



THE FEDERAL SERVICE FOR ECOLOGICAL, TECHNOLOGICAL AND  
ATOMIC SUPERVISION

LICENSE

Registration number CE-03-210-3982 dated 14 January, year 2016

The License is issued to closed joint stock company "RITVERC"  
("RITVERC" GmbH)

Legal address of License holder: Kurchatova street, 10  
Saint-Petersburg, 194223

Main state registration number of legal entity 1027801536377  
Tax payer identification number 7802001185

The License gives the right to **operate complex containing radioactive materials**

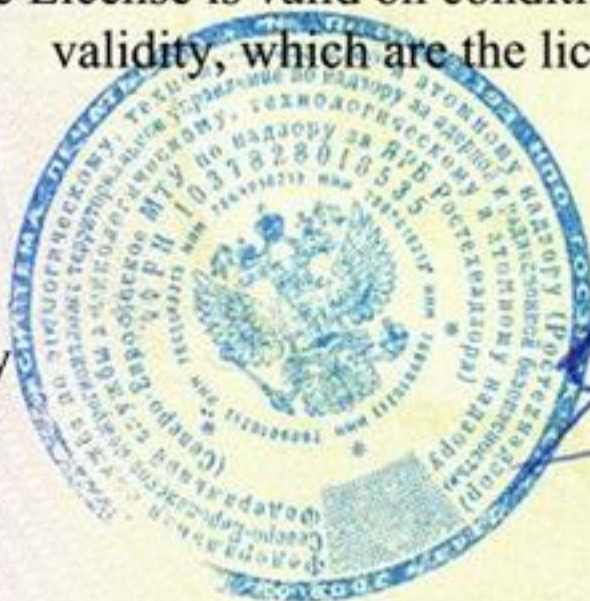
Objects on which or in relation to which the activity is carried out:  
**not related to nuclear installations complex, which contains radioactive materials**

Basis for License issue **application of "RITVERC" GmbH original # 320 dated 17 July, 2015;**  
solution of deputy head of the North-European Trans-Regional Territorial Administration for  
Surveillance over Nuclear and Radiation Safety of the Federal Service for Ecological, Technological  
and Atomic Supervision # 4076/B dated 13 January, 2016 year

License period till 14 January, 2021 year

The License is valid on condition that all applied terms of License  
validity, which are the license integral part, are met.

Name of head  
of licensing body



S.G. Perevoshchikov

Series A B № 371841



**The Federal Service**  
**for Ecological, Technological and Atomic Supervision**  
**North-European Trans-Regional Territorial Administration for Surveillance over nuclear**  
**and radiation safety of the Federal Service for Ecological, Technological and Atomic Supervi-**  
**sion**

### VALIDITY CONDITIONS

of license No. SE-03-210-3982 dated 14 January, 2016, which authorizes operation of radiation source, issued to CJSC "RITVERC".

Object, where the declared activity is performed: complex unrelated to nuclear installations and containing radioactive materials.

#### Section 1. Scope of License

1.1. License is issued on the basis of application and package of documents, which justify safety of declared activity, ref. No. 320 dated 17.07.2015

1.2. Validity of the present License covers nuclear activity, see Table:

Full name of License holder		Licensable activity		
Closed Joint-Stock Company "RITVERC", address: 194223, Saint-Petersburg, Kurchatov street, 10.		Operation of complex containing radioactive materials as related to handling of radioactive materials during execution of nuclear activities		
Radiation dangerous object, at which (in relation to which) licensable activity is performed	Authorized radiation sources, radioactive materials, radioactive wastes	Nuclear activities*	Restrictive conditions	
Building 6 (letter Д)	Room 53	Open and sealed radioactive sources on the basis of Na-22, Mn-54, Co-57, Co-60, Ni-63, Zn-65, Ge-68, Sr-85, Ag-110m, Sn-113, Sn-119m, Sn-121m, I-124, Ba-133, Cs-134, Cs-137, Ce-139, Sm-151, Eu-152, Gd-153, Yb-169, Am-241	Use of radioactive materials during: - execution of research and development works, manufacture of sealed and Open radioactive sources. Temporary storage.	Class 2 of works. In accordance with technical documentation.
	Room 54	Open and sealed radioactive sources on the basis of K-40, Fe-55, Ti-44, Y-88, Sr-90, Cd-109, I-125, I-131, Pm-147, Bi-207, Ra-226, Th-228, Th-232	Storage of radioactive wastes resulted from own activity	In protective safe of SZ type. In protective boxes and exhaust hoods in protective containers. Volume of liquid radioactive waste is 5 l max. Shelf life: - liquid radioactive wastes - 30 days max.; - solid radioactive wastes - 3 months max. Total activity reduced to group A is not more than $1 \times 10^8$ Bq



