

1. Activity on assurance of measurement uniformity is based on the legislation of the Russian Federation on assurance of measurement uniformity and is carried out by:

1) The Federal executive power bodies which are carrying out functions of state metrological supervision, development of state policy and normative and legal regulation, rendering of state services, management of state property in the field of assurance of measurement uniformity;

2) Subordinated to the Federal executive power body, which is carrying out functions of rendering of state services and management of state property in the field of assurance of measurement uniformity, state scientific metrological institutes and state regional centres of metrology;

3) The State service of time, frequency and determination of the Earth's rotation parameters, the State service of standard reference data on physical constants and properties of substances and materials, the State service of reference materials of composition and properties of substances and materials, the management of which is carried out by the Federal executive power body which is carrying out

functions of rendering of state services and management of state property in the field of assurance of measurement uniformity;

4) Metrological services, including legal entities and self-employed entrepreneurs accredited in accordance with the established procedure in the field of assurance of measurement uniformity.

2. The main objectives of the Federal executive power bodies which are carrying out functions of development of state policy and normative and legal regulation, rendering of the state services, management of state property in the field of assurance of measurement uniformity and state metrological supervision, are:

1) Development of state policy and normative and legal regulation in the field of assurance of measurement uniformity, and also coordination of activity on normative and legal regulation in this field;

2) Organization of interaction with state authorities of foreign states and international organizations in the field of assurance of measurement uniformity;

3) Realization of state policy in the field of assurance of measurement uniformity;

4) Activity coordination of realization of state policy in the field of assurance of measurement uniformity;

5) Realization of state metrological supervision and coordination of activities on its realization.

3. The Government of the Russian Federation shall carry out distribution of authorities between the Federal executive power bodies, which are carrying out functions of development of state policy and normative and legal regulation, rendering of state services, management of state property in the field of assurance of measurement uniformity and state metrological supervision.

4. The main goals of the state scientific metrological institutes are:

1) Carrying out of fundamental and applied scientific investigations, experimental developments and realization of scientific and technical activity in the field of assurance of measurement uniformity;

2) Development, improvement, maintenance, comparison and use of State primary measurement standards of quantity units;

3) Transfer of quantity units from State primary measurement standards of quantity units;

4) Participation in development of normative documents drafts in the field of assurance of measurement uniformity;

5) Carrying out of obligatory metrological expertise of requirements to measurements, reference materials and measuring instruments contained in drafts of normative legal acts of the Russian Federation;

6) Creation and keeping of the Federal Information Fund on assurance of measurement uniformity and granting of documents and data containing in it;

7) Participation in international cooperation in the field of metrology.

5. The state scientific metrological institutes can also perform other works and (or) render other services on assurance of measurement uniformity.

6. The main objectives of the state regional centres of metrology are:

1) Carrying out of verification of measuring instruments according to the established scope of accreditation;

2) Improvement, maintenance and application of state measurement standards of quantity units used for maintenance of traceability of other measurement standards of quantity units and measuring instruments to State primary measurement standards of quantity units.

7. The state regional centres of metrology can also perform other works and (or) render other services related to assurance of measurement uniformity.

8. The State service of time, frequency and determination of the Earth's rotation parameters shall carry out scientific and technical, and metrological activity on reproduction of a national time scale and standard frequencies, on determination of the Earth's rotation parameters, and also on ensurance of the needs of the State in standard signals of time and frequency and in information about the Earth's rotation parameters.

9. The State service of reference materials of composition and properties of substances and materials shall carry out activity on development, testing and implementation of reference materials of composition and properties of substances and materials for the purpose of assurance of measurement uniformity on the basis of application of the specified reference materials, and also on keeping of corresponding sections of Federal Information Fund on assurance of measurement uniformity.

10. The State service of standard reference data on physical constants and properties of substances and materials shall carry out activity on working out and introduction of standard reference data on physical constants and properties of substances and materials in science and technology for the purpose of assurance of measurement uniformity on the basis of application of the specified standard reference data, and also on keeping of corresponding sections of the Federal Information Fund on assurance of measurement uniformity.

11. The State service of time, frequency and determination of the Earth's rotation parameters, State service of standard reference data on physical constants and properties of substances and materials, State service of reference materials of composition and properties of substances and materials shall carry out activity according to regulations on them, approved by the Government of the Russian Federation.

## **Article 22. Metrological services of Federal executive power bodies**

1. The Federal executive power bodies which are carrying out functions in the scope of activity, specified in parts 3 and 4, Article 1 of this Federal Law, create metrological services in the prescribed manner and (or) define officials with the purpose of organization of activity on assurance of measurement uniformity within their competence.

2. The rights and duties of metrological bodies of the Federal executive power bodies, an order of organization and coordination of their activity are defined by provisions on metrological services, confirmed by heads of the Federal executive power bodies which created metrological services, in coordination with the Federal executive power body which is carrying out functions of development of state policy and normative and legal regulation in the field of assurance of measurement uniformity.

## **Chapter 8. The liability for violation of the legislation of the Russian Federation on assurance of measurement uniformity**

### **Article 23. The responsibility of legal entities, their heads and workers, self-employed entrepreneurs**

Legal entities, their heads and workers, self-employed entrepreneurs that have admitted violation of the legislation of the Russian Federation on assurance of measurement uniformity, have had unjustified hindrance in realization of state metrological supervision, and (or) non-execution, at the stated time, of prescripts of the Federal executive power bodies, concerning elimination of the revealed violations, which are carrying out state metrological supervision, shall bear responsibility, according to the legislation of the Russian Federation.

