

CONFIRMED
by the Conclusion of the
Customs Union Committee
18 October 2011 № 824



**TECHNICAL REGULATIONS
OF THE CUSTOMS UNION**

TP TC 011/2011

LIFT SAFETY

RUSCERTIFIC

CONTENTS

Introduction

Article 1.	Scope.....	3
Article 2.	Definitions.....	3
Article 3.	Placing on the market.....	4
Article 4.	Safety requirements.....	6
Article 5.	Compliance of the safety requirements	6
Article 6.	Conformity assessment of the lift and lift safety devices.....	7
Article 7.	Marking with a mark of production circulation in the market of the states-members of the Customs Union.....	13
Article 8.	Protective measures.....	13
Article 9.	Transitional periods.....	13
Annex 1	Safety requirements.....	14
Annex 2	The list of lift safety devices to be obliged to the compulsory certification.....	18
Annex 3	Application of lift and lift safety devices conformity assessment schemes	19

Introduction

1. This Technical Regulations of the Customs Union has been developed in accordance with the Agreement of the common principles and rules of technical regulation in the Republic of Belarus, the Republic of Kazakhstan and the Russian Federation of November 18, 2010.

2. This Technical Regulations of the Customs Union is developed with the purpose of establishing in the common customs territory of the Customs Union single mandatory for application and performance of the requirements for the lifts, providing the free movement of lifts manufactured in the treatment in the common customs territory of the Customs Union.

Article 1. Scope

1. This Technical Regulations of the Customs Union is applied to the lifts and the lift safety devices, the purpose for use and used in the territory of the states-members of the Customs Union.

The effect of this Technical Regulations of the Customs Union is applied to all lifts and lift safety devices (buffers, safety gears, overspeed governors, landing door locks, hydraulic safety devices).

The effect of this Technical Regulations of the Customs Union is not applied to lifts intended for use and used:

- in coal-mining;
- on ships and other floating facilities;
- on platforms for exploration and drilling in the sea;
- on aircrafts,

as well as for lifts:

- with a toothed-rack or screw mechanism lift;
- special military purposes.

2. This Technical Regulations of the Customs Union establishes requirements to the lifts and lift safety devices in order to protect the human life and health, property, as well as prevention of actions misleading purchasers (users) regarding their destination and safety.

Article 2. Definitions

In this Technical Regulations of the Customs Union the following terms and definitions are applied:

buffer is a device designed to limit the slowing of moving cabin, a counterweight to reduce the risk of personal injury or equipment failures while using cabin, a counterweight of the extreme working position;

hydraulic valve security is a hydraulic device (rupture) rigidly connected with hydraulic cylinder and intended for preventing the fall of the cabin;

landing door lock is an automatic device intended for locking the doors of the well;

service zone is a free place next to the lift equipment on which the staff of this equipment is located;

the manufacturer is a legal entity, including foreign, or the individual businessman carrying out on their behalf the manufacture and (or) realization of lifts, safety devices and are responsible for their compliance with the requirements of the Technical Regulations of the Customs Union;

the cabin is part of the lift designed to accommodate people and (or) goods when they are moved from one level to another;

the lift is a device, intended for movement of people and (or) goods from one level to another in the cabin moving along guides which are rigid and inclined to the vertical is not more than 15 degrees;

safety gears is a device intended to stop and hold the cabin (counterweight) on the guides in excess of the established speed and (or) in case of traction elements break;

upgrading of lifts is a measure for enhancing the safety and technical level of the operated lift up to the level established by the Technical Regulations;

nominal speed is a speed of lift cabin moving for which the lift is designed;

overspeed governor is a device designed to bring into action the mechanism of catches in excess of the established speed of cabin moving, a counterweight;

passport of the lift is the document containing information about the manufacturer, the date of the lift manufacture and the works number, main technical data and specifications of the lift and its equipment, information about the safety devices, service life of the lift as well as designed for the entry of data in the period of exploitation;

intended use is the use of lifts in accordance with its intended purpose designated by the manufacturer of lifts in operation documents;

the ground is a device intended for accommodation of the personnel performing repair work and service of the lift equipment;