Building 6 (letter D)	Room 83	Sealed radioactive sources on the basis of radioactive nuclides Co-57; Co-60; Ni-63; Ge-68; Sr-85; Cd-109; Ag-110m; Sn-119m; Sn-121m; I-124; Ba-133; Cs-134; Cs-137; Sm-151; Gd-153; Yb-169. C-14; Na-22; K-40; Fe-55; Ti-44; Mn-54; Zn-65; Y-88; Sn-113; I-125; I-131; Eu-152; Sr-90; Ce-139; Pm-147; Bi-207; Th-228; Th-232; U-232; U-nat.; Am-241, Am-243; Ra-226; Kr-85; Pm-147	Spectrometer and radiometric measurements. Packing of finished products into transportation package Reloading of sealed radioactive sources in radioisotope instrument units. Storage	In accordance with technical documentation.  In portable protective glove box  On the racks, in transportation package. Total activity of sealed radioactive sources per year: -Kr-85-up to 50 Ku; -Pm-147- up to 5 Ku
	"VOLKSWAGEN T-5 TRANSPORTER" freight car, license plate number B349HC98; -"VOLKSWAGEN 7J0 TRANSPORTER" freight car, license plate number B997MO178; -"RENAULT MASTER" freight car, license plate number B543YA178	Excepted packages, packages of types A of transport categories I, II, III. Radionuclides in accordance with approval certificate	Transportation within the Russian Federation	In accordance with safety requirements stated in approval certificates
	"VOLKSWAGEN POLO" motor car, license plate number B968OM178	Excepted packages with radionuclides in accordance with approval certificate		
	Customers' objects	Sealed radioactive sources on the basis of radionuclides $^{22}\text{Na}$ , $^{55}\text{Fe}$ , $^{57}\text{Co}$ , $^{63}\text{Ni}$ , $^{85}\text{Kr}$ , $^{90}\text{Sr}$ , $^{109}\text{Cd}$ , $^{133}\text{Ba}$ , $^{147}\text{Pm}$	Installation (removal) of radioisotope instrument units. Change of sealed radioactive sources in radioisotope instrument units	In accordance with technical and operational documentation

\* Note: Handling of radioactive materials in the course of works not specified in the table is PROHIBITED.

1.3. The License cannot be transferred to other legal body, its validity does not cover other legal bodies carrying out activity together with the License holder, including works under the association agreement, as well as other legal bodies, one of founders of which is the License holder.

1.4. State surveillance over safety at execution of authorized activities as well as checking observance of the present License validity conditions rests upon the Radiation Dangerous Objects Inspection Department of North-European Trans-Regional Territorial Administration for Surveillance over nuclear and radiation safety of the Federal Service for Ecological, Technological and Atomic Supervision (hereinafter referred to as Inspection Department).



**Section 2. General requirements and conditions**

2.1. Within 30 days upon obtaining the License the License holder must:

- develop and implement measures aimed at meeting the present License validity terms;
- present information and copies of documents to the North-European Trans-Regional Territorial Administration for Surveillance over nuclear and radiation safety (hereinafter referred to as Administration) as well as to structural subdivision of the Administration, which supervises fulfilment of these conditions:
  - about measures on License introduction into effect;
  - about appointment of persons responsible for fulfilment of the License Validity Terms as well as for supervision of this process;
  - about measures providing availability of License copies and its validity terms in subdivisions of the License holder situated not at basic location of the License holder.

