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**CUSTOMS UNION
TECHNICAL REGULATIONS**

CU TR 020/2011

Electromagnetic Compatibility of Technical Products

BELLIS

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Foreword

1. These Customs Union Technical Regulations is worked out in accordance with the Agreement on Uniform Principles and Rules of Technical Regulation in the Republic of Belarus, Republic of Kazakhstan and Russian Federation dated 18 November 2010.
2. These Customs Union Technical Regulations is worked out to establish, within the common customs territory of the Customs Union, uniform and mandatory requirements to be applied and observed with regard to electromagnetic compatibility of technical products and ensure free movement of technical products which are put into circulation within the common customs territory of the Customs Union.
3. If, with regard to technical products, other technical regulations setting forth requirements to technical products are adopted by the Customs Union, then technical products shall comply with the requirements of these technical regulations of the Customs Union where applicable.

Article 1. Scope of Application

1. These Customs Union Technical Regulations apply to technical products to be put into circulation within the common customs territory of the Customs Union which are capable to generate electromagnetic disturbances and/or whose quality of functioning depends on exposure to external electromagnetic disturbances.

2. These Customs Union Technical Regulations do not apply to technical products which:

are used by manufacturers of other technical products as components and are not intended to be used as self-contained products;
are passive in terms of electromagnetic compatibility;
are not included into Unified List of Products which sets the mandatory requirements in the Customs Union, approved by the Customs Union Commission (further – Commission).

If other technical regulations setting forth, in whole or in part, more definite requirements to electromagnetic compatibility for individual classes, groups and types of technical products are adopted by the Customs Union, then since the effective date of such other technical regulations of the Customs Union these Customs Union Technical Regulations shall cease to apply to either such technical products or the requirements to electromagnetic compatibility.

3. These Customs Union Technical Regulations set forth requirements to electromagnetic compatibility of technical products with the purpose to protect human life, health and property as well as to prevent any actions that may mislead consumers (users) of technical products.

4. These Customs Union Technical Regulations do not apply to the relations connected with the use of the radio-frequency range, which is regulated by national legislations on radio/telecom in the CU member countries.

Article 2. Definitions

The following terms and their definitions are used in these Customs Union Technical Regulations:

Apparatus – a constructively complete technical product with housing/enclosure and, where necessary, devices (ports) for external connections which is intended to be used by consumers (users);

Manufacturer – a legal entity, or a physical person in the capacity of individual entrepreneur, that manufacturers and/or trades in technical products on its own behalf and is responsible for their conformity with the electromagnetic compatibility requirements of these Customs Union Technical Regulations;

Importer – a resident of a Customs Union member state who has a foreign trade contract with a non-resident of the Customs Union members states regarding the transfer of technical products, trades in

these technical products and is responsible for their conformity with the electromagnetic compatibility requirements of these Customs Union Technical Regulations;

Component – a constructively complete part of a technical product that is intended to be included into the apparatus by the consumer (user);

Circulation of a technical product on the market – the processes of passing a technical product from the manufacturer to the consumer (user) within the common customs territory of the Customs Union which the technical product undergoes after its manufacture is completed;

Intended use – application of a technical product as indicated by the manufacturer on this technical product and/or in its operation manuals;

Technical product – any electro-technical, electronic and radio-electronic product as well as any product containing electric and/or electronic component parts that may be referred to such categories as component, apparatus and assembly;

Technical product passive in terms of electromagnetic compatibility – a technical product which, when used as intended and without any extra means of protection against electromagnetic disturbances such as shielding or filtering, is, by virtue of its constructive and functional features, incapable to generate electromagnetic disturbances disrupting the intended function of communication facilities and other technical products and capable to function without any loss in quality of operation when exposed to electromagnetic disturbances corresponding to the electromagnetic environment in which this technical product is intended to be used (types of technical products passive in terms of electromagnetic compatibility are listed in Annex 1 to these Customs Union Technical Regulations);

Manufacturer's authorized person – a legal entity or physical person duly registered at a Customs Union member state that is contractually authorized by the manufacturer to act on the manufacturer's behalf as regards ensuring the conformity approval and marketing of the manufacturer's products within the common customs territory of the Customs Union and undertaking liability for non-compliance of the manufacturer's products with the requirements of these Customs Union Technical Regulations;