standard is a lift with the major characteristics of the standard size of lifts;

standard size lifts are lifts which are characterized by single design solutions, which differ among themselves with characteristics of the load capacity, speed, rise and (or) the complete set of the lift equipment, drive, cabin, control systems as well as mutual location of equipment;

maintenance of lifts is a complex of operations to maintain the operation and the safety of the lift during its operation;

lift safety device is a technical means to ensure the safety of the lift;

supervisory control device is a technical device for remote control over the lift work and providing communication with the controller (the operator);

operation of the lift is the stage of the lift life cycle which is implemented, maintained and restored, includes intended use, storage in the period of operation, maintenance and repair.

Article 3. Placing on the market

1. Lifts, lift safety devices are issued in circulation on the market on the territory of the state-members of the Customs Union if they correspond this technical

regulations of the Customs Union.

2. Lifts, lift safety devices issued into circulation shall meet the requirements of safety during the entire period of service appointed by the manufacturer while use of the lift, lift safety devices for the purpose, fulfilling the requirements of the manufacturer documentation in accordance with the paragraph 2 of article 4 of this Technical Regulations.

3. Lifts, lift safety devices issued into circulation should be equipped with the accompanying documentation in the state language of the state, member of the Customs Union, and (or) in Russian.

Supporting documentation includes:

- application instructions;
- passport;
- installation drawing;
- principal electric scheme with the list of elements;
- principle hydraulic circuit (for hydraulic lifts);
- a copy of the certificate of the lift, lift safety devices (pursuant to paragraph 2.7 of article 6), fire doors (if available).

The application instructions include:

- instructions for installation containing instructions for installation, adjustment, regulations, procedure of the tests and inspections;
- instructions for use and measures to ensure the safety of elevators in the period of exploitation including implementation, intended use, maintenance, examination, inspection, repair, testing;
- the list of quick-wearing parts;
- methods for the safe evacuation of people from the cabin;
- instructions for withdrawal prior to disposal.

4. The lift should contain information in any way providing crisp and clear image during the whole service life of the lift containing: name of the manufacturer and / or its trademark; identification (working) number of lifts; year of manufacture.

This information is placed in the cabin or on the cabin, in the place accessible to service personnel.

5. The lift safety device should contain the information in any way providing crisp and clear image for total service life containing the name of the manufacturer and (or) its trademark; identification number of the device.

Article 4. **Safety requirements**

1. To ensure the safety of the lift in the design, manufacture, assembling and within a specified period of service means and (or) measures for meeting general requirements of safety and, subject to the appointment and terms of lift operation, special security requirements, specified in the Annex , are provided.

Energy efficiency class is indicated in the technical documentation for the lift and its marking.

2. To ensure the safety of mounted on the establishment lift before exploitation the following requirements shall be met:

2.1 lift installation is carried out by qualified personnel on lift installation in accordance with the documentation on the installation containing instructions for installation, setup and adjustment as well as in accordance with the project documentation on the lift installation;

2.2 conformity assessment and commissioning of mounted lifts are carried out in the order stipulated in article 6 of this Technical Regulations.

3. To ensure safety in the period of the designated lift service life the following requirements shall be met:

3.1 lift proper using , carrying out of maintenance, repair, inspection of the lift in accordance with the operating manual of the manufacturer;

3.2 performance of works on maintenance service and repair of the lift by qualified personnel;

3.3 conducting the conformity assessment in the form of technical examination of the lift in accordance with article 6 of this Technical Regulations;

3.4 on expiry of the service term the proper use of the lift is not allowed without conformity assessment with the purpose of identifying opportunities and conditions of extension of the term of lift proper use, upgrading or replacement taking into account the conformity assessment.

Conformity assessment is carried out in the procedure established by article 6 of the Technical Regulations.

4. In the absence in the passport of the lift, which was commissioned prior to the going into effect of the present Technical Regulations, information about the assigned service life, lift service life is 25 years from the date of putting it into operation.

