



UECP
ROSATOM

**ENVIRONMENTAL
SAFETY
REPORT**

2021

FOREWORD

Public Environmental Safety Report 2021 is the fourteenth annual environmental report which was prepared voluntarily by Urals Electrochemical Plant Joint-Stock Company and addressed to the wide range of concerned parties. The report contains data on UECP JSC environmental activities, environmental safety of production and environmental impact.

Unfortunately, the last year 2021 turned out to be a hard time for everyone because of COVID-19 pandemic. Quarantine restrictions preventing from the virus spread had left traces on all businesses and industry players. Almost all public events, including environmental actions, have been cancelled or rescheduled. Nevertheless, it should be noted that UECP JSC has duly performed all environmental safety actions and completed all environmental obligations. The company presented nil or zero environmental impact, as before. All environmental regulations were observed.

2021

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This report contains additional information on the sport facilities located within Novouralsk urban district. It is common knowledge that Ural scenery is the ideal place for outdoor activities.

In winter, people are active in skiing, skating, snowboarding, tubing, sledding. In summer, citizens prefer water-based recreation. Many people are enthusiastic about sport fishing, boating and yachting.

Rich landscapes, mountain views and lots of rivers and lakes surrounding Novouralsk shall deepen the sport emotions.



UECP
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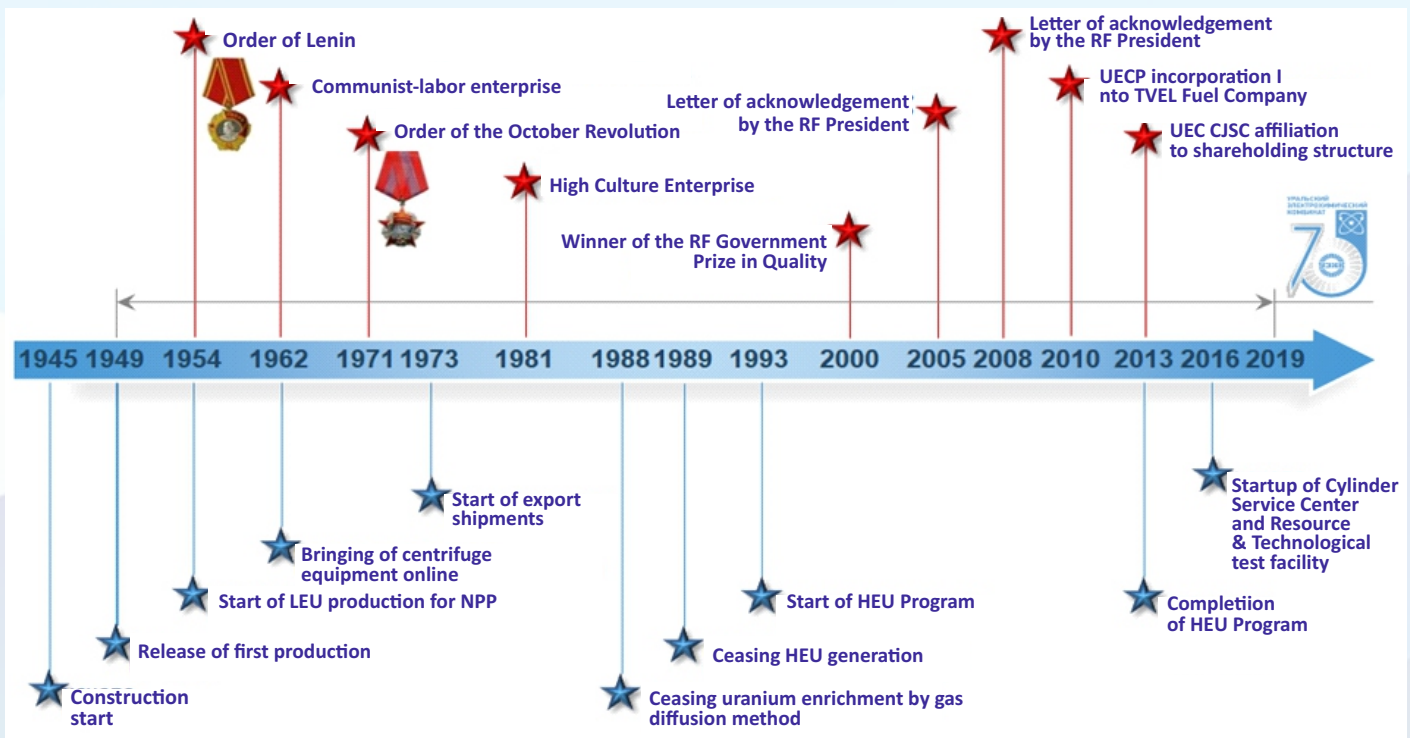


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UECP JSC background information and core business



The USSR Soviet of People's Commissars in 1945 took the decision to start the construction of gas diffusion plant in Sverdlovsk-44 located in Sverdlovsk region. The Plant was designed for producing highly enriched uranium (HEU) under the Soviet nuclear weapons program. Urals Electrochemical Plant came on line in 1949. It was the first in the USSR industrial company providing commercial uranium isotope separation using gas diffusion method. To meet the needs of nuclear power industry (reactors, offshore power plants, research reactors and nuclear power plant reactors) the production of low enriched uranium (LEU) started in 1954



The first in the world plant providing uranium enrichment by centrifuge method, started operation in 1962. It was the important step towards raising efficiency of UECP enrichment production. The well-established team of UECP experts and qualified personnel steadily providing flagship operation of enrichment production underpinned it. The plant reconstruction program started in 1966, and by 1988, centrifuges completely replaced the gas diffusion equipment. It made possible to reduce the power consumption of separation production by a factor of 10 resulting in twofold or threefold increase of enrichment capacity.