Assembly (movable or stationary) – an aggregate combination of interconnected apparatuses and, where necessary, of other products which is intended to be used by consumers (users) as a product of integral intended function and which has integral technical documentation;

Immunity to electromagnetic disturbances (noise immunity) – capability of a technical product to maintain a given quality of function when exposed to external electromagnetic disturbances with regulated values of their parameters;

Electromagnetic compatibility – capability of a technical product to function at a given level of quality in a given electromagnetic environment without generating inadmissible electromagnetic disturbances to other technical products;

Electromagnetic environment – an aggregate combination of electromagnetic phenomena and processes within a given space area;

Electromagnetic disturbance – an electromagnetic phenomenon or process which impairs or can impair the function of a technical product.

Article 3. Rules of Circulation on the Market

1. A technical product may be put into circulation on the market if it complies with these Customs Union Technical Regulations as well as other applicable technical regulations of the Customs Union and passed conformity approval procedures according to Article 7 hereof and other applicable technical regulations of the Customs Union.

2. A technical product whose conformity with the requirements of these Customs Union Technical Regulations is not approved may not bear the uniform product circulation mark covering the market of the Customs Union member states and may not be put into circulation on the market.

3. A technical product which fails to bear the uniform product circulation mark covering the market of the Customs Union member states may not be put into circulation on the market.

Article 4. Requirements to Electromagnetic Compatibility

A technical product shall be designed and produced in the way that, if it is used as intended and the requirements to its installation, operation (use), storage, haulage (transportation) and technical maintenance are observed:

electromagnetic disturbances generated by this technical product do not exceed the level at which communication facilities and other technical products can function in accordance with their intended purpose;

the technical product has a level of immunity to electromagnetic disturbances (noise immunity) ensuring that it can function in the electromagnetic environment in which this technical product is intended to be used.

Types of electromagnetic disturbances created by a technical product and/or influencing a technical product are specified in Annex 2 to these Customs Union Technical Regulations.

Article 5. Requirements to Marking and Operation Manuals

1. The name and/or designation of a technical product (type, make and model, if any), its basic parameters and features, manufacturer's name and/or trade/brand name, name of the country where the technical product was manufactured shall be marked on the technical product and specified in the operation manuals attached thereto.

At the same time, the manufacturer's name and/or trade/brand name, name and designation of the technical product (type, make and model, if any) shall be marked on the package as well.

2. If it is impossible to mark the data indicated in clause 1 hereof on a technical product itself, then it is allowed that it is specified only in the operation manuals attached to this technical product. At the same time, the manufacturer's name and/or trade/brand name, name and designation of the technical product (type, make and model, if any) shall be marked on the package.

3. The marking on a technical product shall be distinct and easily readable and shall be affixed on the technical product in a place accessible for visual examination without tool-assisted disassembly.

4. Operation manuals attached to a technical product shall contain:

the information indicated in clause 1 hereof;

information on the intended use of the technical product;

the features and parameters;

rules and conditions regulating the installation of the technical product, its connection to the mains and other technical products, its startup, adjustment and commissioning in case the observance of the said rules and conditions is imperative to ensure the conformity of the technical product with the requirements of these Customs Union Technical Regulations;

a notification of restrictions on the application of the technical product in household, commercial and industrial areas taking into account its intended use;

rules and conditions of safe operation (use);

rules and conditions of storage, haulage (transportation), sale and disposal (and, where appropriate, a specification of requirements to these);

information on the measures to be taken in case a malfunction of the technical product is detected; the name and place of the manufacturer (manufacturer's authorized person) and importer and their contact information;

the production month and year of the technical product and/or information on the place where the production year is marked or on the way it can be identified.

5. Operation manuals shall be made in Russian and in (an) official language(s) of the respective Customs Union member state if so required by the laws of the Customs Union member state(s).

Operation manuals shall be made in the form of hardcopies. An electronic set of operation manuals may be enclosed therewith. Operation manuals to be attached to non-household technical products may be made in the electronic form only.

Article 6. **Ensuring Conformity with Electromagnetic Compatibility Requirements**

1. The conformity of a technical product with these Customs Union Technical Regulations is ensured either through the direct observance of their electromagnetic compatibility requirements or through the observance of the requirements specified by the standards included in the List of Standards which, if applied on a voluntary basis, ensure that the requirements of these Customs Union Technical Regulations are observed.

