

APPROVED BY
By the decision of
the Customs Union Commission
dated December 9 , 2011 No. 879

TECHNICAL REGULATIONS OF THE CUSTOMS UNION

TR CU 020/2011

Electromagnetic compatibility of technical equipment

Content

Foreword 3

Article 1. Scope of application 3

Article 2. Definitions 4

Article 3. Rules of circulation on the market 7

Article 4. Requirements for electromagnetic compatibility 8

Article 5. Requirements for marking and operational documents 8

Article 6. Ensuring compliance with the requirements for electromagnetic compatibility 10

Article 7. Confirmation of conformity 11

Article 8. Marking with a unified mark of product circulation on the market States - members of the Customs Union 22

Article 9. Safeguard clause 23

Appendix 1. Types of technical means, passive in relation to electromagnetic compatibility, for which technical regulations do not apply
Customs Union "Electromagnetic compatibility of technical means" (TR CU 020/2011) 24

Appendix 2. Types of electromagnetic interference generated by a technical device and (or) affecting for a technical device that is subject to the technical regulations of the Customs Union "Electromagnetic compatibility of technical equipment" (TR CU 020/2011) 26

Appendix 3. List of technical means subject to confirmation of conformity in the form of certification in accordance with technical regulations
Customs Union "Electromagnetic compatibility of technical means" (TR CU 020/2011) 28

Foreword

1. This technical regulation of the Customs Union was developed in accordance with the Agreement on common principles and rules of technical regulation in the Republic of Belarus, the Republic of Kazakhstan and the Russian Federation dated November 18, 2010.

2. This technical regulation of the Customs Union has been developed to ensure the establishment in the unified customs territory of the Customs Union of uniform requirements for electromagnetic compatibility of technical equipment, mandatory for application and fulfillment, to ensure the free movement of technical equipment released into circulation in the unified customs territory of the Customs Union.

3. If in regard to the technical means adopted by other technical regulations of the Customs Union, establish requirements for technical means, the hardware must meet the requirements of the technical regulations of the Customs Union, the effect of which on their spread.

Article 1. **Field of application**

1. This technical regulation of the Customs Union applies to technical equipment that is capable of creating electromagnetic interference and (or) the quality of functioning of which depends on the effect of external electromagnetic interference, released into circulation in the common customs territory of the Customs Union.

2. This technical regulation of the Customs Union does not apply to technical means:

- used by manufacturers of other technical means as their constituent parts and not intended for independent use;
- passive in relation to electromagnetic compatibility;

- not included in the Unified list of products in respect of which are set mandatory requirements in the framework of the Customs Union, approved by the Commission of the Customs Union (hereinafter - the Commission).

If technical regulations of the Customs Union are adopted for certain classes, groups and types

of technical means, establishing fully or partially with greater certainty the requirements for electromagnetic compatibility, then from the date of entry into force of these technical regulations of the Customs Union, the effect of this technical regulation of the Customs Union in relation to these technical means and requirements for electromagnetic compatibility are terminated.

3. The present technical regulations of the Customs Union sets the requirements for electromagnetic compatibility of technical means in order to ensure on a single customs territory of the Customs Union, the protection of life and health of the person, property, as well as the prevention of actions, introducing in misleading the consumers (users) of technical means.

4. This technical regulation of the Customs Union does not regulate relations associated with the use of the radio frequency spectrum, which is governed by the national legislation of the Member States of the Customs Union in the field of communications.

Article 2. **Definitions**

In the present technical regulations of the Customs Union shall apply the following terms and their definitions:

apparatus - a structurally completed technical device, which has a housing (shell) and, if necessary, devices (ports) for external connections, intended for use by the consumer (user);

manufacturer - a legal entity or an individual as an individual entrepreneur carrying out on its own behalf the production or production and sale of technical equipment and is responsible for their compliance with the requirements for electromagnetic compatibility of the technical regulations of the Customs Union;

importer - a resident of the State - a member of the Customs Union, which is made from non-resident countries - members of the Customs Union foreign trade contract on the transfer of technical means, carries out the implementation of these technical means and is responsible for their compliance with the requirements of the electromagnetic compatibility of technical regulations of the Customs Union;