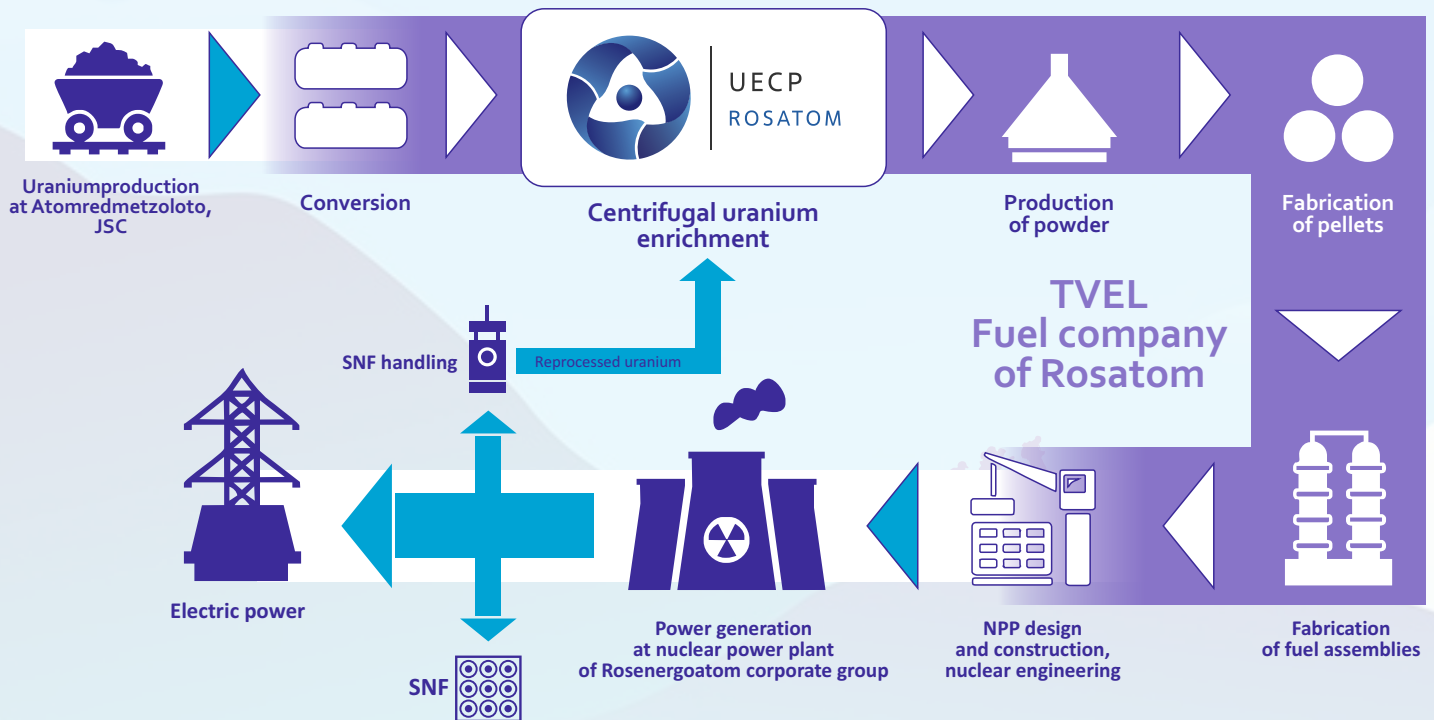


In the early seventies UECP entered the international market and since then, it has exported low enriched uranium to the companies in France, Germany, Belgium, England, the USA, South Korea, Sweden, Spain, Finland, Switzerland, Italy, Argentina. UECP ceased generation of weapon-grade uranium in 1989. Pursuant to intergovernmental agreements on reduction of nuclear weapons, UECP initiated HEU conversion into fuel for nuclear power plants in 1995. For this purpose, UECP developed and introduced the special HEU-LEU technology.

On August 15, 2008, Federal State-owned Unitary Enterprise Ural Electrochemical Integrated Plant came through restructuring and became Joint-Stock Company Ural Electrochemical Integrated Plant.

The company key milestone was its incorporation into ROSATOM TVEL Fuel Company in 2010. TVEL Fuel Company comprises separation-sublimation combine, gas centrifuge production, nuclear fuel fabrication and research & development clusters. It enabled further effective development of the Company, its production facilities, infrastructure and human resources.

UECP JSC Position in Rosatom Nuclear Fuel Cycle



As from 2015 in accordance with the Russian Federation law, the full commercial name of the Company is Urals Electrochemical Plant Joint-Stock Company (UECP JSC).

UECP JSC is located in the industrial area of Novouralsk city in Sverdlovsk region, 80 km north-west of Yekaterinburg. Two settlements share borders with the Company: Novouralsk city (about 81 000 residents) and Verkh-Neivinsky settlement (about 5 000 residents).

UECP JSC is one of the key players in the Russian nuclear fuel cycle, holding intermediate position between uranium mining and fuel fabrication for nuclear reactors.



At present UECP JSC is the largest uranium enrichment company not only in Russia, but also in the world. The Company enrichment production applies highly effective and reliable gas centrifuge technology. The following companies represent enrichment production of Russia and apply the same technology:

- Electrochemical Plant, Joint-Stock Company, (ECP), Zelenogorsk, Krasnoyarsk region
- Siberian Chemical Plant, Joint-Stock Company, (SCP), Seversk, Tomsk region
- Joint-Stock Company Angarsk Electrolysis Chemical Plant (AECP) Angarsk, Irkutsk region.

Natural uranium consists of three radioactive isotopes:



Today the most part of nuclear power reactors run on uranium fuel enriched in U-235. The Russian enriched uranium export contributes to balancing global energy mix and is of the same importance as the Russian gas and oil export.