5. Safety requirements for lift disposal are established by the legislation of the states-members of the Customs Union.

Article 5. **Compliance of the safety requirements**

The conformity of lifts and lift safety devices of this Technical Regulations of the Customs Union is ensured by the performance of the safety requirements directly or fulfillment of requirements of the interrelated with this Technical Regulations of the Customs Union standards.

Voluntary performance of the requirements of interrelated with this Technical Regulations standards testifies about the compliance of lifts and lift safety devices the requirements of this Technical Regulations.

Article 6. Conformity assessment of the lift and lift safety devices

1. Conformity assessment of the lift and lift safety devices indicated in Annex 2 the requirements of this Technical Regulations is performed in the form of compulsory certification prior to their putting into circulation on the territory of the states-members of the Customs Union.

2. Certification of the lift and lift safety devices is performed:

2.1 certification of the lift and lift safety devices indicated in the Annex 2 is performed by the Certification Body accredited in the determined order (further Certification Body) on the ground of the agreement with the applicant;

2.2 compulsory certification of the lift and lift safety devices designated for production turnout is performed on the scheme 1c indicated in the Annex 3. And the applicant is a lift manufacturer (authorized by the manufacturer person) or lift safety devices manufacturer;

2.3 compulsory lift certification of single production, lift safety devices of single production, lift from at a time manufacturing consignment and lift safety devices from at a time manufacturing consignment is performed on the scheme 3c (for at a time manufacturing consignment) and scheme 4c (for single manufacture) indicated in the Annex 3;

2.4 for compulsory certification the applicant shall hand in an application for certification carrying out in which there are the next data:

- name and location of the applicant;
- name and location of the manufacturer;
- information allowing identification of the certification subject;
- information about the place of certification subject testing;
- information about standards applied on the voluntary basis for providing the compliance of the lift and lift safety devices the requirements of this Technical Regulations;

2.5 to the application for certification documents confirming the compliance to the requirements of this Technical Regulations are enclosed:

a) for lift certification:

- technical description;
- operating manual (instruction);
- principal electric scheme with the list of elements;
- hydraulic scheme with the list of elements for the lift with hydraulic drive;
- testing and measure protocols, risk analysis performed by the manufacturer or on his behalf (if any);
- copies of compliance certification of the Technical Regulations for safety devices or, in case established by this Technical Regulations, testing and measure protocols;
- copy of the certificate of management system quality (if any) issued by the body accredited on the territory of the state-members of the Customs Union;

b) for certification of lift safety devices:

- technical documentation (descriptions, drafts, pictures);

- copy of the quality management system certificate (if any) issued by the body accredited on the territory of the state-member of the Customs Union;

2.6 at carrying out lift certification the applicant shall represent for testing mounted lift of single manufacturing, a standard sample of at a time manufacturing lift consignment or a standard sample of standard size lifts of the production chain and documents specified in paragraph 2.5 of subparagraph (a) of this article;

2.7 in carrying out of certification of lift safety devices, specified in Annex 2, the applicant shall submit to the Certification Body for testing on the territory of the states-members of the Customs Union:

- safety device of single production, a standard sample of the security devices of at a time manufacturing consignment, a sample of the standard size safety devices of production chain;

- componentry necessary for carrying out the tests of certifiable safety devices;

- the documents specified in paragraph 2.5 of subparagraph (b) of this article.

Lift safety devices manufactured by the enterprise-manufacturer of the lift used for the acquisition of the lifts for their own production and imported as spare parts for replacement of identical lift devices safety in the lifts of their own production, are not subject to mandatory certification. The order of testing such lift devices safety is set with the standards of the list approved by the Commission of the Customs Union.

The results of such testing are drawn with protocols. Copies of the protocols are represented after lift certification;

2.8 lift and lift safety devices identification specified in Annex 1 to this Technical Regulations is made by the Certification Body by means of establishing the identity of their characteristics and essential attributes;

2.9 the essential features of the lift include the following set of attributes:

- the cabin;

- the rigid guides;

- the tilting angle of the guide to the vertical is not more than 15 degrees;

- the drive for raising or lowering the cabin;

2.10 significant feature of the lift safety devices specified in Annex 2 shall be their functional purpose, arising from definitions of the relevant concepts specified in article 2 of this Technical Regulations.