2. Methods of examinations (tests) and measurements applicable to a technical product are set forth in the standards included in the List of Standards containing rules and methods of examinations (tests) and measurements, including sampling rules, that are necessary for the application and observance of the requirements of these Customs Union Technical Regulations and for the conduct of product conformity assessment/approval procedures.

Article 7. **Conformity Approval**

1. Prior to coming out into circulation on the market, a technical product must undergo conformity approval procedures to confirm its conformity with electromagnetic compatibility requirements of these Customs Union Technical Regulations.

The conformity of a technical product is to be approved according to appropriate schemes as specified in the Guidelines for the Application of Model Conformity Assessment/Approval Schemes in the Customs Union Technical Regulations adopted by the Customs Union Commission (hereinafter referred to as "the Commission").

2. Technical products included in the List specified in the Annex 3 to these Customs Union Technical Regulations are subject to conformity approval in the form of certification (Schemes 1c, 3c and 4c).

Technical products that are not included in the above-mentioned List are subject to conformity approval in the form of declaration of conformity (Schemes 1d, 2d, 3d, 4d and 6d). The selection between conformity declaration schemes for the technical products that are not included in the above-mentioned List is made by the manufacturer (manufacturer's authorized person) and/or importer.

As may be decided by the manufacturer (manufacturer's authorized person) and/or importer, the conformity approval of technical products that are not included in the above-mentioned List may be carried out in the form of certification in accordance with clause 5 hereof.

In case the standards specified in Article 6 (clause 1) of these Customs Union Technical Regulations fail to be applied or exist, the conformity approval of a technical product is carried out in the form of certification (Schemes 1c, 3c and 4c) in accordance with clause 10 hereof.

3. The certification of a mass-produced technical product is carried out under Scheme 1c. A technical product for certification is to be provided by the manufacturer (manufacturer's authorized person).

The certification of a batch of technical products is carried out under Scheme 3c. An individual technical product is certified under Scheme 4c. A batch of technical products (or an individual technical product) manufactured within the common territory of the Customs Union is to be provided by the manufacturer. A batch of technical products (or an individual technical product) exported to the common territory of the Customs Union is to be provided by the importer or the manufacturer (manufacturer's authorized person).

4. The certification of technical products shall be carried out by an accredited certification (conformity assessment/approval) body included in the Customs Union Common Register of Certification Bodies and Testing Laboratories (Centres).

Certification tests shall be carried out by an accredited testing laboratory (centre) included in the Customs Union Common Register of Certification Bodies and Testing Laboratories (Centres).

5. When a technical product is subjected to certification (Schemes 1c, 3c and 4c):

5.1. The manufacturer (manufacturer's authorized person) and/or importer shall provide the certification (conformity assessment/approval) body with a set of documents for the technical product proving the conformity of the technical product with electromagnetic compatibility requirements of these Customs Union Technical Regulations. Such set of documents shall include:

the Technical Specifications (is any);
operation manuals;

a list of the standards to whose requirements this technical product shall comply with out of the List of Standards specified in Article 6 (clause 1) of these Customs Union Technical Regulations;
the contract (supply contract) or shipment documents (for a batch of technical products or an individual technical product) (Schemes 3c and 4c);

5.2. The manufacturer shall take all necessary measures to make sure that the production process is stable and secures the conformity of the manufactured technical product with the requirements of these Customs Union Technical Regulations;

5.3. The certification (conformity assessment/approval) body:

5.3.1. carries out sampling;

5.3.2. makes identification of the technical product by establishing identity of its features with the criteria specified in Article 1 of these Customs Union Technical Regulations, provisions of Article 5 of these Customs Union Technical Regulations and documents listed in clause 5 (sub-clause 5.1) hereof;

5.3.3. arranges for testing (a) technical product sample(s) for its/their conformity with the requirements of applicable standards from the List of Standards specified in Article 6 (clause 1) of these Customs Union Technical Regulations and assesses subsequent test report(s);

5.3.4. carries out a factory inspection (Scheme 1c).