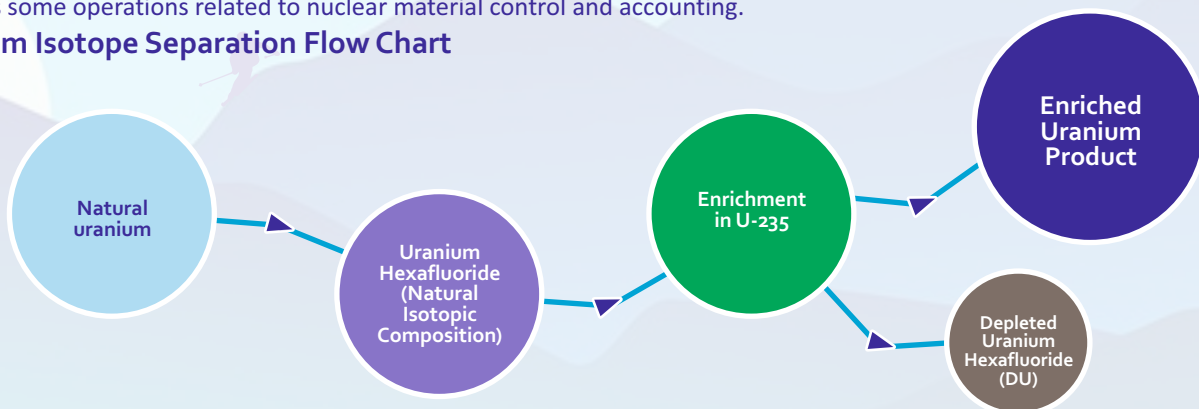
The heart of UECP JSC structure is the production cluster consisting of process shops 53, 54, 87, and directly associated subdivisions: analytical center (department 16), chemical metallurgical shop (shop 70), machinery revision shop (shop 19) and special product storage, transportation and control department (department 7). The gas centrifuge cascades are located in shops 53, 54, 87. "Chelnok" facility in shop 54 is used for transfer of uranium hexafluoride of required U-235 assay into the cylinders of foreign customers.

The chemical metallurgical shop deals with enrichment production waste processing (extraction, precipitation, vessel washing, U3O8 fluorination, solid radioactive waste conditioning, metal waste preparation), operation of process pulp filtration unit, preparation of solid radioactive waste delivery to State Unitary Enterprise "National operator for radioactive waste management" (SUE NO RWM). Machinery revision shop provides equipment decontamination and process equipment repair.

Analytical center performs analytical procedures and produces certified reference materials of uranium isotopic and chemical composition.

Special product storage, transportation and control department ensures nuclear material storage and transportation and performs some operations related to nuclear material control and accounting.

Uranium Isotope Separation Flow Chart



The natural uranium is converted into uranium hexafluoride to ensure enrichment process.

Enrichment in U-235 results in generation of enriched uranium product (EUP) and depleted uranium hexafluoride (DU).

EUP it delivered to the customer, and DU is delivered for storage and further processing.





2 Integrated management system

Environmental management forms a part of corporate management system with well-shaped organizational structure and goal to achieve the environmental policy objectives by means of implementing environmental programs.

Environmental management concept is based on sustainable development. The summit of state heads took place in 1992 in Rio de Janeiro. It was devoted to sustainable development of human society and nature, and adopted Agenda 21 with general provisions of the new concept suggested to all countries of the world. The summit concluded that environmental management shall be treated as the key dominant of sustainable development and the highest priority for industrial operations and business.

In 1993 in the course of the Uruguay Round negotiations devoted to establishment of the World Trade Organization, decision was taken to introduce the new environmental international standards.

International Standardization Organization (ISO) issued ISO 14000 standards specifying the concept of environmental management system.

UECP JSC management system



One of the key parameters of the Company sustainable development is the effectiveness of Quality management system (QMS) that covers the whole life cycle of products, from development to implementation, and ensures faultless operation of all production process chains. UECP JSC QMS has been constantly improved: from zero-defect production, complex quality control system to QMS implementation, certification and performance starting from 2004 according to ISO 9001.

The development of technology of enriched uranium transfer into the transport cylinders of international customers was completed in 1973.

Over the whole period of export operations, the Company received no product quality claims.





UECP JSC management system has been established and certified in accordance with international standards. It is maximally customer-oriented and focused on understanding the needs and expectations of all interested parties, continuous improvement of business processes and implementation of system approach to company management.

The Company management system (MS) is a part of UECP JSC corporate management system, and a part of TVEL Fuel Company corporate management system and Rosatom State Corporation MS arranged according to "the system of systems" principle. Integrated MS comprises Quality management system (QMS), Environmental management system (EMS), Occupational health & safety management system (OH&S MS), Energy management system (EnMS), and meets the requirements of ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 50001:2018 international standards.

UECP JSC management system has been certified against the following standards as part of Rosatom TVEL Fuel company integrated management system



- ISO 9001:2015
- ISO 14001:2015
- ISO 50001:2011
- ISO 45001:2018

The compliance was proved by the certificate № TIC 15 100 52672/10 - TIC 15 104 10699/10 - TIC 15 116 11266/10 - TIC 15 275 14075/10. The certificate was issued on 28.08.2018 and according to the results of advanced witness audit was renewed 20.10.2020 and certified by TÜV Thüringen, Jena, Germany certification body. Scope of certification: production, supply and storage of uranium enriched to less than 65% for power and research reactors; maintenance and test of shipping packaging sets for uranium hexafluoride.

Safety culture and Rosatom production system, financial management, legal affairs, asset management and other management areas are within the company MS.

Product quality and process safety assurance and improvement are the key issues of the Company operation and development.

UECP JSC MS certification history:

- 2004 – certification of conformity with ISO 9001:2000
- 2009 – certification of conformity with ISO 9001:2008
- 2010 – certification of conformity with ISO 14001:2004
- 2013 – certification of conformity with BS OHSAS 18001:2007
- 2014 – certification of conformity with ISO 50001:2011
- 2018 – certification of conformity with ISO 9001:2015, ISO 14001:2015
- 2020 – certification of conformity with ISO 45001:2018, ISO 50001:2018
- 2021 – certification of conformity with ISO 28000:2007

In 2020, UECP JSC accepted for execution ISO 19443:2018 "Quality management systems – Specific requirements for the application of ISO 9001:2015 by organizations in the supply chain of the nuclear energy sector supplying products and services important to nuclear safety (ITNS)". UECP JSC also commenced development, introduction and preparation for certification of UECP JSC security management system for the supply chain according to ISO 28000:2007 "Specification for security management systems for the supply chain".

STRATEGIC GOAL

ENSURING SAFE AND SUSTAINABLE DEVELOPMENT, MINIMIZATION OF PRODUCTION ENVIRONMENTAL IMPACT





Management system audits in UECP JSC subdivisions, subsidiaries and affiliates, vendors of services/products are conducted according to the schedule.