component - a structurally completed part of a technical device intended for inclusion by the consumer (user) into the apparatus; circulation of a technical device on the market - the processes of transition of a technical device from a manufacturer to a consumer (user) in the common customs territory of the Customs Union, which are undergoing technical

the product after the completion of its manufacture;

use of application - use of technical means in accordance with the purpose, said by the manufacturer to this technical means and (or) in operational documents;

technical means - any electrical, electronic and radio-electronic product, as well as any product containing electrical and (or) electronic components, which can be classified into the following categories: component, apparatus and installation;

technical means, passive in relation to electromagnetic compatibility - technical means, which, in virtue of its structural and functional characteristics during the use of the destination without the use of additional means of protection against electromagnetic interference, such as a screening or filtering, are unable to create electromagnetic interference breaking operation means connection and other technical means in accordance with their purpose, and is able to function without deterioration when exposed to electromagnetic interference, the respective electromagnetic environment for applications in which the intended technical means of (types of technical means, passive in relation

to electromagnetic compatibility, are shown in Appendix 1 to this technical regulations of the Customs Union);

authorized by the manufacturer of the person - legal or natural person registered in the established order of the state - a member of the Customs Union as defined by the manufacturer on the basis of a contract with them for the implementation of the actions of his name when confirmation matching and placement of products on the single customs territory of the Customs Union, as well as for laying responsibility for non-compliance of products with the requirements of the technical regulations of the Customs Union;

installation (mobile or stationary) - a set of interconnected devices and, if necessary, other products, intended for use by the consumer (user) as a product with a single functional purpose and having a single technical documentation;

resistance to electromagnetic interference (noise immunity) - the ability of a technical device to maintain a given quality of functioning when exposed to external electromagnetic interference with regulated parameter values;

electromagnetic compatibility - the ability of a technical device to function with a given quality in a given electromagnetic environment and not create unacceptable electromagnetic interference to other technical equipment;

electromagnetic environment - a set of electromagnetic phenomena and processes in a given area of space;

electromagnetic interference is an electromagnetic phenomenon or process that reduces or may reduce the quality of the functioning of a technical device.

Article 3. **Rules of circulation on the market**

1. A technical device is released into circulation on the market if it complies with this technical regulation of the Customs Union, as well as other technical regulations of the Customs Union, which apply to it , and provided that it has passed the confirmation of conformity in accordance with Article 7 of this technical regulation of the Customs Union, as well as in accordance with other technical regulations of the Customs Union, which apply to it .

2. A technical device, the compliance of which with the requirements of this technical regulation of the Customs Union has not been confirmed, should not be marked with a single mark of product circulation on the market of the Member States of the Customs Union and shall not be allowed to be put into circulation on the market.

3. A technical device not marked with a single mark of product circulation on the market of the Member States of the Customs Union is not allowed to be put into circulation on the market.

Article 4. Requirements for electromagnetic compatibility

The technical device must be designed and manufactured in such a way that when it is used for its intended purpose and when the requirements for installation, operation (use), storage, transportation (transportation) and maintenance are met :

- the electromagnetic interference generated by the technical means did not exceed the level that ensures the functioning of communication facilities and other technical means in accordance with their purpose;

- technical means has level of resistance to electromagnetic interference (noise immunity), providing his operation in an electromagnetic environment, for applications in which it is intended.

The types of electromagnetic interference created by a technical device and (or) affecting a technical device are given in Appendix 2 to this technical regulation of the Customs Union.

Article 5. Requirements for marking and operational documents

1. The name and (or) designation of the technical device (type, brand, model - if any), its main parameters and characteristics, the name and (or) trademark of the manufacturer, the name of the country where the technical device is manufactured, must be applied to the technical device and are indicated in the operating documents attached to it.

In this case, the name of the manufacturer and (or) his trademark, the name and designation of the technical device (type, brand, model - if any) must also be applied to the package.

2. If the information given in paragraph 1 of this article cannot be applied to a technical device, then they can be indicated only in the operational documents attached to this technical device. In this case, the name of the manufacturer and (or) its trademark, the name and designation of the technical device (type, brand, model - if any) must be applied to the packaging.

3. The marking of the technical device must be legible, easily readable and applied to the technical device in a place accessible for inspection without disassembling with the use of a tool.