## **Article 24. Liability of officials**

1. Officials of the Federal executive power bodies which are carrying out functions of development of state policy and normative and legal regulation, rendering of state services, management of state property in the field of assurance of measurement uniformity, and also the Federal executive power bodies which are carrying out state metrological supervision, and the organizations subordinated to them shall bear liability, according to the legislation of the Russian Federation, for violations of the legislation of the Russian Federation on assurance of measurement uniformity.

2. Actions (inaction) of officials can be appealed against, according to the legislation of the Russian Federation. The appeal of actions (inaction) of officials does not stop execution of their prescripts, except for the cases established by the legislation of the Russian Federation.

## **Chapter 9. Financing in the field of assurance of measurement uniformity**

### **Article 25. Financing in the field of assurance of measurement uniformity at the expense of the federal budget**

Financed at the expense of the federal budget are expenditures on:

- 1) Development, improvement, maintenance of State primary measurement standards of quantity units;
- 2) Development and improvement of state measurement standards of quantity units;
- 3) Fundamental investigations in the field of metrology;
- 4) Performance of works connected with activity of the State service of time, frequency and determination of the Earth's rotation parameters, the State service of standard reference data on physical constants and properties of substances and materials, the State service of reference materials of composition and properties of substances and materials;
- 5) Development of normative documents in the field of assurance of measurement uniformity, which shall be approved by the Federal executive power bodies;
- 6) Execution of works on the state metrological supervision;

7) Carrying out of comparison of State primary measurement standards of quantity units with measurement standards of quantity units of the International Bureau of Weights and Measures and national measurement standards of quantity units of foreign states;

8) Payment of fees of the Russian Federation in international organizations on metrology;

9) Creation and keeping of the Federal Information Fund on assurance of measurement uniformity;

10) Payment of works of experts on accreditation invited on a contractual basis by the Federal executive power body which is carrying out accreditation in the field of assurance of measurement uniformity.

## **Article 26. Payment of works and (or) services on assurance of measurement uniformity**

1. Works and (or) services on carrying out of obligatory metrological expertise of requirements containing in drafts of normative legal acts of the Russian Federation to measurements, reference materials and measuring instruments, on transfer of quantity units from the state measurement standards of quantity units and verification of the measuring instruments included in the list of measuring instruments which verification is carried out only by accredited state regional centres of metrology in the field of assurance of measurement uniformity, are paid at regulated prices in an order established by the Government of the Russian Federation.

2. Works and (or) services of carrying out of tests of reference materials or measuring instruments with the purpose of type approval, attestation of measurement procedures (methods), metrological expertise specified in parts 2 and 4 of Article 14 of this Federal Law, on verification of measuring instruments not included in the list of measuring instruments, specified in part 1 of this Article, calibration of measuring instruments shall be paid by interested persons according to terms of the concluded agreements (contracts) if not provided otherwise by the legislation of the Russian Federation.

## **Chapter 10. Final provisions**

### **Article 27. Final provisions**

1. The normative legal acts of the Russian Federation provided by this Federal Law, except for the normative legal acts of the Russian Federation concerning the legislation of the Russian Federation on technical regulation, should be accepted within two years from the date of coming into force of this Federal Law.

2. Before the day of coming into force of this Federal Law the Federal executive power bodies which are carrying out normative legal regulation in the areas of activity, specified in part 3 of Article 1 of this Federal Law, define, within their competence, lists of measurements, concerning the sphere of state regulation of assurance of measurement uniformity, in agreement with the Federal executive power body which is carrying out functions of development of state policy and normative and legal regulation in the field of assurance of measurement uniformity.

3. Normative legal acts of the Government of the Russian Federation, and also metrological rules and norms accepted to execute the Law of the Russian Federation dated April 27<sup>th</sup>, 1993 No. 4871-1 "On Assurance of Measurement Uniformity", shall operate in the part not contradicting to this Federal Law, from the date of coming into force of this Federal Law and before the day of coming into force of normative legal acts of the Russian Federation provided by this Federal Law.

4. The documents issued according to metrological rules and norms, specified in part 3 of this Article, shall be valid until the date of expiry.

### **Article 28. On recognition of becoming invalid of certain legal acts (provisions of legal acts) of the Russian Federation**

From the date of coming into force of this Federal Law to recognize as becoming invalid:

1) The Law of the Russian Federation dated April 27<sup>th</sup>, 1993, No. 4871-1 "On Assurance of Measurement Uniformity" (Bulletin of the Congress of the People's Deputies of the Russian Federation, 1993, No.23, Art.811);

2) The Decision of the Supreme Soviet of the Russian Federation, dated April 27<sup>th</sup>, 1993, No.4872-1 "On Enactment of the Law of the Russian Federation 'On Assurance of Measurement Uniformity'" (Bulletin of the Congress of People's Deputies of the Russian Federation, 1993, No.23, Art.812);

3) Article 7 of the Federal Law dated January 10<sup>th</sup>, 2003, No. 15-FZ "On entry of changes and amendments in some legal acts of the Russian Federation in connection with adoption of the Federal Law 'On Licensing of Certain Types of Activity) (Collected Legislation of the Russian Federation, 2003, No.2, Art.167).

### **Article 29. Coming into force of this Federal Law**

This Federal Law comes into force upon the expiry of one hundred and eighty days after the day of its official publication.

D.Medvedev,  
President of the Russian Federation

Moscow, Kremlin

26 June 2008

No.102-FZ