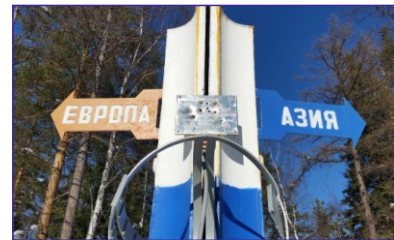
Therefore, at present UECP JSC integrated management system includes:

- Environmental management system focused on improvement of environmental safety procedures
- Quality management system focused on improvement of high quality product procedures
- Occupational health & safety management system introduced for the staff
- Energy management system focused on improvement of energy saving and conservation of natural resources.

Integrated management system is introduced and maintained in all UECP JSC divisions providing quality and operational safety at all stages of production.



"Cedar" (tourist club)



The tourist club was established in Novouralsk in 1965 at the Recreation Centre (RC). Soon the club was passed from the recreation center to the authority of city Committee on physical culture and sport and became sports section.

The first tours were arranged in the city and surroundings of Sverdlovsk region: on foot, on skis, by bicycles.

Organizational meeting of tourist club was held in 1958 where the club charter was approved. In 1959-63 the club organized a lot of tours, including difficult routes. The club members started collecting plants for a herbarium and minerals, making tourist songbooks, keeping chronicles.

In 1966 the city department of physical culture was granted the status of sports club named "Cedar". The tourist club was renamed as "Cedar" too.

Club tourists contributed greatly to studying natural objects of Novouralsk and its surroundings.

The following types of tourism are popular in Novouralsk: hiking, water and ski touring, mountaineering, trailering, bicycle touring, climbing.





3 UECP JSC Environmental Policy

Systematic mitigation of environmental and social impact is the key priority of UECP JSC environmental policy. When planning its activities, the Company takes into consideration the interconnection of environmental and production issues. UECP JSC employees are aware of their responsibility for reducing man-caused impact.

In pursuance of ROSATOM State Corporation environmental policy UECP JSC management complies with the following key principles:

- presumption of potential environmental hazard in planning and carrying out activities
- permanent readiness of UECP JSC management and personnel to prevent and mitigate emergency situations and other accidents
- coincidence of environmental, economic and social concerns of UECP JSC and population non-governmental organizations, governmental authorities and local authorities for the purpose of sustainable development and promotion of favorable environmental and ecological safety
- ensuring high environmental performance, mitigation of UECP JSC environmental impact and natural resources utilization at reasonable costs
- transparency and availability of the information related UECP JSC operations in the field of environmental protection and ecological safety.



UECP JSC main tasks in the field of environmental protection and ecological safety:

- comply with international, federal and regional legislation, rules and guidelines in the field of radiation and nuclear safety, environmental protection, sanitary-and-epidemiological well-being of population, civil protection in emergency situations of natural and man-made origin, and other UECP JSC commitments
- develop environment and radiation monitoring systems using advanced automatic equipment and software
- enhance resource- and energy efficiency of production
- ensure decommissioning of UECP JSC out-of-service nuclear facilities
- reduce the volume of radioactive and hazardous industrial waste
- constantly inform UECP JSC personnel, citizens and other interested parties of environmental and radiation situation and UECP JSC environmental impact
- continuously improve the integrated management system as required by ISO 9001, ISO 14001, OHSAS 18001, ISO 50001, IAEA GSR Part 2, IAEA GS-G-3.1.

UECP JSC environmental policy was first introduced on April 22, 2008 by UECP JSC General Director order. Since then the Company environmental policy has been annually revised and updated.

The current revision of UECP JSC environmental policy was introduced on January 10, 2019 by UECP JSC General Director order and was approved by ROSATOM State Corporation and TVEL JSC. The Company environmental policy is available in mass media and on the UECP JSC web-site.





4 UECP JSC basic environmental regulations

- Constitution of the Russian Federation
- Federal Law on Environmental Protection No 7-FZ of January 10, 2002
- Federal Law on Ecological Assessment No 174-FZ of November 23, 1995
- Federal Law on Ambient Air Protection No 96-FZ of May 4, 1999
- Water Code of the Russian Federation No 74-FZ of June 3, 2006
- Federal Law on Production and Consumption Waste No 89-FZ of June 24, 1998
- Federal Law on Sanitary and Epidemiological Well-being of Population No 52-FZ of March 30, 1999
- Federal Law on Radiation Safety of Population No 3-FZ of January 9, 1996
- Federal Law on Nuclear Energy Use No 170-FZ of November 21, 1995
- Federal Law on Radioactive Waste Management and Amendments to Certain Legislative Acts of the Russian Federation No 190-Z of July 11, 2011
- Federal Law on Underground Resources No 2395-1 of February 21, 1992
- Sanitary Rules SP 2.6.1.2523-09 of July 7, 2009 NRB-99/2009 Radiation Safety Standards
- Sanitary Rules SP 2.6.1.2612-10 of April 26, 2010 «Basic Sanitary Rules for Radiation Safety» (OSPORB-99/2010)
- "Requirements to enterprises on reduction of emissions of pollutants into the atmospheric air under unfavorable meteorological conditions", approved by the order of RF Ministry of Natural Resources No 811 dated 28.11.2019

Furthermore, the Company activities in the field of radiation, nuclear and environmental safety are regulated by the Russian Federation governmental rules, statutory standards, sanitary rules, norms, guidelines and other regulatory documents, issued by the government of the Russian Federation, ministries, departments, state regulatory authorities within their competence.

The list of the Company main authorization documents in the field of environmental protection

UECP JSC has got all necessary permits in accordance with the applicable environmental legislation of the Russian Federation, including:

- certificates of public registration of environmentally hazardous facilities
- permits for emissions of polluting chemical substances and radionuclides
- limit for production and consumption waste disposal
- certificates for hazardous production and consumption waste
- water use agreement
- decisions on the granting of water bodies for use
- licenses for nuclear energy use
- other documents

Contractors providing services and performing works at the Company site have the complete set of necessary permits and licenses.