Identification is carried out with the use of the presented by the applicant technical documentation.

The result of identification is the assignment of production or not to the object of technical regulation of this Technical Regulations;

2.11 researches (tests) and measurements in the mandatory certification of lifts and lift safety devices are conducted by accredited in the established order the testing laboratory (center);

2.12 the Certification Body within the period, defined by the contract with the applicant, shall carry out the certification in accordance with the chosen certification scheme and take the decision on granting compliance certificate or the refusal to issue it.

Compliance certificate and its annexes shall contain information on the type (model), the manufacturer, the country of the lift origin and the following

nodes and lift safety devices:

- winches;
- hydroelectric generator (for hydraulic lift);
- control system (controller);
- cabin door drive;
- landing doors;
- landing door locks;
- safety gears;
- overspeed governor;
- buffer;
- hydraulic safety device.

The decision on refusal to issue the compliance certificate shall contain a reasoned justification of the inconsistency of the lift or lift safety devices the requirements of this Technical Regulations.

After eliminating this inconsistency the applicant shall re-apply in the Certification Body with the application for issuance of the compliance certificate;

2.13 validity of the compliance certificates for lift and lift safety devices production chain should not exceed five years for the scheme 1C, specified in Annex 2 to this Technical Regulations.

For lifts and lift safety devices issued by the manufacturer within the term of validity of the compliance certificate for production chain, the compliance certificate is valid during the whole lift service life.

For lifts and lift safety devices of single manufacture, lifts and lift safety devices of at a time manufacturing consignment the compliance certificate, issued by schemes 3c and 4c described in Annex 3 to this Technical Regulations, is valid up to the expiry date of the lift;

2.14 on the expiration of the term of the compliance certificate validity to the production chain of lift and lift safety devices the applicant may apply to the Certification Body for obtaining the compliance certificate in the order established by this article or apply to the Certification Body that issued this certificate with the application for extending the validity term of the compliance certificate. The validity of the compliance certificate with the consideration of the scheme 1c, specified in Annex 3 to this Technical Regulations, and may be extended up to five years by the decision of the Certification Body carried out the previous certification, on the basis of the information analysis of the applicant and of the results of the inspection control of the certified object of certification (in case of certification according to the scheme 1c).

For extension of the period of the compliance certificate validity of the applicant shall submit to the Certification Body an application for extension of validity period of the compliance certificate to which information is supplied, containing data about the fact that since the last inspection control no changes have been amended in the design of the certified lift and lift safety devices.

The Certification Body on the basis of the information analysis provided by the applicant and the results of the inspection control shall take the decision on the extension or refusal to extend the expiry date of the compliance certificate and inform the applicant about the decision taken in time, not exceeding 10 days from the day of

making a decision. The decision on refusal to extend the term of the certificate validity shall contain a reasoned justification of the lift and lift safety devices inconsistency to the requirements of this Technical Regulations.

Information about the extension or refusal to extend the term of the compliance certificate validity shall be sent to the Certification Body in a period not exceeding 10 days from the day of adopting the decision, in the Bodies of State Control (Supervision), authorized to carry out control over observance of requirements of this Technical Regulations;

2.15 the applicant shall be obliged to notify the Certification Body that issued the compliance certificate about the changes made in the design of the lift safety devices specified in Annex 2, and also about changes in the design of the lift affecting its safety.

The Certification Body shall carry out the analysis provided by the applicant documentation and make a decision on re-registration of the lift compliance certificate with changed structure and (or) the lift safety devices or the need to conduct new lift testing and / or lift safety devices;

2.16 Certification Body shall suspend the validity of the compliance certificate (according to the scheme 1c) in case of the requirements violation established by paragraph 2.15 of this article, and (or) in case of negative results of the inspection control over certified products;

2.17 in the release into circulation of products on the territory of the state-members of the Customs Union the set of the documents should be stored:

- the lift and lift safety devices shall be at the manufacturer for a period of not less than 10 years from the date of withdrawal (termination) the production of lifts;
- the lift consignment and lift safety devices (a single product) shall be at the seller (the supplier) for a period of not less than 10 years from the date of the last production from the consignment (single product).

