Federal Ecological, Technological and Atomic supervision Service

Basic principles of Permit issuing for use of the equipment for explosive atmospheres at hazardous production facilities (Rostekhnadzor)
ROSTEKHNADZOR WITHIN THE SYSTEM of FEDERAL EXECUTIVE BODIES

STRUCTURE AND POWERS OF THE SERVICE
PRESIDENT OF THE RUSSIAN FEDERATION

CHAIRMAN OF THE GOVERNMENT OF THE RUSSIAN FEDERATION

VICE CHAIRMAN OF THE GOVERNMENT OF THE RUSSIAN FEDERATION

MINISTRIES

Federal services and federal agencies that are governed by the Government of the Russian Federation

Federal Ecological, Technological and Atomic Supervision Service Rostekhnadzor

MINISTRIES

Federal services and federal agencies that are governed by the President of the Russian Federation
Rostekhnadzor organized structure

CENTRAL BODY

- Functional departments
- Atomic supervision departments
- Technological supervision departments

LOCAL BODIES

- Interregional local bodies for atomic and radiation safety supervision
- Technological and ecological supervision departments

LOWER ORGANIZATION

- Research and technology supporting organizations
- Analytical laboratories
Federal Ecological, Technological and Atomic supervision Service is the following bodies:

- state safety regulation body when using atomic power;
- authorized body in the field of the production safety;
- state mining supervision body;
- state energy supervision body;
- state building supervision body;
The main purpose of Rostekhnadzor activities

Safety assurance of hazardous production facilities, power industry facilities, atomic power facilities, staff of these facilities, population and environment against technogenic emergencies
Federal Ecological, Technological and Atomic Supervision Service exercises following powers in the stated field of activity:

- **supervision and control of compliance to the legislation of the Russian Federation**;
- **state registration of hazardous production facilities**;
- **licensing the types of activities under responsibility of the Service**;
- **issue of Permit for use of the technical devices at hazardous production facilities**.
Fields of Rostekhnadzor supervision and control activities

- **supervision in the industrial safety at hazardous production facilities**;
- **mining supervision on the compliance to the requirements of safe operation associated with the use of subsurface resources with the purpose of mineral extraction and construction of the subsurface facilities**;
- **fire supervision in underground mines**;
- **Supervision on nuclear, radiation, technical and fire safety at the facilities using atomic energy (integrated)**;
- **energy supervision**;
- **supervision on hydrotechnic facilities safety**;
- **building supervision**;
- **licensing supervision**;
- **preventive supervision (issue of the Permit)**.
COAL MINING INDUSTRY SUPERVISION
Underground mines classification by gas content

Nongaseous 88%
Gas hazardous 12%

137 underground mines in metal mining industry were under the state supervision in 2011
Underground mines classification by methane content

157 underground mines in coal mining industry were under the state supervision in 2011
In the field of coal and metal mining industry supervision
Rostekhnadzor has the following powers:

- Control and supervision on compliance with the industrial safety requirements when hazardous production facilities designing, building, operating, preserving and closing;
- Following activity licensing:
  - operation of explosion fire hazardous production facilities;
  - manufacture, storage and use of industrial explosives;
  - underground survey;
  - industrial safety examination;
- Registration of hazardous production facilities;
- Issue of the Permit for use of particular types of the technical devices at hazardous production facilities;
- Registration and approval of industrial safety examination reports of technical devices, project documentations associated with the operation of hazardous production facilities;
- Arrangement of the inspections to check the compliance of individuals and entities with the legislation of the Russian Federation, normative legal acts, articles and rules;
- Arrangement of the technical investigations of the circumstances and the causes of accidents
Normative documents on permitting activities


- **Administrative regulations of Federal Ecological, Technological and Atomic Supervision Service on the execution of state duty of the Permit issue for the use of the particular types of technical devices at hazardous production facilities** (approved by Federal Ecological, Technological and Atomic Supervision Service of 29.02.2008 № 112, registered in the Ministry of Justice of the Russian Federation of 19.03.2008, registration number № 11363)
Information on the manufacturer (supplier) of the device;
Acceptance tests report and acceptance certificate, information on the non-conformities removal, detected during acceptance tests;
Technical specifications;
Operations Manual;
Certificate (technical passport) of equipment (form, label);
Industrial Safety Examination Report of the equipment, the Certificate of Conformity issued by authorized certification body of Ex electrical equipment is submitted for Ex-equipment.
Permit for use of Ex equipment

ФЕДЕРАЛЬНАЯ СЛУЖБА
ПО ЭКОЛОГИЧЕСКОМУ, ТЕХНОЛОГИЧЕСКОМУ И АТОМНОМУ НАДЗОРУ

РАЗРЕШЕНИЕ № РРС 00-044300

На применение
Оборудование (техническое устройство, материал):
Трансформаторная подстанция ТРК95.ХХXX
с маркировкой взрывозащиты РВ ExdiaI.

Код ОКП (ТН ВЭД): 31 4879 (8504 33 000 0)
Изготовитель (поставщик): Фирма "T Machinery a.s."
(Чешская Республика).

Основание выдачи разрешения: Техническая документация, сертификат
соответствия МОС "Сертинум" № ROCC CZ-MЕ-92.Б02471 от 02.06.2011 г.,
протокол экспертизы технической документации, оценки конструкций
и сертификационных (периодических) испытаний № 119МЕ-2011
от 24.05.2011 г.

Условия применения:
1. Разрешено применение в рудниках и угольных шахтах,
в том числе опасных по газу и пыли, в соответствии с маркировкой
взрывозащиты, отраслевыми нормами, правилами безопасности
и инструкциями изготовителя.
2. Внесение изменений в конструкцию подстанции возможно
только по согласованию с Федеральной службой по экологическому,
технологическому и атомному надзору.
Срок действия разрешения до 14.07.2016

Дата выдачи 14.07.2011
Certificate of Conformity of Ex equipment
Legislative changes of the use of the technical devices in the Russian Federation


- Mandatory requirements to technical devices intended to use at hazardous production facility and assessment forms of their compliance with these mandatory requirements are specified according to technical regulation legislation of the Russian Federation.
- The use of the technical devices at hazardous production facilities is allowed after having been received the Permit issued by the federal executive body in the field of the production safety if the other assessment form of compliance of the technical devices intended to use at hazardous production facility and mandatory requirements to them are not specified by the technical regulations.
Technical regulations on machinery and equipment safety

THE LIST OF MACHINERY AND EQUIPMENT THAT ARE SUBJECT TO MANDATORY CERTIFICATION

Stripping and mining equipment, equipment for mine workings lining
• Shearers, power mining sets, powered support for longwall, air tools

Equipment for driving mine workings
• Road heading machines intended for operation in coal and rock, metal support for development drift

Equipment of shaft hoists and mine transport
• Mine flight conveyors, mine belt conveyers

Equipment for blasthole and well drilling, equipment for charging and stemming of blastholes
• Air drifts, pneumatic impact tools

Equipment for ventilation lighting and dust suppression
Mine fans, dust catching and suppression facilities, insulating independent apparatus with fixed oxygen (self-rescue breathing apparatus) (except the products for firemen), oxygen compressors, control devices
Technical regulations on safety of the equipment for use in explosive atmospheres

• According to these technical regulations the object of the technical regulation is the equipment for use in explosive atmospheres (machine, apparatus, fixed and portable installation, element of their control protection system, protective devices, instruments) that is used for generation, transportation, accumulation, measurement, control and transformation of energy.

• These technical regulations are applied to electrical and non-electrical equipment for use in explosive atmospheres.