5 Industrial ecological control and environmental monitoring

5.1 UECP JSC site conditions

There are no areas polluted by radionuclides at UECP JSC industrial site and sanitary protection area. Gamma-radiation equivalent dose rate does not exceed the natural background. The average value makes 0.06 $\mu\text{Sv}/\text{hour}$. Over the whole period of UECP JSC operations there were no cases of environmental contamination caused by emergencies, spills, etc. Pursuant to the "Decision on establishing category of UECP JSC potential radiation hazard as per Principal Sanitary Radiation Safety Rules (OSPORB-99/2010)" approved by the RF FMBA territorial body, UECP JSC was assigned the III category of potential radiological hazard. Therefore, the control area for UECP JSC is not determined. The sanitary protection area for UECP JSC, as the nuclear hazardous facility, is specified by "Project for UECP JSC sanitary protection area" and approved by the Head of Novouralsk urban district and UECP JSC General Director. The Company site total area makes 512.3 hectares. The Company land assets do not include the conservation areas and valuable biodiversity territories.

The following monitoring objects within UECP JSC monitoring area are:

- water bodies of the open hydrographic system
- atmospheric air
- vegetation
- atmospheric precipitation (snow)
- radiation environment
- meteorological parameters

UECP JSC performs monitoring of radiation, ecological situation and natural environment using three systems:



ARMS

Automated radiation monitoring system



EMS

Environmental monitoring system



SMS

Subsurface monitoring system



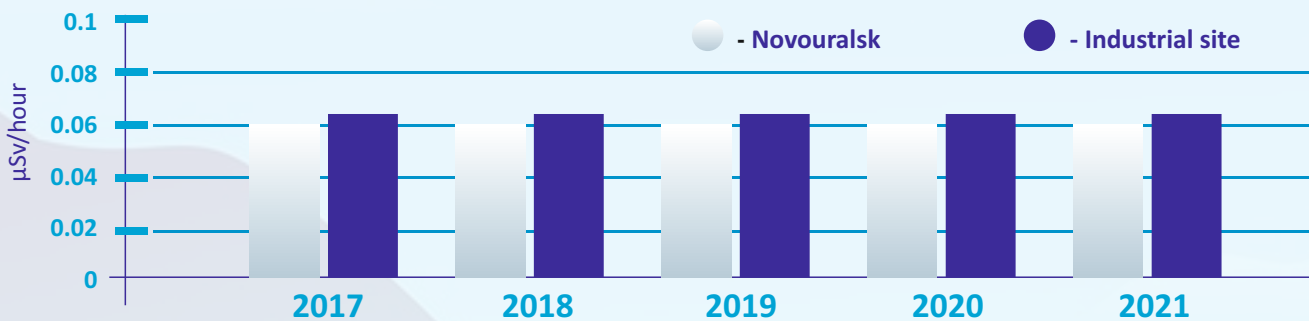
5.2 ARMS. Radiation monitoring and meteorological observations

Control of radiation situation is ensured by Environmental protection department (EPD) using automated radiation monitoring system (ARMS), being a part of ROSATOM unified state automated radiation monitoring system. The system is designed for ensuring continual automatic monitoring of radiation and meteorological conditions in monitoring stations connected with the control panel. At present UECP JSC automated radiation monitoring system is equipped with the most advanced equipment.

Nine monitoring stations cover all UECP JSC industrial sites. The measuring data of equivalent gamma-radiation dose rate received by UECP JSC automated radiation monitoring system are daily transferred to FSUE "ROSATOM Situation-crisis center". Thereafter these data shall be available on the web-site www.russianatom.ru.

According to the results of regular laboratory measurements the content of radioactive substances in atmospheric air and in water objects is stably low and has no tendency to increase. The exposure dose rate at the Company industrial sites and in Novouralsk does not exceed 0.15 $\mu\text{Sv}/\text{hour}$, which is well below the standard values and background exposure dose rates specified for Urals region.

Diagram 1. Average equivalent dose rate



5.3 Monitoring of the natural environment

UECP JSC Environmental protection department performs industrial environmental control and ambient monitoring. UECP JSC Analytical center performs environmental radiation monitoring. Several accredited companies perform the chemical content analysis accredited companies under the existing contracts.

UECP JSC Analytical center is equipped with the most advanced instruments, equipment and measuring devices for sampling and analysis of environmental samples. For example, uranium isotope content in the natural environment locations is determined by mass-spectrometric analysis using modern mass-spectrometers manufactured by the leading global producers of analytical equipment.