2.2. When carrying out authorized activity the License holder must:

2.2.1. provide observance of validity terms of authorization documents (licenses, authorizations, sanitary and epidemiological inspection reports etc.) of agencies regulating safety in the field of nuclear energy use, as well as their timely reissuance;

2.2.2. provide correspondence of design, construction, process and operational documentation as well as documents justifying safety of radiation source and activity authorized by License Validity Terms with requirements of normative documents in the field of nuclear energy use;

2.2.3. provide meeting of requirements of normative and operational documents (including safe operation limits) and present License Validity Terms;

2.2.4. ensure physical protection of radioactive source in accordance with the requirements of normative documents in the field of nuclear energy use, design and departmental documentation on physical protection ensuring;

2.2.5. ensure accounting and monitoring of radioactive source in accordance with the requirements of normative documents in the field of nuclear energy use, design and departmental documentation on radioactive source accounting and monitoring;

2.2.6. provide technical state monitoring, maintenance and repair of systems and elements, which have effect on providing safety of authorized activity in scope necessary for their serviceability maintaining. Implement measures on prolongation of their service life and operating life in compliance with "Requirements for justification of possibility of assigned lifetime prolongation of nuclear energy use objects" (NP-024-2000). Specified systems and elements must have necessary operational documents (passports, certificates, technical descriptions, operation manuals, etc.);

2.2.7. have a package of:

- legal and normative documents, which regulate the authorized activity carrying out;
- design, construction, process and operational documents, in accordance with which the authorized activity must be carried out;
- documents, which justify safety when carrying out the authorized activity;
- guideline materials (techniques, instructions, guidelines), in accordance with which the authorized activity must be carried out;



2.2.8. provide storage of design, process documents, on the basis of which authorized activity of nuclear energy use object is carried out, as well as storage of documents reflecting changes and additions to it introduced at all stages of the object life cycle up to the assigned final state of the object at its decommissioning;

2.2.9. appoint responsible persons in accordance with list of duties and workers, who must get permission of the Federal Service for Ecological, Technological and Atomic Supervision to carry out works in the field of nuclear energy use, that is developed in compliance with requirements of RF Government Regulation dated 03.03.1997 No.240;

2.2.10. maintain number and qualification of workers (personnel) and responsible persons, who carry out management of safe execution of authorized activity types, perform radiation hazardous works as well as provide radiation safety, for that:

- plan, train and improve qualification of the workers (personnel) in accordance with training system effective at the organization, and of the responsible persons at least once in three years;

- provide obtaining of authorizations by the workers (personnel) to carry out the works provided for by Order “On approval of administrative regulations for Federal Service for Ecological, Technological and Atomic Supervision rendering of state service for issuance of authorizations to carry out works in the field of nuclear energy use to workers of nuclear energy use objects” (Order of Federal Service for Ecological, Technological and Atomic Supervision No.721 dated 21.12.2011) with regard to deputizing;

2.2.11. in case of changes in requirements of effective normative documents or new normative documents are introduced

- perform analysis of effect of detected violations of the new requirements on safety;
- provide development and implementation of measures aimed at elimination and/or compensation of violations, which effect on safety;

2.2.12. monitor radiation environment and personnel radiation doses with regard to test levels and in accordance with set scope, type and periodicity of radiation monitoring;

2.2.13. update radiation safety quality assurance program at execution of authorized activity in accordance with requirements of normative documents;

2.2.14. review (correct, prolongate) radiation safety instructions, other organizational and administrative documents, which state the requirements on ensuring of radiation safety, physical protection, accounting and monitoring of radioactive materials and radioactive wastes when carrying out the activity authorized by License Validity Terms at least once in 5 years and when reviewing the normative legal acts and normative documents, which were used during their development;

2.2.15. submit to Administration and Inspection Department the requested information, materials and documents necessary for safety evaluation as well as provide the possibility of such information acquisition directly from the License holder workers (personnel) by representatives of the Federal Service for Ecological, Technological and Atomic Supervision (hereinafter referred to as Service);



2.2.16. submit to Administration and Inspection Department the list of organizations engaged for works execution and services rendering with indication of nature of these works as well as registration numbers of licenses issued to these organizations;

2.2.17. always inform the Administration and the Inspection Department of new data, revisions and additions introduced to the documents package, on the basis of which the given License was issued.

