

Pursuant to article 8 paragraph 2 of the Law on Metrology (Official Gazette of Montenegro 79/08), the Ministry of Economy hereby issues the

RULEBOOK

ON TECHNICAL AND METROLOGICAL CONDITIONS AND THE PROCEDURE OF AUTHORIZATION OF PERSONS FOR PREPARATION OF MEASURING SYSTEMS FOR LIQUIDS OTHER THAN WATER FOR VERIFICATION

(Official Gazette of Montenegro 15/10 of 23 March 2010, 81/10 of 31 December 2010, 09/13 of 12.02.2013)

I. BASIC PROVISIONS

Article 1

This rulebook prescribes technical and metrological conditions, necessary expert staff, and the procedure of authorization of a company, i.e. other legal person to perform the activity of preparing measuring systems for liquids other than water (liquid fuels, liquefied petroleum gas, milk, and other liquids in the food industry) for verification.

Measuring systems, which are used for dynamic measuring of quantities of liquids other than water and are made of measuring instruments for quantities of liquids, are meant by measuring systems referred to in the paragraph 1 of this article.

Article 2

Preparation of measuring systems referred to in the article 1 of this rulebook for verification includes visual examination of the measuring systems, reparation, and preparation of standards for the measuring system testing and testing, i.e. checking of the metrological and technical characteristics of the measuring systems.

A written report shall be made on performed activities, referred to in paragraph 1 of this article, and it includes:

- 1) Information on the measuring system user (name, registered office, address, responsible person, TIN, phone);
- 2) Information on site and date of measuring system testing;
- 3) Information on measuring system (manufacturer, type, year of manufacture and serial number);
- 4) Metrological and other technical information for verification;
- 5) Short description of measuring system malfunction;
- 6) Date and place of report;
- 7) Stamp, name, surname, and signature of the person responsible in the authorized company i.e. other legal person for verification of measuring systems for verification.

Article 3

An authorized company, i.e. other legal person authorized to perform the activity of preparing measuring systems referred to in the article 1 of this rulebook must not remove the national hallmark from the measuring system during the reparation, without an official of the Bureau of Metrology (hereinafter referred to as the Bureau) present.

After reparation of the measuring system, referred to in the paragraph 1 of this article, verification of the measuring systems shall be performed.

Preparation and verification of the measuring systems referred to in the paragraph 1 of this article shall be performed in working conditions at the site of use of the measuring systems or at the workplace of the authorized company, i.e. other legal person authorized to perform the activity of preparing measuring systems.

II. TECHNICAL AND METROLOGICAL CONDITIONS AND NECESSARY EXPERT STAFF

Article 4

The activities of preparation of measuring systems for verification, referred to in the article 1 of this rulebook, can be performed by an authorized company, i.e. other legal person, if:

- 1) It is registered in the Central register of Commercial Entities with the Commercial Court for performing activities in the field of metrology;
- 2) It has measuring system testing equipment;
- 3) It has premises to accommodate the measuring system testing equipment;
- 4) It has the necessary expert staff.

Article 5

For testing measuring systems mounted on road tankers or stable measuring systems for liquid fuels, in order to prepare them for verification, the authorized company, i.e. other legal person, must have the following equipment:

- 1) One or more standard capacity measures of minimal nominal volume which allows testing of one-minute flow for the maximum flow of the measuring system, whose extended uncertainty in measurement results is 0.05%;
- 2) Thermometer ranging from -10°C to +40°C, whose smallest scale interval must not be higher than 0.1°C;
- 3) Stopwatch with resolution of 0.1s.

Article 6

For testing measuring systems mounted on road tankers for milk and other liquids in the food industry, in order to prepare them for verification, the authorized company, i.e. other legal person, must have the following equipment:

- 1) Standard capacity measure, of minimal nominal volume which allows testing of one-minute flow for the maximum flow of the measuring system, whose extended uncertainty in measurement results is 0.1%;
- 2) Thermometer ranging from -10°C to +40°C, whose smallest scale interval must not be higher than 0.1°C;
- 3) Stopwatch with resolution of 0.1s.