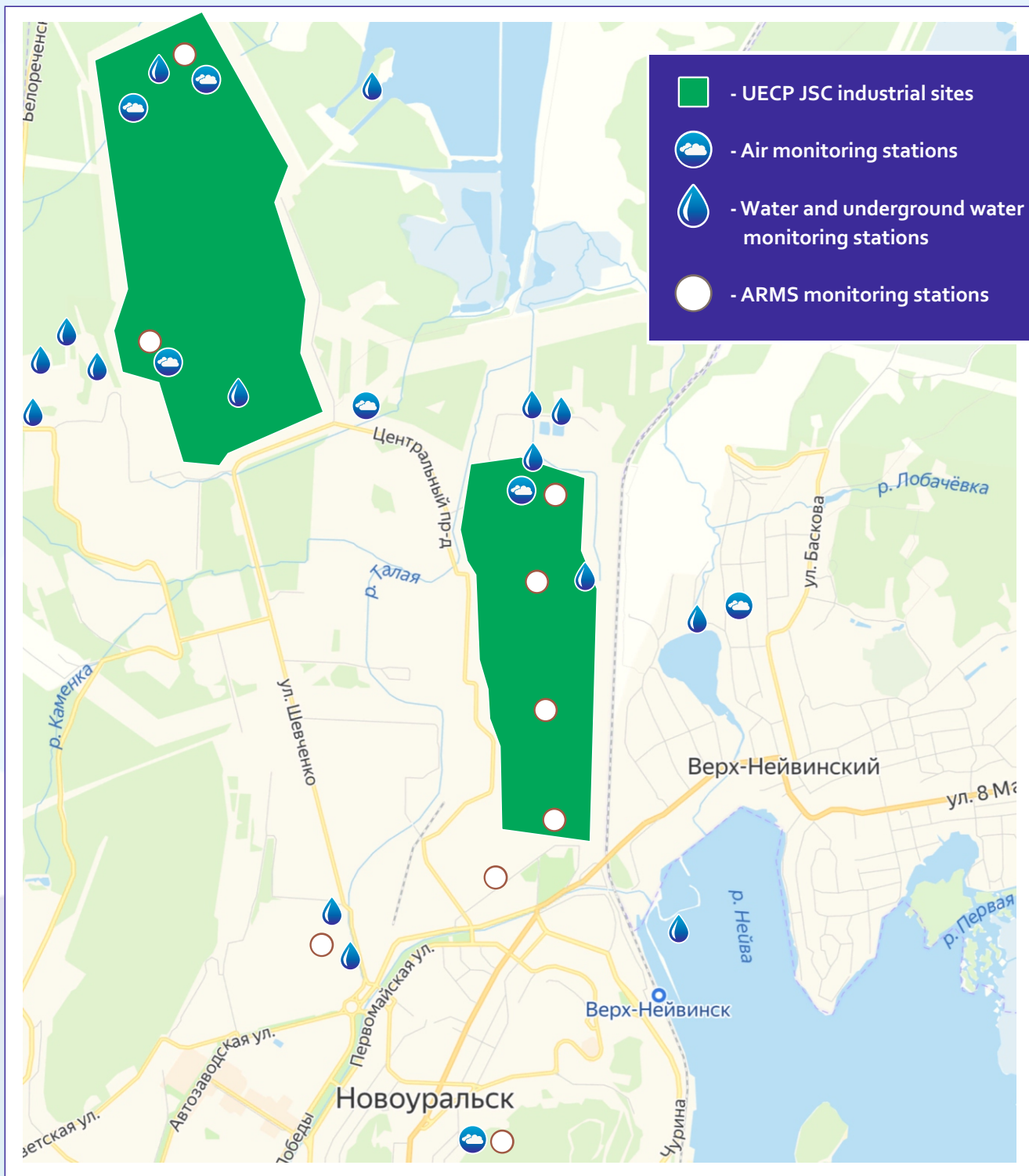
Results of long-term measurements show that:

- the content of radionuclides in ambient waters is ~150 times below the sanitary limits.
- the content of radionuclides in Novouralsk and UECP JSC site atmospheric air does not exceed the background level and is ~270 times below acceptable limit.
- the radionuclide content in soil does not exceed the background level.





UECP JSC environmental monitoring locations



Over the long-term period of monitoring (since 1960) the content of chemical pollutants (including uranium compounds and other heavy metals) as well as radionuclides in UECP JSC ambient environment has not exceeded the background level and is not tending to increase.



5.4 UECP JSC subsurface monitoring

Since it became necessary to determine the laws of dynamics, the structure and chemical composition of underground waters in order to monitor the quality of the Company's ambient waters and technical water supplied to the process facilities, the Company created the network of monitoring wells and stations that keep track of hydrodynamic status and water quality of water-bearing layers. The methods, techniques and equipment for wells installation and connection, sampling and sample analysis procedures, and other operations were tested.

Introduction of brand new subsurface monitoring system currently makes it possible to obtain correct and complete information on the state of underground hydrosphere. The system also serves as a resource for establishing basis of the future integral information-analytical system of radiation ecological monitoring (IAS REM) at ROSATOM State Corporation enterprises.

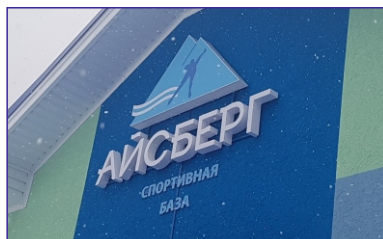
Arrangement of subsurface state monitoring system included geologic and geodesic research of UECP JSC radioactive waste storage locations, camera treatment of historical research. The company conducted research of change in geo-ecological indicators, performed analysis of the site geological and hydro-geological structure and prepared geological and hydro-geological cross sections. This work resulted in establishment of UECP JSC underground network of water observation wells that includes 43 operating wells. The geo-information system was established. 21 wells at I-IV industrial sites and 5 wells at VI-VII industrial sites were additionally drilled in 2020 in terms of subsurface monitoring system improvement. The wells were put on-stream in 2021.

The goal of current and previous research is to confirm that UECP JSC nuclear hazardous facilities do not affect the underground waters, and that the impact will not cause the population and personnel radiation and toxic exposure and natural environment radioactive and chemical contamination.

Results of monitoring the area outside UECP JSC site show that uranium isotopes intervention is within acceptable limits and therefore confirm UECP JSC zero impact on the underground waters.