In case the manufacturer has a certified quality management system for the production or for the design and production of technical products, the certification (conformity assessment/approval) body shall assess the ability of this system to ensure stable production of the technical products under certification complying with the requirements of these Customs Union Technical Regulations;

5.3.5. issues a Conformity Certificate as per unified form to be approved by the Commission. The validity of Conformity Certificates for mass-produced technical products is limited to 5 years. There are no specific validity limitations on Conformity Certificates for a batch of technical products or an individual technical product;

5.4. The manufacturer (manufacturer's authorized person) and/or importer:

5.4.1. affixes the uniform product circulation mark covering the market of the Customs Union member states;

5.4.2. compiles a set of documents for the technical product after the conformity approval procedure is completed. Such set of documents shall include:

the documents specified in clause 5 (sub-clause 5.1) hereof;
the test report(s);
the factory inspection report; and
the Conformity Certificate.

5.5. The certification (conformity assessment/approval) body shall carry out the follow-up inspection of the certified technical product through sample testing at an accredited testing laboratory (centre) and/or factory inspection (Scheme 1c).

6. The declaration of conformity for a technical product (Schemes 1d, 2d, 3d, 4d and 6d) is carried out on the basis of:

6.1. on-site evidence (Schemes 1d and 2d):

- testing of the technical product (applies to a batch of technical products or an individual technical product) (Scheme 2d);
- testing of the technical product and carrying out production oversight by the manufacturer (applies to mass-produced technical products) (Scheme 1d);

6.2. evidence obtained with the participation of an accredited testing laboratory (centre) and/or quality management certification body included in the Customs Union Common Register of Certification Bodies and Testing Laboratories (Centres) (Schemes 3d, 4d and 6d):

- testing of the technical product (applies to a batch of technical products or an individual technical product) (Scheme 4d);
- testing of the technical product and carrying out production oversight by the manufacturer (applies to mass-produced technical products) (Scheme 3d);
- testing of the technical product, certification of the quality management system for the production or for the design and production of technical products and carrying out production oversight by the manufacturer (applies to mass-produced technical products) (Scheme 6d).

6.3. The declaration of conformity for mass-produced technical products is carried out by the manufacturer (manufacturer's authorized person) under Schemes 1d, 3d and 6d.

The declaration of conformity for a batch of technical products (an individual technical product) is carried out by the manufacturer (manufacturer's authorized person) and/or importer under Schemes 2d and 4d.

7. When a technical product is subjected to declaration of conformity under Schemes 1d and 2d:

7.1. The manufacturer (manufacturer's authorized person) and/or importer:

7.1.1. compiles a set of documents proving the conformity of the technical product with the requirements of these Customs Union Technical Regulations. Such set of documents shall include:

- the Technical Specifications (is any);
- the operation manuals;
- a list of standards whose requirements are fulfilled by this technical product out of the List of Standards specified in Article 6 (clause 1) of these Customs Union Technical Regulations;
- the test report(s) from a testing laboratory (centre) selected by the manufacturer (manufacturer's authorized person) and/or importer;
- the Conformity Certificate (is any);
- the Manufacturer's Declaration of Conformity (is any) (applies to a batch of technical products or an individual technical product) (Scheme 2d);
- the contract (supply contract) or shipment documents (for a batch of technical products or an individual technical product) (Scheme 2d);

7.1.2. makes identification of the technical product by establishing identity of its features with the criteria specified in Article 1 of these Customs Union Technical Regulations, provisions of Article 5 of these Customs Union Technical Regulations and documents listed in clause 7.1 (sub-clause 7.1.1) hereof;

7.2. The manufacturer:

carries out production oversight and takes all necessary measures to ensure that the production process secures the conformity of the technical product with the requirements of these Customs Union Technical Regulations (Scheme 1d).

The requirements to the production and production oversight processes as well as the oversight results shall be documented (as per form to be established by the manufacturer);

7.3. The manufacturer (manufacturer's authorized person) and/or importer:

7.3.1. issues a written Declaration of Conformity stating that the technical product in question complies with these Customs Union Technical Regulations, with such Declaration of Conformity to be made as per unified form to be approved by the Commission, and affixes the uniform product circulation mark covering the market of the Customs Union member states;

7.3.2. includes the Declaration of Conformity in the set of documents for the technical product listed in clause 7.1 (sub-clause 7.1.1) hereof after the conformity approval procedure is completed.