Copies of the documents used in the lift certification for proper compliance with the requirements of the Technical Regulations, and compliance certificates copies should be kept by the Certification Body issued the compliance certificate within the period of the compliance certificate validity and within five years after the end of its validity term;

2.18 set of documents submitted for certification is performed in the state language of the state-member of the Customs Union and (or) in Russian.

3. Conformity assessment of the mounted on the establishment lift prior putting into operation to the requirements of this Technical Regulations is carried out in the form of the lift compliance declaration according to the scheme 4d, specified in Annex 3 of this Technical Regulations, in the following order:

3.1 the lift compliance declaration is performed on the basis of own proofs and evidence obtained with the participation of accredited test laboratory (center).

As own evidence the protocol of verification the lift operation is used, after the installation of the lift, the passport, the installation draft of the mounted lift and project documentation for lift installation.

Lift installation draft shall contain the data and dimensions necessary for checking the lift mounting compliance to the requirements of this Technical

Regulations. The draft shall specify the types and cuts (with dimensions) including wells of the machine and block premises, offering information about the location and mutual connections of the lift parts and also lift loads to the construction of the building (structure);

3.2 application is submitted in an accredited testing laboratory (center);

3.3 accredited testing laboratory (center) shall conduct inspections, investigations, tests and measurements in the time periods specified in the contract with the applicant. When the following is made:

- checking of the lift equipment installation compliance to documentation for installation and project documentation on the lift installation in the building (construction);

- checking of the lift and lift safety devices operation;

- testing of electrical networks and electrical equipment insulation, visual and measuring control of the ground connection (neutral earthing) of the lift equipment;

- testing of haulage elements adhesion with rope-driving pulley (friction drum) and testing of the break-gear of the lift with electric drive;

- tightness testing of a hydraulic cylinder and a pipeline of the lift with hydraulic drive;

- testing of the cabin strength, haulage elements, suspension brackets and (or) cabin bearings, elements of their attachment;

3.4 the results of inspections, investigations, tests and measurements are arranged with the protocols, copies of which are attached to the lift passport.

Specialist accredited by the testing laboratory (center) shall make a note in the lift passport about the results of inspections, investigations, testing and measurement;

3.5 Declaration of the lift compliance to the requirements of this Technical Regulations shall be attached to the lift passport. The lift passport and the Declaration shall be subject to storage within a specified period of lift service;

3.6 prior to putting into operation the use of lift for people and (or) goods transportation is forbidden, except for the cases associated with its installation, commissioning and testing;

3.7 putting the lift into operation is carried out in the order established by the legislation of the state-member of the Customs Union.

4. Conformity assessment of the lift within a specified period of service is carried out in the form of technical examination not less than once a 12 months by the organization accredited (authorized) in the order, established by the legislation of the state-member of the Customs Union.

The result of the lift conformity assessment is documented and indicated in the lift passport.

5. The lift conformity assessment worked for its service life is held in the form of examination by the organization accredited (authorized) in the order established by the legislation of the state-member of the Customs Union;

5.1 the examination of the lift shall determine:

- the lift compliance worked for its service life to the general safety requirements

set out in Annex 1 of this Technical Regulations and (taking into account the lift appointment) special safety requirements set out in Annex 1 of this Technical Regulations;

- the necessary measures (including the lift modernization) and time of measures execution to ensure the lift compliance to the requirements this Technical Regulations;

5.2 the examination of the lift shall hold:

- definition of the lift equipment status including lift safety devices with the detection of defects, malfunctions, the degree of wear and corrosion;

- control of metal frame, cab suspension, counterweight as well as guides and clip elements;

- testing of electrical networks and electrical equipment insulation, visual and measuring control of the ground connection (neutral earthing) of the lift equipment.

Information about the examination is indicated in the lift passport;

5.3 on the basis of the examination results the conclusion is made including:

-conditions and possible extension of the lift use;

-recommendations for lift modernization or replacing.

Conformity assessment of the lift after modernization or replacing is carried out in the order established by paragraph 3 of this article.