Any revisions that affect safety of radiation sources (change of radiation source components, changes in operating conditions of the radiation sources, development of new equipment, renovation of radiation source of its systems and elements etc.) must be reliably and timely reflected in the "Radiation source safety justification report".

Correspondence of Radiation Sources Safety Justification Report to real situation as related to justification of radiation source safety is maintained by means of necessary additions (changes) and their submission to the Administration and to the Inspection Department;

2.2.18. submit to Central Office of the Service and to Administration the information on violations that took place during execution of authorized activity, materials with results of their investigation in accordance with procedure and requirements set by the "Rules of investigation and record keeping of violations during handling of radiation sources and radioactive materials used in the national economy" (NP-014-2000).

Copies of submitted documents must be sent to Inspection Department at the same time.

2.2.19. upon receipt of orders the Service agencies (officials) related to elimination of detected violations of requirements of technical regulations, federal norms and rules in the field of nuclear energy use as well as of the present License Validity Terms the License holder must send necessary information about planned measures aimed at violations elimination in terms and at addresses specified in the order.

The License holder must as well send at specified addresses the information on carrying out of measures aimed at violations elimination and information about fulfilment of orders in terms specified;

2.2.20. submit information at address of the Inspection Department about planned repair, upgrade and putting into service of equipment used during carrying out of authorized activity and affecting radiation safety.

Inform the Inspection department about commencement date of works performed by outside agencies prior to commencement of works at the nuclear energy use object;

2.2.21. present annual reports about the state of radiation safety at address of the Inspection Department.

The reports must be submitted not later than on December, 01 and must contain information in accordance with "Regulation on components and contents of radiation safety state report in organizations using radionuclide sources" (RB-054-09).

Before January, 30 – information on submission of reports as per forms of state accounting and monitoring of radioactive materials and radioactive wastes to appropriate Information Analysis Centers;

2.2.22. inform the Inspection Department about planned or forced termination of activity in the field of nuclear energy use, particularly in view of impossibility or inexpediency of further intended use of radiation sources. Term: within 10 days from the moment of taking the decision about termination of activity in the field of nuclear energy use;



2.2.23. provide financial support of limit responsibility for losses and harm caused to legal bodies and individual persons by radiation effect when carrying out authorized activities;

2.2.24. Provide continuous insurance of civil responsibility for possible losses and harm caused by the radiation effects. The License holder must timely confirm availability of specified financial provision (insurance agreement and insurance policy) for Inspection Department and Administration, which issued the present License. The following requirements must be met at insurance activities execution:

- insurance enterprise that issued the insurance policy (or which concluded the insurance agreement) must have the license for insurance of civil liability of enterprises – sources of special danger and freedom of insurance of operating organizations civil liability;
- insurance events specified in the insurance policy (insurance agreement) must be in compliance with approved and agreed list of possible radiation accidents;

2.2.25. in case an authorized body or court takes a decision to reorganize the legal body, initiate a bankruptcy or liquidation proceeding in its respect, the head of the legal body must inform the Inspection Department and the Administration in written form about beginning of reorganization, bankruptcy or liquidation proceeding (hereinafter referred to as special working conditions) not later than 3 days after the date of decision taking.

During special working conditions the legal body must perform unscheduled inventory taking of radiation sources. The legal body must inform the Inspection Department about terms and results of inventory taking.

2.3. Provide delivery of radionuclide sources, further usage of which is not anticipated, to specialized enterprises that have licenses for the given kind of activity in the context of their Validity Terms.