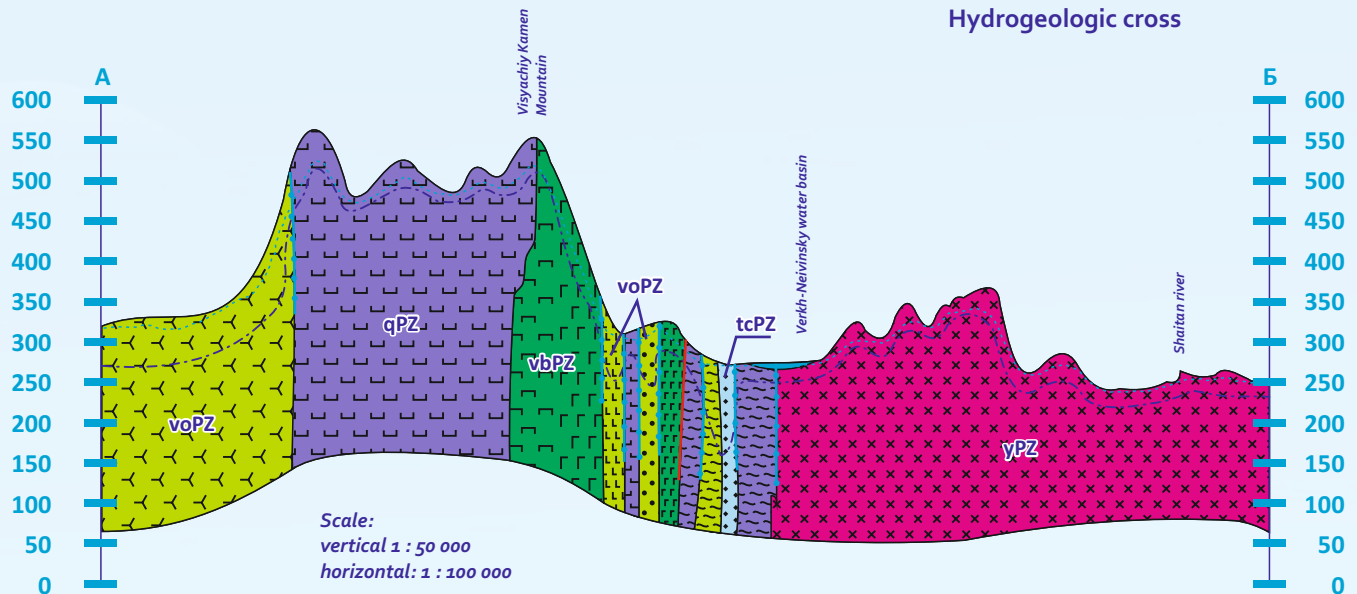
"Iceberg" Skiing center and sports camp



are the facilities belonging to sports club "Cedar" of Novouralsk city. This is the place whereto the local residents come with families and friends to spend free time outdoors, skiing and skating.



Hydrogeologic cross section in the area of UECP JSC and Novouralsk urban district location



LEGEND

HYDROGEOLOGICAL AREAL CLASSIFICATION

- voPZ** Paleozoic water-bearing zone of igneous-sedimentary rock fracturing. Volcanomictous sandstone, bibbley-rock, puff-stone, basalt, tuff siltstone, tuff sandstone, carbon-bearing cherts.
- tcPZ** Paleozoic water-bearing zone of terrigenous-carbonate rock fracturing. marmorized limestone, crystalline limestone.
- ypZ** Paleozoic water-bearing zone of intrusive felsic rock fracturing. Granodiorite, tonalite, diorite.
- vbPZ** Paleozoic water-bearing zone of basic and medium intrusive rock fracturing. Gabbro-diorite, harzburgite.
- qPZ** Paleozoic water-bearing zone of ultrabasic intrusive rock fracturing. Dunite, serpentinite, pyroxenite.

LITHOLOGICAL COMPOSITION

- Dunite
- Serpentinite
- Chert
- Granodiorite
- Basalt
- Puff-stone of various composition
- Crystalline limestone
- Gabbro-diorite
- Harzburgite
- Bibley-rock

The population is free from radiation exposure

In 2014 the Company experts developed the science-based reference levels. Compliance with these levels means zero environmental damage ('zero' environmental impact). All environmental components conform to the reference levels.

Table1. Main objects of ecological interest within UECP JSC zone of influence

Object of ecological interest	Effect indicator	Zero Level	2018	2019	2020	2021
Ambient waters	Uranium content, kg/l	2,2	<0,1	<0,1	<0,1	<0,1
Ambient air	Total α-activity Bq/m	0,33	<0,13	<0,13	<0,13	<0,1
Vegetables – potatoes	Uranium content, kg/l	2,4	0,9	0,79	0,8	0,4
Vegetables – except of potatoes	Uranium content, kg/l	1,7	0,6	0,4	0,47	0,5
Grassland	Uranium content, kg/l	135	35	32	32	38

Actual Content

6 Environmental impact

UECP JSC has made public registration of all operated facilities according to the environmental legislation. As related to environmental impact, UECP JSC enrichment facilities refer to the 2nd category facilities. UECP JSC support facilities refer to the 3rd category facilities.

6.1 Withdrawal of water from water sources

UECP JSC uses water from Verkh-Neivinsky, Neivo-Rudyansky and Ayatsky water basins for supply of enrichment production external cooling system, and MUP Vodokanal (Municipal unitary company) water as drinking water.

Recirculating water supply is performed as follows: after equipment cooling the process water is running through the guide channels to Verkh-Neivinsky and Neivo-Rudyansky basins. Water is subject to cooling and further resupply to the process facilities using pumping stations.

Characteristics of water sources

- **Verkh-Neivinsky water basin**

is used for the supply of drinking water to Novouralsk urban district population and technical water to the companies of Novouralsk urban district and Verkh-Neivinsky settlement. Withdrawal of water greatly impacts the water basin (makes over 5 % of average annual volume). The total capacity of Verkh-Neivinsky water basin makes 64 million m³.

- **Neivo-Rudyansky water basin**

is used for the supply of technical water to the Company facilities. Generally it is used as waste water receiver for Novouralsk urban district industrial and public utilities.

- **Ayatsky water basin**

is used as a reserve water source for adding water to Verkh-Neivinsky water basin in the low water years. It also serves as water source for gardeners' partnerships.

Table 2. Water withdrawal from natural water sources, thousand m³/a

Water source	2017	2018	2019	2020	2021
Verkh-Neivinsky water basin	2415	2419	2586	4902	5760
Neivo-Rudyansky water basin	542	567	542	539	647
Ayatsky water basin	11	14	22	58	37
Total	2968	3000	3150	5499	6444

Increase in water consumption occurred due to increase in water consumption by UECP JSC water consumers.