When assessing the compliance of the upgrading lift additionally the following is carried out:

- inspection of compliance of the upgraded lift to the general safety requirements set out in Annex 1 of this Technical Regulations and (taking into account the appointment of the lift) special safety requirements set out in Annex 1 of this Technical Regulations;

- checking the compliance of the lift equipment installation of project documentation for upgrading;

- checking up of the recommendations for the lift upgrading specified in the conclusion on the results of the lift conformity assessment after service life.

The applicant on the basis of positive results of the conformity assessment shall arrange the compliance declaration and appoint a new date of lift service, make in the passport the note of service life and the lift technical readiness to be commissioned;

5.4 in the absence of the necessity for lift upgrading or replacement and the conditions of the operation term prolongation of proper lift using;

5.5 lifts put into operation prior to the taking effect of this Technical Regulations and spent the appointed term of service should be brought in compliance with the requirements of this Technical Regulations within a period not exceeding 7 years from the date of taking effect of this Technical Regulations.

Article 7. Marking with a mark of production circulation in the market of the states-members of the Customs Union

1. Lifts, safety devices relevant to the safety requirements and passed the conformity assessment procedure must be marked with a single mark of production

circulation in the market of the states-members of the Customs Union.

2. The marking with a single mark of production circulation in the market of states-members of the Customs Union shall be effected before the lift and safety devices release in the circulation in the market.

3. Single mark of production circulation in the market of states members of the Customs Union is marked on each lift and lift safety devices according to the approved list, as well as provided in the attached to it operational documents.

4. Lift and safety devices marking with a single mark of production circulation in the market of states-members of the Customs Union shall evidence their compliance with the requirements of this Technical Regulations.

5. A single mark of the production circulation in the market of states-members of the Customs Union shall be marked in any way providing accurate and clear drawing during the lift life durability.

Article 8. Protective measures.

1. States-members of the Customs Union are obliged to take all measures for restrictions, a ban for issuing the lifts and lift safety devices in the customs territory of the states-members of the Customs Union representing a danger to human life and health or property. The competent authority of the state-member of the Customs Union shall be obliged to notify the Commission of the Customs Union and the competent authorities of the other states-members of the Customs Union about the decision with the reasons for the decision and the evidence explaining the necessity of this measure.

2. The basis for the application of protection article the following cases can be:

- the failure to meet the requirements of this Technical Regulations of the Customs Union;
- improper use of interrelated with this Technical Regulations of standards, if these standards have been applied;
- other reasons for the ban of the lift issue in circulation in the market.

Article 9. Transitional periods

The lift compliance certificates, lift safety devices issued prior to the taking effect of this Technical Regulations by accredited Certification Bodies of states-members of the Customs Union, shall come into force in the territory of the state-member of the Customs Union, in which they were issued, up to the end of the validity period specified in the certificate.

Safety requirements

1. To ensure the safety of the lift the following general requirements must be met:

1.1 the inaccessibility of the lift equipment for users and strangers installed in:

- boxes for equipment;
- machine-room;
- block premise;
- lift well, except for the equipment located in the lift cabin;

1.2 measures for the protection of users and unauthorized persons from personal injury as a result of contact with the moving parts of the lift equipment;

1.3 protection devices, blocking to stop or preventing cabin movements, if the landing door is not shut, is not locked; the door for equipment maintenance, emergency door, observation and emergency hatches, access, the cabin door are not closed. This requirement shall not apply to the pre-opening of an automatic door at the approach of the cabin to the floor area and provided for the lift design mode of the cabin leading to the level of a floor area with loading/unloading;

1.4 availability of safe people evacuation out of the stopped cabin by the staff;

1.5 lift equipment available to the users and other persons must not have a surface with roughness representing danger to them;

1.6 the availability of means for the cabin lighting designed for people transportation, including failure in the supply of electricity;

1.7 lift equipment should correspond to the climate, seismic conditions, in which lift operation is expected;

1.8 the availability of means and (or) measures to prevent the fall of persons into the well from the floor and joined to the well grounds of the building (structure) and from the cabin;