Article 7

For testing measuring systems mounted on road tankers or stable measuring systems for liquefied petroleum gas, in order to prepare them for verification, the authorized company, i.e. other legal person, must have the following equipment:

- 1) Standard capacity measure, of minimal nominal volume of 1,000 liters, whose extended uncertainty in measurement results is 0.1%, or a comparative meter (master meter), whose extended uncertainty in measurement results is 0.1% with a measure of minimal nominal volume 1,000 liters, whose extended uncertainty in measurement results is 0.05%;
- 2) Thermometer ranging from -10°C to +40°C, whose smallest scale interval must not be higher than 0.1°C;
- 3) Manometer ranging from 0 to 25 bars, of accuracy class of 0.5;
- 4) Stopwatch with resolution of 0.1s.

Article 8

In addition to equipment referred to in articles 5, 6, and 7 of this rulebook, for testing of measuring systems, in order to prepare them for verification, the authorized company, i.e. other legal person must have additional equipment, according to the instructions from the measuring system manufacturer.

Article 9

In order to perform the activity of preparing measuring systems mounted on road tankers, referred to in articles 5, 6, and 7 of this rulebook, the authorized company, i.e. other legal person must have the premises provided.

Article 10

When the preparation of measuring systems mounted on road tankers, referred to in articles 5, 6, and 7 of this rulebook, is performed at the premises of the authorized company, i.e. other legal person, the premises must:

- 1) Be clean, dry and spacious enough to accommodate the necessary equipment and for undisturbed testing of measuring systems mounted on road tankers;
- 2) Be protected from direct sunlight;
- 3) Have day light and adequate electric lighting;
- 4) Have adequate grounding system;
- 5) Have the possibility of testing measuring systems mounted on road tankers with and without the pump within the measuring system;
- 6) have a control thermometer for measuring workspace air temperature installed, of measuring range from 0°C to 35°C, whose smallest scale interval must not be higher than 0.5°C;
- 7) Have the possibility of preventing unauthorized entrance during preparation of measuring systems mounted on road tankers.

Only equipment used for testing can be accommodated in the premises for measuring system testing.

The premises for measuring system testing must be protected from quake and vibration sources, which could affect the measuring accuracy.

Article 11

For equipment referred to in articles 5, 6, 7, and 10 paragraph 1 item 6 of this rulebook, a certificate on verification, i.e. calibration certificate must be issued.

The equipment referred to in the paragraph 1 of this article must have a valid hallmark.

Article 12

The control thermometer for measuring workspace air temperature, referred to in the article 10 paragraph 1 item 6 of this rulebook, must be installed on the wall of the premises for preparation of measuring systems, 1.50 to 1.70 m high from the floor of the room.

Article 13

All additional equipment connections to a power supply source must be explosion-proof.

Article 14

The person authorized to perform the activity of preparing measuring systems for verification must have at least two (2) permanent employees, with at least high school qualification of technical education, and at least three (3) years of work experience in testing, manufacturing, or servicing of measuring systems.

III. AUTHORIZATION PROCEDURE

Article 15

Authorization of a company, i.e. other legal person to perform the activity of preparing measuring systems, referred to in the article 1 of this rulebook, for verification, is done upon application, which is submitted to a competent state administration authority for the field of metrology (hereinafter referred to as the Ministry).

The application, referred to in the paragraph 1 of this article, includes the information on applicant (name, registered office, tax identification number, phone), as well as the measuring system/systems to which the application refers (for liquid fuels, liquefied petroleum gas, liquids in food industry, etc.).

The company, i.e. other legal person shall support the application referred to in the paragraph 2 of this article with:

- 1) Evidence that the company, i.e. other legal person has the equipment prescribed by this rulebook (technical documentation);
- 2) Written statement stating that the company has the premises to accommodate the measuring system testing equipment;
- 3) Evidence on employed expert staff pursuant to conditions referred to in the article 14 of this rulebook.

Article 16

The Ministry authorizes the company, i.e. other legal person, which fulfills the requirements prescribed by this rulebook, to perform the activity of preparing measuring systems, referred to in the article 1 of this rulebook, for verification.

The authorization referred to in the paragraph 1 of this article is issued by a decision.

Article 17

The authorized person referred to in the article 16 paragraph 1 of this rulebook submits reports on preparation of measuring systems for verification to the Bureau of Metrology every three months and takes part in comparative tests, organized by the Bureau.

The authorized person referred to in the paragraph 1 of this article keeps the reports on preparation of measuring systems for verification in printed or electronic form, for at least three (3) years from the date of termination of the certificate period.

FINAL PROVISION

Article 18

This Rulebook shall enter into force on the eighth day following that of its publication in the Official Gazette of Montenegro.

No 0094-693/4
Podgorica, 11 March 2010

Ministry of Economy
Minister,
Branko Vujović, m.p.