8. When a technical product is subjected to declaration of conformity under Schemes 3d, 4d and 6d:

8.1. The manufacturer (manufacturer's authorized person) and/or importer:

8.1.1. compiles a set of documents for the technical product that shall include:

the Technical Specifications (is any);

the operation manuals;

a list of standards to whose requirements this technical product shall comply with out of the List of Standards specified in Article 6 (clause 1) of these Customs Union Technical Regulations;

the contract (supply contract) or shipment documents (for a batch of technical products or an individual technical product) (Schemes 3d and 4d);

the Certificate of Conformity (or its copy) of the quality management system for the production or for the design and production of technical products (Scheme 6d);

8.1.2. makes identification of the technical product by establishing identity of its features with the criteria specified in Article 1 of these Customs Union Technical Regulations, provisions of Article 5 of these Customs Union Technical Regulations and documents listed in clause 8.1 (sub-clause 8.1.1) hereof;

8.1.3. arranges for testing (a) technical product sample(s) for its/their conformity with the requirements of applicable standards from the List of Standards specified in Article 6 (clause 1) of these Customs Union Technical Regulations;

8.2. The manufacturer:

carries out production oversight and takes all necessary measures to ensure that the production process secures the conformity of the technical product with the requirements of these Customs Union Technical Regulations (Schemes 3d and 6d). The requirements to the production and production oversight processes as well as the oversight results shall be documented (as per form to be established by the manufacturer);

takes all necessary measures to ensure that the production process and stable functioning of the quality management system for the production or for the design and production of the technical product secure the conformity of the technical product with the requirements of these Customs Union Technical Regulations (Scheme 6d);

8.3. The manufacturer (manufacturer's authorized person) and/or importer:

8.3.1. issues a written Declaration of Conformity stating that the technical product in question complies with these Customs Union Technical Regulations, with such Declaration of Conformity to be made as per unified form approved by the Commission, and affixes the uniform product circulation mark covering the market of the Customs Union member states;

8.3.2. compiles a set of documents for the technical product after the conformity approval procedure is completed. Such set of documents shall include:

the documents specified in clause 8.1 (sub-clause 8.1.1) hereof;
the test report(s);
the Declaration of Conformity.

9. Any Declaration of Conformity is subject to registration in accordance with the legal provisions of the Customs Union. A Declaration of Conformity enters into force on the date of its registration.

The validity of Declarations of Conformity for mass-produced technical products is limited to 5 years. There are no specific validity limitations on Declarations of Conformity issued for a batch of technical products or an individual technical product.

10. When a technical product is subjected to certification (Schemes 1c, 3c and 4c) and the standards specified in Article 6 (clause 1) of these Customs Union Technical Regulations fail to be applied or exist:

10.1. The manufacturer (manufacturer's authorized person) and/or importer shall provide the certification (conformity assessment/approval) body with a set of documents for the technical product proving the conformity of the technical product with electromagnetic compatibility requirements of these Customs Union Technical Regulations. Such set of documents shall include:

the Technical Specifications (is any);
the operation manuals;

a description of adopted technical solutions proving that electromagnetic compatibility requirements of these Customs Union Technical Regulations are observed;
the contract (supply contract) or shipment documents (for a batch of technical products or an individual technical product) (Schemes 3c and 4c);

10.2. The manufacturer takes all necessary measures to ensure that the production process is stable and secures the conformity of the manufactured technical products with the requirements of these Customs Union Technical Regulations;

10.3. The certification (conformity assessment/approval) body:

10.3.1. carries out sampling;

10.3.2. makes identification of the technical product by establishing identity of its features with the criteria specified in Article 1 of these Customs Union Technical Regulations, provisions of Article 5 of these Customs Union Technical Regulations and documents listed in clause 10 (sub-clause 10.1) hereof;

10.3.3. carries out conformity approval procedures to make sure that the technical product complies with the immediate electromagnetic compatibility requirements of these Customs Union Technical Regulations.