1.9 dimensions of the lift door opening must ensure safe entrance into the cabin and exit to the floor ground, safe loading and unloading of the cabin;

1.10 the horizontal and vertical distance between the thresholds of the floor ground and the cabin must ensure safe entrance into the cabin and the exit;

1.11 the distance between the elements of the cabin and mines design must exclude the possibility of person penetration into the well when the well and cabin doors are open, as well as at cab being in the zone of floor ground;

1.12 the availability of means for preventing or reducing the effort of compression of a person or object that is on the way of automatically closing cabin or landing doors up to the limit, reducing the risk of injury;

1.13 cabin, traction elements, suspension and / or bearing of the cabin, counterweight, elements of their fastenings shall be capable of withstanding loads arising from the proper lift use and lift testing;

1.14 cabin equipment intended for people transportation, means for two-way connection with the help of which the passenger can call for help from outside;

1.15 the availability of means preventing the start of overburden cabin in normal operating mode;

1.16 the availability of means restricting the movement of the cabin outside extreme working levels (floor grounds);

1.17 the availability of means restricting the excess of the cabin standard speed while moving down to the limit reducing danger of personal injury or equipment damage;

1.18 safety gears and buffers when they are triggered should provide a slowdown of the cabin with the view of reducing the risk of injuries or equipment damage;

1.19 the provision of air exchange in the cabin designed for people transportation;

1.20 the size and position of the working areas for equipment maintenance must be sufficient to ensure the safe performance of works;

1.21 the availability of the safe access of the personnel to lift equipment;

1.22 the availability of safe entrance of the personnel onto the working ground in the well and (or) onto the roof of the cabin and exit from it;

1.23 the working ground and (or) the roof of the cabin (if necessary for personnel) shall withstand the weight of personnel;

1.24 the availability of means and measures reducing the risk of the personnel fall from the ground located in the well, and (or) from the roof of the cabin;

1.25 the availability of means for stopping and operating the cabin movement by the personnel for maintenance. When personnel moving in the well on the cabin the means for operating the movement at safe speed and stopping the cabin by the personnel should be provided. Designated means should be inaccessible for users and strangers;

1.26 the availability of measures and (or) means to prevent personnel injury being in the lift well with uncontrolled movement of lift parts;

1.27 the availability of measures and (or) means to prevent personnel injury with the lift equipment elements: belts, pulleys, blocks, prominent engine shaft, gears, sprockets, driving chains while movement;

1.28 the availability of means for creation of the service zones lighting level sufficient for the safe work of the personnel;

1.29 the availability of measures and (or) means to ensure the electrical safety of users, other persons and personnel in their impact on the machines for controlling the lift and (or) touching the conducting structures of the lift;

1.30 the limit of landing doors fire resistance must be installed in accordance with the requirements of fire safety;

1.31 the availability of measures ensuring the possibility of passengers safely to

leave the cabin in case of fire in the building (construction);

1.32 the requirements for safe lift disposal should be provided.

2. To ensure the safety of the lift intended, including for the transportation of the disabled people, the following special requirements are to be carried out:

2.1 cabin dimensions, cabin and landing doors are to ensure safe entrance and exit, as well as accommodation of the user at the wheelchair in the cabin;

2.2 cabin and landing doors designed for transportation of the user in the wheelchair without accompany are to be opened and closed automatically;

2.3 the cabin is to be equipped with at least one hand-rail, location of which should facilitate user access to the cabin and the device of control;

2.4 the horizontal and vertical distance between cabin thresholds and floor grounds shall provide the user a safe at the wheelchair entrance into the cabin and exit from it;

2.5 design and placement of the control devices and alarms (sound and light) in the lift cabin and at the floor ground shall provide security and the availability of lift for disabled people.