2.4. The following is prohibited for the License holder when carrying out authorized activities:

- operate the radiation sources with expired assigned operating life and the faulty technical equipment, which impacts the radiation safety;
- purchase or lease the radiation sources and radioactive materials to any legal bodies or individual persons, which don't have the Service licenses for carrying out respective activities in the field of nuclear energy use;
- operate radiation sources and radioactive materials, which have no compliance certificates (declarations) or which are not approved as per sanitary and epidemiological requirements, at nuclear energy use objects;
- enter into relations on obtaining and rendering services in the field of nuclear energy use that can affect safety of carrying out activities authorized for the License holder with legal bodies and individual persons having no Service license for carrying out respective activities in the field of nuclear energy use.

2.5. In case if the License holder supposes to continue carrying out of authorized activity upon termination of the present license, it is recommended to submit to Administration, which issued the present License, an application for license issuing for the next validity period together with package of justification documents in accordance with established procedure and not later **than 6 months** prior to License termination.



2.6. Any changes that can affect safety of radiation sources must be confirmed in the License Validity Terms.

Changes are introduced in the License Validity Terms in accordance with paras 29, 30 of "Regulation on activity licensing in the field of nuclear energy use" approved by order of RF Government dated 29.03.2013 No.270 (hereafter Regulation) according to procedure established in para 158 of "Administrative regulations for rendering of state service for activity licensing in the field of nuclear energy use by Federal Service for Ecological, Technological and Atomic Supervision" approved by the Order of Federal Service for Ecological, Technological and Atomic Supervision dated 08.10.2014 No.453 (hereafter Regulations).

The License holder can execute works with changed validity terms only after he receives documented change of the License Validity Terms from the Administration.

2.7. Authorized activity can be suspended based upon and in compliance with procedures provided in paras 33, 34 of the Regulation.

2.8. Termination of license validity (or cancellation) can be performed based on check (inspection) results based upon and in compliance with procedures provided in paras 35, 36, 37 of the Regulation in the order stated in para 129 of Regulations.

2.9. The License holder must ensure unhindered access to authorized activity objects for authorized representatives of the Service for performance of their duties. For the period of inspection done by the Service officials the License holder must provide safety meeting, appoint accompanying persons and (if required) provide individual protection means as well as personal dosimetry means.

2.10. The License holder must obey the following when carrying out authorized activity:

2.10.1. legislation of the Russian Federation, regulatory legal acts of the Russian Federation President and Government, federal norms and rules in the field of nuclear energy use;

2.10.2. criteria and requirements of radiation safety established by federal executive bodies, which perform state regulation of safety in the field of nuclear energy use by means of norms, rules, regulations, orders and other normative documents;

2.10.3. standards and other normative documents specifying requirements for carrying out of authorized activity and for respective objects;

2.10.4. radiation safety instructions and regulations effective at License holder objects, which are developed based upon and in compliance with requirements of above mentioned documents;

2.10.5. present License Validity Terms.

### Section 3. Special requirements and conditions

The License holder must:

3.1. carry out authorized activity with limitations and set safe operation limits in accordance with design documents and Section 1 of the present License Validity Terms;

3.2. eliminate reasonable observations of expert report on radiation source safety, reg. No.1-45/15 dated 28.12.2015:



- a) revise "Instruction No.1 on radiation safety and procedure of operations with radioactive materials", "Provision on procedure of radioactive wastes collection and disposal" in accordance with norms and rules in the field of nuclear energy use.
  - b) Bring the system for radioactive materials and radioactive wastes accounting and monitoring in CJSC "RITVERC" in compliance with the requirements of NP-067-11.
  - c) Bring the system of radioactive materials and radiation sources physical protection in CJSC "RITVERC" in compliance with the requirements of "Rules for physical protection of radioactive materials, radiation sources and storage facilities" (NP-034-15).
  - d) Revise organization quality assurance program in accordance with the requirements of NP-090-11.
- Submit the information on implementation of these provisions to Inspection Department before 31.03.2016.

Head of Radiation-Dangerous Objects Inspection Department of North-European Trans-Regional Territorial Administration for Surveillance over nuclear and radiation safety of the Federal Service for Ecological, Technological and Atomic Supervision



N.N. Bochkarev



## License Validity Terms Change Record

Change No.	Change date	Change basis	Paras of License Validity Terms with changes
1	2	3	4