4. Operational documents for a technical device must contain:

- information listed in paragraph 1 of this article;
- information on the purpose of the technical means;
- characteristics and parameters;
- rules and conditions for the installation of a technical device, its connection to the electrical network and other technical means, start-up, regulation and commissioning, if the fulfillment of these rules and conditions

is necessary to ensure the compliance of the technical device with the requirements of this technical regulation of the Customs Union;

- information about restrictions on the use of a technical device, taking into account its purpose for working in residential, commercial and industrial areas;

- rules and conditions for safe operation (use);
- rules and conditions, storage, transportation (transportation), sale and disposal (if necessary - the establishment of requirements for them);

- information on the measures to be taken when a malfunction of a technical device is detected ;

- the name and location of the manufacturer (authorized by the manufacturer faces), the importer, the information to communicate with them;

- month and year of manufacture of the technical device and (or) information about the place of application and the method of determining the year of manufacture.

5. Operational documents executed in the Russian language and in the state (s) language (s) of the state - a member of the Customs Union with the presence of the relevant requirements in the law (s) state (in) - a member (s) of the Customs Union.

Operational documents are carried out on paper. To them it can be applied a set of operational documents on electronic media. Operational documents included in the set of technical equipment for non-household purposes can only be executed on electronic media.

Article 6. Ensuring compliance with the requirements for electromagnetic compatibility

1. The compliance of the technical means with this technical regulation of the Customs Union is ensured by the fulfillment of its requirements for electromagnetic compatibility directly or by the fulfillment of the requirements of the standards included in the List of standards, as a result of which, on

a voluntary basis , compliance with the requirements of the technical regulation of the Customs Union is ensured .

2. Methods of research (testing) and measurements of a technical device are established in the standards included in the List of standards containing rules and methods of research (testing) and measurements, including the rules for sampling necessary for the application and fulfillment of requirements

technical regulations of the Customs Union and the implementation of evaluation (confirmation) of conformity of production.

Article 7. Confirmation of conformity

1. Before being put into circulation on the market, a technical device must undergo confirmation of compliance with the requirements for electromagnetic compatibility of this technical regulation of the Customs Union.

Confirmation of conformity of a technical device is carried out according to the schemes established in this technical regulation of the Customs Union, in accordance with the Regulations on the procedure for the application of standard schemes for assessment (confirmation) of conformity in the technical regulations of the Customs Union, approved by the Commission.

2. The technical means included in the List given in Appendix 3 to this technical regulation of the Customs Union are subject to confirmation of conformity in the form of certification (schemes 1c, 3c, 4c).

Technical means not included in the specified List are subject to confirmation of conformity in the form of a declaration of conformity (schemes 1d, 2d, 3d, 4d, 6d). The choice of the scheme for declaring the conformity of technical

equipment not included in the List is carried out by the manufacturer (the person authorized by the manufacturer), the importer.

By the decision of the manufacturer (the person authorized by the manufacturer), the importer, confirmation of the conformity of technical means not included in the List may be carried out in the form of certification in accordance with paragraph 5 of this article.

In case of non-application of the standards specified in paragraph 1 of Article 6 of this technical regulation of the Customs Union, or in their absence,

confirmation of the conformity of the technical means is carried out in the form of certification (schemes 1c, 3c, 4c) in accordance with paragraph 10 of this article.

3. Certification of a serially produced technical device is carried out according to scheme 1c. The technical means for certification is presented by the manufacturer (the person authorized by the manufacturer).

Certification of a batch of technical means is carried out according to the 3c scheme, a single product - according to the 4c scheme. A batch of technical equipment (a single product) manufactured in the unified customs territory of the Customs Union is represented by the manufacturer, a batch of technical equipment (a single item) imported into the unified customs territory of the Customs Union is represented by an importer or manufacturer (a person authorized by the manufacturer).

4. Certification of technical resources held body for certification (assessment (confirmation)) included in the Unified Register of bodies on certification and test laboratories (centers) of the Customs Union.

Tests in order Certification conducts an accredited testing laboratory (center) included in the Unified Register of bodies on certification and test laboratories (centers) of the Customs Union.