In so doing, the certification (conformity assessment/approval) body shall:

determine specific electromagnetic compatibility requirements to be applied to the technical product under certification on the basis of electromagnetic compatibility requirements stipulated by these Customs Union Technical Regulations and the conditions of electromagnetic environment in which this technical product is intended to be used;

analyze the manufacturer's technical solutions proving that electromagnetic compatibility requirements of these Customs Union Technical Regulations are observed;

select from the List of Standards specified in Article 6 (clause 2) of these Customs Union Technical Regulations the standards specifying test and measurement methods or, in case such standards fail to exist, determine control, measurement and test methods to be used for assessing the conformity of the technical product with the specific electromagnetic compatibility requirements;

arrange for testing the technical product and assess subsequent test report(s);

10.3.4. carries out a factory inspection (Scheme 1c);

In case the manufacturer has a certified quality management system for the production or for the design and production of technical products, the certification (conformity assessment/approval) body shall assess the ability of this system to ensure stable production of the technical product under certification complying with the requirements of these Customs Union Technical Regulations;

10.3.5. issues a Conformity Certificate as per unified form as approved by the Commission.

The validity of Conformity Certificates for mass-produced technical products is limited to 5 years. There are no specific validity limitations on Conformity Certificates issued for a batch of technical products or an individual technical product;

10.4. The manufacturer (manufacturer's authorized person) and/or importer:

10.4.1. affixes the uniform product circulation mark covering the market of the Customs Union member states;

10.4.2. compiles a set of documents for the technical product after the conformity approval procedure is completed. Such set of documents shall include:

the documents specified sub-clause 10.1 hereof;
the test report(s);
the factory inspection report; and
the Conformity Certificate.

10.5. The certification (conformity assessment/approval) body carries out the follow-up inspection of the certified technical product through sample testing at an accredited testing laboratory (centre) and/or factory inspection (Scheme 1c).

11. At the manufacturer' discretion, when fixed (immovable) assemblies are subjected to conformity approval procedures, an expert assessment of the technical documentation covering the observance of electromagnetic compatibility shall be carried out, and a combination of calculation and experiment methods shall be used. The respective documented results shall be included in the set of documents for the technical product.

12. The set of documents for the technical product shall be kept in custody within the territory of the Customs Union member states:

if for a (mass-produced or individual) technical product – by the manufacturer (manufacturer's authorized person) for at least 10 years since the date when this technical product ceases to be produced or is taken out of production;

if for a batch of technical products – by the importer or manufacturer's authorized person for at least 10 years since the date when the last batch item is sold.

Article 8. Affixing the Uniform Product Circulation Mark Covering the Market of the Customs Union Member States

1. A technical product that complies with electromagnetic compatibility requirements of these Customs Union Technical Regulations and passed conformity approval procedures according to Article 7 hereof must bear the uniform product circulation mark covering the market of the Customs Union member states.

2. The uniform product circulation mark covering the market of the Customs Union member states shall be affixed prior to putting a technical product into circulation on the market.

3. The uniform product circulation mark covering the market of the Customs Union member states shall be affixed on each unit of the technical product by any means ensuring a clear and distinct image within the entire service life of the technical product and shall also appear in the operation manuals attached thereto.

4. It is allowed that, in case it is impossible to affix it directly on a technical product, the uniform product circulation mark covering the market of the Customs Union member states appears only on the technical product package and in the attached operation manuals.

5. A technical product may bear the uniform product circulation mark covering the market of the Customs Union member states only if it complies with the requirements of all applicable technical regulations of the Customs Union and if such technical regulations provide for this mark to be affixed.

Article 9. **Saving Clause**

The Customs Union member states shall take all measures to ensure that technical products failing to comply with electromagnetic compatibility requirements of these Customs Union Technical Regulations are restricted, banned or withdrawn from circulation within the common customs territory of the Customs Union.



Annex 1
to the Customs Union Technical Regulations
“Electromagnetic Compatibility of Technical Products”
(CU TR 020/2011)

TYPES of technical products passive in terms of electromagnetic compatibility which do not fall within the Customs Union Technical Regulations “Electromagnetic Compatibility of Technical Products” (CU TR 020/2011)

1. Wires, cords, cables and cable assemblies.
2. Technical products that contain only resistive load and have no automatic switching devices, e. g. electric heaters for household use that have no thermostats or fans.
3. Electric batteries and accumulators and lighting equipment powered by them with no active electronic circuits.
4. Headsets and speakers with no amplifying function.
5. Protective equipment generating transient electromagnetic disturbances of short duration (less than 1 second) as a result of its actuation in case of short circuit or abnormal situation in the electric circuit, with such protective equipment containing no safety devices (emergency cutout devices) with active electronic parts.
6. High-voltage equipment whose internal sources of electromagnetic disturbances are caused only by localized insulation defects (e. g. high-voltage field magnets or high-voltage transformers) provided that the said equipment contains no active electronic parts.
7. Capacitors, e. g. capacitors for power factor correction.
8. Induction motors.
9. Quartz-crystal timepieces (with no extra functions, e. g. radio reception).
10. Incandescent lamps.
11. Plugs, sockets, fuses, switches and automatic switches with no active electronic circuits.
12. Passive aerials for radio and television reception.