3. To ensure the safety of the lift providing the transportation of firemen while fire the following special requirements shall be carried out:

3.1 cabin size and the carrying capacity of the lift must ensure transportation of firemen with equipment for fire fighting and (or) rescuing people;

3.2 the control and alarm systems shall provide the lift operation under the direct control of firemen. Other modes of the lift control are to be switched off;

3.3 availability of the lift control mode, regardless of the work of other lifts, joined with the system of group control;

3.4 availability of visual information in the lift cabin and on the main (scheduled) floor about the location of the cabin and the direction of its moving;

3.5 the landing lift doors are to be fireproof, the limit of fire resistance is established in accordance with the requirements of the fire safety of buildings (structures);

3.6 the availability of measures and (or) means of firemen evacuation out of the cabin stopped between floors;

3.7 using in the design of the cabin materials that reduce the risk of fire hazard according to the applicable indicators of inflammability, combustibility, smoke-forming ability, flame spreading and toxicity when burning.

4. To ensure the safety of the lift designed to connect with device of the controller the following special requirements are to be carried out:

the availability for removing the signals to transfer from the lift to the device of controller over its operation work and the following information:

about operation of electric chains of security;

about the unauthorized landing door opening;

about an opening of the door (cover) of the lift control device without a machine room.

5. To ensure the lift safety designed for installation in the building, the construction in which deliberate lift equipment damage is possible the following special requirements shall be performed:

5.1 protecting designs of the cabin, as well as the decoration of the walls, the ceiling and the floor are to be made of materials that reduce the risk of their intentional damage or burning;

5.2 control devices, alarms, lighting in the cabin and on the floors shall be of a design and made of the materials reducing the risk of their intentional damage or burning;

5.3 a solid well fence is to be provided;

5.4 the availability of means taking the lift out from the «Normal operation» when an unauthorized opening of the well door in the absence of a cabin on the floor in the mode «Normal operation». Returning to the «Normal operation» shall be carried out by service personnel.

RUSCERTIFIC

The list of lift safety devices to be obliged to the compulsory certification

1. Buffer:

- energy accumulation type (excluding buffers of energy accumulation type with linear characteristics):

- with nonlinear characteristics;

- energy accumulation type with buffered return movement;

- energy dissipation type.

2. Hydraulic safety device (rupture valve).

3. Landing door lock.

4. Safety gears.

5. Overspeed governor.

RUSCERTIFIC

Contents and application of lift compliance schemes, lift safety devices to the requirements of the Technical Regulations “Lift safety”

1. Scheme 1c:

1.1 the accredited test laboratory:

shall carry out the testing and measurement of the lift parameters at the object of its installation or at the testing stand in the order and amount established by the standards of the list approved by the Commission of the Customs Union:

shall arrange the results of the testing and measurement with protocols.

1.2 Certification Body:

shall conduct the analysis of the object compliance certification, the results of the testing and measurement requirements of the Technical Regulations;

shall carry out the analysis of production condition;

shall prepare and issue the applicant the compliance certificate with the positive results of the analysis of information and evidentiary materials specified in article 6 of this Technical Regulations, as well as with the positive results of testing and measurements made by an accredited testing laboratory;

shall carry out the inspection control of the certified object of certification.

The frequency of inspection control is set by the Certification Body but not less than once a year.

2. Scheme 3c (for at a time producing consignment) and Scheme 4c (for a single manufacturing):

2.1 the accredited test laboratory:

shall carry out the testing and measurement of the lift parameters at the object of its installation or at the testing stand in the order and amount established by the standards of the list approved by the Commission of the Customs Union;

shall arrange the results of the testing and measurements with protocols;

2.2 Certification Body:

shall conduct the analysis of the object compliance certification, the results of the testing and measurement requirements of the Technical Regulations;

shall prepare and issue the applicant the compliance certificate with the positive results of analysis of information and evidentiary materials specified in article 6 of this Technical Regulations, as well as with the positive results of testing and measurements performed by an accredited test laboratory.

3. Scheme 4d (the scheme of declaring):

3.1 the applicant:

shall prepare its own evidence designated in article 6 of this Technical Regulations;

shall apply to an accredited testing laboratory (center) for carrying out the conformity assessment in the form of technical inspection of the lift;

3.2 the accredited test laboratory (center):

shall carry out the conformity assessment in the form of technical inspection of the lift;

shall arrange the act of technical inspection of the lift;

3.3 the applicant on the basis of own proofs and positive results of technical examination shall arrange the compliance declaration.

RUSCERTIFIC