5. When carrying out the certification of technical means (scheme 1c, 3c, 4c):

5.1. the manufacturer (the person authorized by the manufacturer), the importer provides the certification body (assessment (confirmation)) of

conformity) with a set of documents for the technical device, confirming the compliance of the technical device with the requirements for electromagnetic compatibility of this technical regulation of the Customs Union, which includes:

- technical conditions (if any);
- operational documents;

- a list of standards, the requirements of which this technical device must comply with from the List of standards specified in paragraph 1 of Article 6 of this technical regulation of the Customs Union;

- a contract (agreement on delivery) or shipping documentation (for a batch of technical means (single product) (scheme 3c, 4c);

5.2. The manufacturer has taken all the necessary measures, to the process of production was stable and ensures compliance of manufactured technical resources requirements of the present technical regulations of the Customs Union;

5.3. authority for certification (assessment (confirmation) of conformity)

5.3.1. performs the selection of the sample (samples);

5.3.2. carries out the identification of the technical means by establishing the identity of its characteristics with the features established in Article 1 of this technical regulation of the Customs Union, the provisions established by Article 5 of this technical regulation of the Customs Union, and the documents listed in clause 5.1 of clause 5 of this article;

5.3.3. organizes testing of a sample (samples) of a technical device for compliance with the requirements of standards from the List of standards specified in paragraph 1 of Article 6 of this technical regulation of the Customs Union, and analyzes the test report (s) ;

5.3.4. conducting analysis of the state of production (Scheme 1c).

When available at the manufacturer's certified system of management of quality of production or the development and production of technical means evaluates the possibility of the system to ensure a steady release of certified technical resources relevant requirements of the present technical regulations of the Customs Union;

5.3.5. issues a certificate of conformity in a uniform form approved by the Commission. The validity period of the certificate of conformity for serially produced technical equipment is no more than 5 years; for a batch of technical equipment (a single product), the validity period of the certificate of conformity is not established;

5.4. The manufacturer (authorized by the manufacturer of the face), importer:

5.4.1. applies a single sign of product circulation on the market of the Member States of the Customs Union;

5.4.2. forms after the confirmation of a set of compliance documents for technical means, in which includes:

- documents provided for in sub-clause 5.1 of this clause;
- test report (s) ;
- the results of the analysis of the state of production;
- certificate of conformity.

5.5. Body for certification (assessment (confirmation) matching) conducts inspection control for certified technical means by means of the test samples in an accredited test laboratory (center) and (or) analysis of the state of production (Scheme 1c);

6. Declaration of conformity of a technical device (schemes 1d, 2d, 3d, 4d, 6d) is carried out on the basis of:

6.1. own evidence (schemes 1d, 2d):

- testing the technical means (for a batch of technical means, a single product) (scheme 2e);

- carrying out tests of technical means and production control by the manufacturer (for technical means, produced commercially available) (scheme 1e);

6.2. evidence obtained with the participation of an accredited testing laboratory (center), authority for certification systems management quality, included in the Unified Register of bodies on certification and test laboratories (centers) of the Customs Union (circuit 3d, 4d, 6d)

- testing of technical means (for a batch of technical means, a single product) (scheme 4e) ;

- carrying out tests of technical means and industrial manufacturer control (for technical facilities, mass-produced) (Scheme 3e);

- carrying out tests of technical means certification of the system of production quality management and the development and production of industrial equipment and industrial control manufacturer (for the equipment commercially available) (6d scheme).

6.3. The declaration of conformity of serially produced technical equipment is carried out by the manufacturer (a person authorized by the manufacturer) according to schemes 1d, 3d, 6d.

The declaration of conformity of a batch of technical means (a single product) is carried out by the manufacturer (the person authorized by the manufacturer), the importer according to schemes 2d, 4d.

7. When declaring the conformity of a technical device according to schemes 1d,

2d:

7.1. The manufacturer (authorized by the manufacturer of the face), importer:

7.1.1. generates a set
of documents confirming compliance

technical means to the requirements of this technical regulation of the Customs Union, which includes:

- technical conditions (if any);
- operational documents;
- a list of standards, the requirements of which this technical device meets , from the List of standards specified in paragraph 1 of Article 6 of this technical regulation of the Customs Union;
- protocol (s) of tests carried out in a testing laboratory (center) at the choice of the manufacturer (manufacturer's authorized person), importer;
- certificate of conformity (if any);
- manufacturer's declaration of conformity (if any) (for a batch of technical means (a single product) (scheme 2e);
- a contract (agreement on delivery) or shipping documentation (for a batch of technical means, a single product) (Scheme 2d) ;

7.1.2. carries out the identification of the technical means by establishing the identity of its characteristics with the features established in Article 1 of this technical regulation of the Customs Union, the provisions established by Article 5 of this technical regulation of the Customs Union, and the documents listed in clause 7.1.1. clause 7.1 of this article;

7.2. the manufacturer carries out production control and takes all necessary measures to ensure that the production process ensures that the technical device meets the requirements of this technical regulation of the Customs Union (Scheme 1e).