Annex 2
to the Customs Union Technical Regulations
“Electromagnetic Compatibility of Technical Products”
(CU TR 020/2011)

TYPES of electromagnetic disturbances generated by a technical product or influencing a technical product which falls within the Customs Union Technical Regulations “Electromagnetic Compatibility of Technical Products” (CU TR 020/2011)

1. Low-frequency conductive electromagnetic disturbances:

Long-term deviations in power supply voltage;
Sine distortions in power supply voltage;
Lack of voltage symmetry in three-phase power supply systems;
Fluctuations in power supply voltage;
Falls, breaks and surges in power supply voltage;
Frequency deviations in power supply systems;
Voltages of signals transmitted in power supply systems;
Direct current components in alternating current mains systems;
Induced low-frequency voltages.

2. Low-frequency radiated electromagnetic disturbances;

Magnetic fields;
Electric fields.

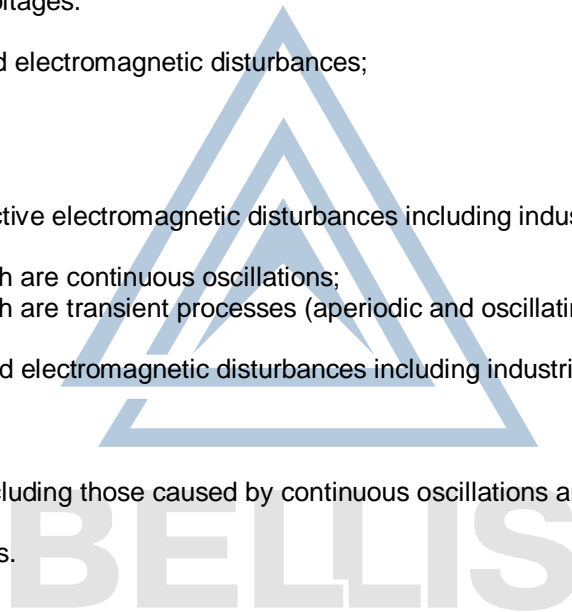
3. High-frequency conductive electromagnetic disturbances including industrial radio disturbances:

Voltages or currents which are continuous oscillations;
Voltages or currents which are transient processes (aperiodic and oscillating).

4. High-frequency radiated electromagnetic disturbances including industrial radio disturbances:

Magnetic fields;
Electric fields;
Electromagnetic fields including those caused by continuous oscillations and transient processes.

5. Electrostatic discharges.



Annex 3
to the Customs Union Technical Regulations
“Electromagnetic Compatibility of Technical Products”
(CU TR 020/2011)

LIST of technical products to be subjected to conformity approval in the form of certification in accordance with the Customs Union Technical Regulations “Electromagnetic Compatibility of Technical Products” (CU TR 020/2011)

1. Electric household appliances and devices:

for cooking, food storage and mechanization of kitchen work;
for processing (washing, ironing, drying and cleaning) linen, garments and footwear;
for room cleaning and tidying up;
for sanitary and hygienic use;
for maintaining and controlling indoor microclimate
for hair, nail and skin care;
for body heating;
for vibro-massage
playing, sports and gym equipment;
audio and video devices and radio and television receivers;
for sewing and knitting;
power supply units, chargers and voltage stabilizers;
for garden use;
electric pumps;
lighting equipment;
automatic switches with electronic control and protecting cutout devices with electronic control;
arc welding equipment.

2. Personal electronic computing machines (personal computers).

3. Technical products to be connected to personal electronic computing machines:

printers;
monitors;
scanners;
uninterruptible power supply units;
active acoustic systems powered from the alternating current mains;
multimedia projectors/viewers.

4. Electrified tools (electric hand-tools and portable tools).

5. Electric musical instruments.