Requirements for the production and control of processes and the results of their monitoring must be furnished documented (in the form established by the manufacturer);

7.3. The manufacturer (authorized by the manufacturer of the face), importer:

7.3.1. It

receives compiled in written form declaration of compliance technical means of the present technical regulations Customs union of a single form approved by the Commission, and causes

a single sign of product circulation on the market of the Member States of the Customs Union;

7.3.2. includes, after the completion of the confirmation of conformity, in the set of documents for the technical device, given in subparagraph 7.1.1. of this paragraph, the declaration of conformity.

8. When declaring the conformity of a technical device according to schemes 3d, 4d, 6d:

8.1. The manufacturer (authorized by the manufacturer of the face), importer:

8.1.1. generates a set of documents for a technical device, which includes:

- technical conditions (if any);

- operational documents;

- a list of standards, the requirements of which this technical device must comply with from the List of standards specified in paragraph 1 of Article 6 of this technical regulation of the Customs Union;

- a contract (agreement on delivery) or shipping documentation (for a batch of technical means, a single product) (scheme 4d);

- certificate of conformity for the quality management system of production or development and production of technical means (Scheme 6d);

8.1.2. carries out the identification of the technical means by establishing the identity of its characteristics with the signs established in Article 1

of this technical regulation of the Customs Union, the provisions established by Article 5 of this technical regulation of the Customs Union, and the documents listed in clause 8.1.1. paragraph 8.1. of this article;

8.1.3. organizes testing of a sample (samples) of a technical device for compliance with the requirements of standards from the List of Standards,

specified in paragraph 1 of Article 6 of this technical regulation of the Customs Union;

8.2. manufacturer:

carries out production control and takes all necessary measures to ensure that the production process ensures that the technical device meets the requirements of this technical regulation of the Customs Union (schemes 3d, 6d). Requirements for the processes of production and control, as well as the results of their monitoring must be furnished documented (in the form established by the manufacturer);

takes all necessary measures to ensure that the production process and the stable functioning of the quality management system of production or development and production ensure that the technical means meets the requirements of this technical regulation of the Customs Union (Scheme 6d);

8.3. The manufacturer (authorized by the manufacturer of the face), importer:

8.3.1. receives compiled in written form of declaration of conformity of technical means of the present technical regulations of the Customs Union on a single form approved by the Commission, and inflicts a single sign of products on the market states - members of the Customs Union;

8.3.2. forms after the confirmation of a set of compliance documents for technical means, in which includes:

- documents provided for in sub-clause 8.1.1 of clause 8.1 of this article;
- test report (s) ;

- declaration of conformity.

9. The declaration of conformity is subject to registration in accordance with the legislation of the Customs Union. The declaration begins on the day of its registration.

The validity period of the declaration of conformity for serially produced technical equipment is no more than 5 years; for a batch of technical equipment (a single product), the validity period of the declaration of conformity is not established.

10. When carrying out certification of a technical device, in case of non-application of standards from the List of standards specified in paragraph 1 of Article 6 of this technical regulation of the Customs Union, or in their absence (schemes 1c, 3c, 4c):

10.1. the manufacturer (the person authorized by the manufacturer), the importer provides the certification body (assessment (confirmation) of conformity) with a set of documents for the technical device, confirming the compliance of the technical device with the requirements for electromagnetic compatibility of this technical regulation of the Customs Union, which includes:

- technical conditions (if any);
- operational documents;
- a description of the adopted technical solutions, confirming the fulfillment of the requirements for electromagnetic compatibility of this technical regulation of the Customs Union;
- a contract (agreement on delivery) or shipping documentation (for a batch of technical means (single product) (scheme 3c, 4c);

10.2. The manufacturer has taken all the necessary measures, to the process of production was stable and ensures compliance of manufactured

technical means to the requirements of this technical regulation of the Customs Union;

10.3. authority for certification (assessment (confirmation) of conformity)

10.3.1. performs the selection of the sample (samples);

10.3.2. carries out the identification of a technical device by establishing the identity of its characteristics with the features established in Article 1 of this technical regulation of the Customs Union, the provisions established by Article 5 of this technical regulation of the Customs Union, and the documents listed in subparagraph 10.1 of paragraph 10 of this Article;

10.3.3. carries out confirmation of the compliance of the technical device directly with the requirements for electromagnetic compatibility of this technical regulation of the Customs Union.

In this case, the certification body (assessment (confirmation) of conformity):

- on the basis of the requirements for electromagnetic compatibility of this technical regulation of the Customs Union and the conditions of the electromagnetic environment for the use in which the technical device is intended, determines the specific requirements for electromagnetic compatibility for the certified technical device;

- conducting analysis adopted technical solutions, supporting the implementation of the requirements of the electromagnetic compatibility of the technical regulations of the Customs Union, carried out by the manufacturer;

- determines from the List of standards specified in paragraph 2 of Article 6 of this technical regulation of the Customs Union, standards establishing methods of measurements and tests or, in their absence, determines the methods of control, measurements and tests to confirm

compliance of a technical device with specific requirements for electromagnetic compatibility;

- organizes conducting tests of technical means and conducts analysis of the protocol (protocol) tests;

10.3.4. conducting analysis of the state of production (Scheme 1c);

When available in the manufacturer's certified system management quality production or development and production of technical means estimates the possibility of the system to provide stable release of the certified technical means, corresponding to the requirements of the Technical Regulations of the Customs union;

10.3.5. issues a certificate of conformity in a uniform form approved by the Commission.

The validity period of the certificate of conformity for serially produced technical equipment is no more than 5 years; for a batch of technical equipment (a single product), the validity period of the certificate of conformity is not established;

10.4. The manufacturer (authorized by the manufacturer of the face), importer:

10.4.1. causing a single sign -treatment products on the market states - members of the Customs Union;

10.4.2. forms after completion of verification of conformity set of documents on the technical means in which includes:

- documents provided for in sub-clause 10.1 of this clause;
- test report (s) ;
- the results of the analysis of the state of production;
- certificate of conformity;

10.5. authority for certification (assessment (confirmation) of conformity) conducts inspection control for certified technical

means by means of the test samples in an accredited test laboratory (center) and (or) analysis of the state of production (scheme 1c).

11. When confirming the conformity of stationary installations, according to the manufacturer's decision, an examination of the technical documentation for ensuring electromagnetic compatibility is carried out, as well as calculation and experimental methods are applied, the documented results of which are to be included in the set of documents for the technical device.

12. The set of documents on the technical means should be stored in the territory of the states - members of the Customs Union on:

- technical means - from the manufacturer (manufacturer's authorized person) to within not less than 10 years from the date of withdrawal (termination) to the production of technical means;

- a batch of technical means - from the importer or a person authorized by the manufacturer for at least 10 years from the date of sale of the last product from the batch.

Article 8. Marking a single sign of products on the market states - members of the Customs Union

1. Technical means of appropriate requirements of the electromagnetic compatibility of the technical regulations of the Customs Union and the elapsed procedure verification of compliance in accordance with Article 7 of the present technical regulations of the Customs Union should be labeled single sign - treatment products on the market states - members of the Customs Union.

2. Marking with a single mark of product circulation on the market of the Member States of the Customs Union is carried out before the release of a technical device into circulation on the market.

3. Single sign -treatment products on the market states - members of the Customs Union is applied to every technical means in any way, providing a clear and clear image in during the entire period of service of technical means, but also provided in the attached to it operational documents.

4. It is allowed to apply a single mark of product circulation on the market of the Member States of the Customs Union only on the packaging of the technical device and in the operational documents attached to it , if it cannot be applied directly to the technical device.

5. Technical means of labeled single mark of products on the market states - members of the Customs Union with its compliance requirements of all technical regulations of the Customs Union, the effect of which on it is distributed, and provide for the application of this mark.

Article 9. **Safeguard clause**

The member states of the Customs Union are obliged to take all measures to restrict, prohibit the release into circulation of technical equipment in the common customs territory of the Customs Union, as well as withdraw from the market technical equipment that does not meet the requirements for electromagnetic compatibility of this technical regulation of the Customs Union.

Appendix 1

to the technical regulations
of the Customs Union
"Electromagnetic

compatibility of
technical means " (TR CU
020/2011)

**Types of technical means,
passive with regard to electromagnetic compatibility,
on which not covered by the technical regulations of the Customs Union**

**"Electromagnetic compatibility of technical
equipment" (TR CU020/2011)**

1. Wires, cords, cables and cable assemblies.
2. Technical equipment containing only resistive load and not having automatic switching devices, for example, household electric heaters without thermostats or fans.
3. Electric batteries and accumulators and lighting equipment powered by them without active electronic circuits.
4. Headphones and loudspeakers without amplification functions .
5. Protective equipment that creates transient electromagnetic interference of short duration (much less than 1 s) as a result of operation in the event of a short circuit or an abnormal situation in the electrical circuit, which does not contain fuses (emergency shutdown devices) with active electronic parts.
6. High-voltage equipment, in which the possible sources of electromagnetic interference caused only localized defects of insulation (e.g., high voltage inductors, high voltage transformers) with the proviso that the above equipment are not contain active electronic parts.
7. capacitors, e.g., capacitors for correcting coefficient power.
7. Induction electric motors.
8. Quartz watch (without additional functions, for example, radio reception).

9. Incandescent lamps.
10. Plugs, sockets, fuse fuses, switches and circuit breakers without active electronic circuits.
11. Passive antennas for receiving radio and television broadcasting.

Appendix 2

to the technical regulations
of the Customs Union
"Electromagnetic
compatibility of
technical means "
(TR CU 020/2011)

Types of electromagnetic interference created by a technical device and (or) affecting a technical device on which the technical regulations of the Customs Union apply

"Electromagnetic compatibility of technical equipment" (TR CU 020/2011)

1. Low frequency conducted electromagnetic interference:
 - steady - state power supply voltage deviations ;
 - distortion of the sinusoidality of the power supply voltage ;
 - voltage unbalance in three-phase power supply systems ;
 - fluctuations in power supply voltage ;
 - dips, interruptions and surges of power supply voltage ;
 - frequency deviations in power supply systems ;
 - voltage of signals transmitted in power supply systems ;
 - DC components in AC power supply networks ;
 - induced low-frequency voltages.

2. Low frequency radiated electromagnetic interference:

- magnetic fields;
- electric fields.

3. High

frequency conducted electromagnetic interference, including industrial radio interference:

- voltages or currents, which are continuous fluctuations;

-

voltage or current, representing a transient processes (aperiodic and vibrational).

4. High

frequency radiated electromagnetic interference, including industrial radio interference:

- magnetic fields;
- electric fields;
- electromagnetic field, in fact those caused

by continuous fluctuations and transients.

5. Electrostatic discharge.

Appendix 3

to the technical regulations
of the Customs Union
"Electromagnetic

compatibility of
technical means "
(TR CU 020/2011)

List of technical means,
subject to confirmation of conformity in the form of
certification in accordance with the technical regulations of
the Customs Union
"Electromagnetic compatibility of technical
equipment" (TR CU 020/2011)

1. Electrical machines and appliances domestic purposes:

- for the preparation and storage of food and the mechanization of kitchen work;
- for processing (washing, ironing, drying, cleaning) linen, clothes and shoes;
- for cleaning and cleaning of premises;
- sanitary and hygienic;
- to maintain and adjust the microclimate in the premises;
- to care for hair, nails and skin;
- for body heating ;
- vibromassage;
- play, sports and exercise equipment;
- audio and video equipment, TV and radio broadcasting receivers ;
- sewing and knitting;
- power supplies, chargers , voltage stabilizers ;
- for gardening ;

- electric pumps;
- light equipment ;
- automatic switches with electronic control;
- device protection tripping with electronic control;
- arc welding equipment .

2. Personal electronic computing machines (personal computers).
3. Technical means connected to personal electronic computers :
 - printers;
 - monitors;
 - scanners;
 - sources of uninterruptible power supply;
 - Active speaker system with powered from the network of alternating current;
 - multimedia projectors.
4. Electrified tools (hand-held and portable electric machines).
5. Electromusical instruments .