Table 3. Fresh water saving due to recycling and reuse of water supply

2017	2018	2019	2020	2021
138609	155016	153726	165736	158523

Consumption of recirculating water supply systems, thousand m³/a



6.2 Discharges into open hydrographic system

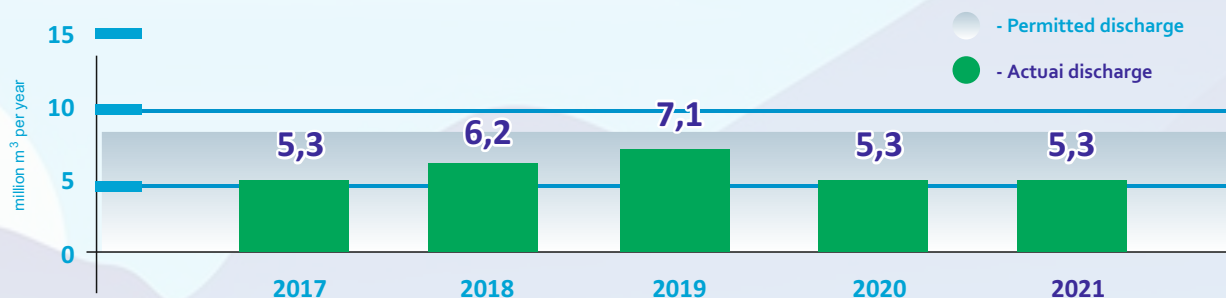
UECP JSC performs discharge of wastewater through three discharge outlets. Permissible discharge limits (PDL) were approved for every discharge outlet. The Ministry of natural resources of Sverdlovsk region issued “Decisions on the granting of water bodies for wastewater discharge”. According to «Decisions ...» UECP JSC has permit to discharge up to 8.3 million m³ of wastewater into the surface-water bodies. According to in-process monitoring data, the actual volume of discharge in 2021 made 5.3 million m³. The wastewater refers to partially clean water. The company does not perform off-schedule discharge. Obvodnoy channel on Bunarka river serves as water receiver. Pollutant content does not depend on the year average dryness.

Table 4. Wastewater composition by main pollutants in 2021

Priority pollutants	Class of hazard	ADL, t/a	Actual discharge, t/year
Petroleum products	3	*	0,2
Suspended substances	4	*	16
Ammonia nitrogen	4	*	1,3
Nitrites	2	2	0,2
Phosphates	4	*	0,3
Total, only by basic substances			18

*- in compliance with Federal Law dated 21.07.2014 № 219-FZ (as amended on 26.07.2019) On revision of Federal Law On Environmental Protection and certain legislative acts of Russian Federation allowable discharge rates in regard to these pollutants for UECP JSC objects are not set.

Diagram 2. Allowable Discharge Rate



In 2018-2019 industrial water consumption has increased due to increase of water consumption by UECP JSC water consumers – companies of Novouralsk industrial site, and amount of precipitations.

6.3 Radionuclides discharge

UECP JSC completed package of measures focused on terminating discharge of waste waters, containing radionuclides. This work resulted in termination of radionuclide discharge into surface-water bodies since 2006.





6.4 Chemical release

Actual release in 2021 made 26 tons, being the same as in 2018-2020. The maximum allowable emission for UECP JSC amounts to 26 tons. The overall pollutant emissions were reduced due to transfer of TPP assets to OTEK JSC branch in 2017.

Monitoring of the Company chemical release is performed according to annual “Chemical releases monitoring plan”, approved by UECP JSC Technical Director. Hydrogen fluoride release from all emission sources of enrichment production shall be controlled by means of instrumental methods. The volume of other emissions shall be determined using duly approved procedures based on emission calculations as per specific indicators.

Diagram 3. Air Emissions

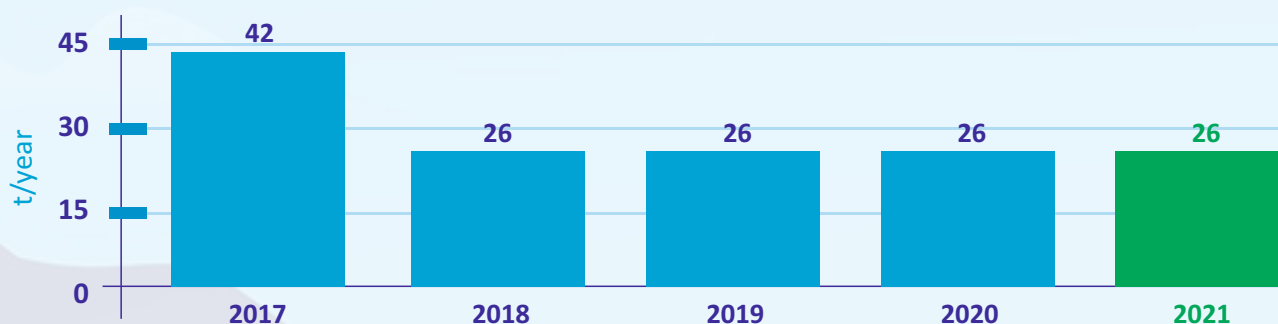


Table 5. UECP JSC chemical pollutant emissions

	tons/year				
	2017	2018	2019	2020	2021
Total	41.757	26.070	26.070	25.715	25.578
Solid	0.714	0.678	0.678	0.658	0.636
Gas and liquid pollutants, among them	41.043	25.392	25.392	25.057	29.942
Sulfur dioxide	0.438	0.141	0.141	0.134	0.096
Carbonic oxide	16.453	0.157	0.157	0.151	0.144
Nitrogen oxides (in-equivalent NO _x)	1.931	0.327	0.327	0.326	0.244
Hydrocarbons (without VOC)	0	0	0	0	0
Volatile organic compounds (VOC)	14.104	10.045	10.045	9.723	9.736
Other gas and liquid pollutants	0	14.722	14.722	14.723	14.722



6.5 Greenhouse gas emissions

The Company implements the "UECP JSC Program for energy saving and energy efficiency". For the first time, increase in direct greenhouse gas emissions resulted from sulfur hexafluoride (SF6) emissions. Sulfur hexafluoride has maximum global warming potential among greenhouse gases, and has dominant share in UECP JSC cumulative direct greenhouse gas emissions. Indirect greenhouse gas emissions were increased in 2021 due to cold winter; average air temperature within the heating period made 8.2° lower than in 2020.

Table 6. Direct & indirect greenhouse gas emissions					tons/year
Material (substance)	2017	2018	2019	2020	2021
Direct greenhouse gas emissions					
For all types of emissions in CO ₂ equivalent	148	145	79	74	2736*
Indirect greenhouse gas emissions					
For all types of emissions in CO ₂ equivalent	840648	876353	885221	889288	892148

*- Based on greenhouse gas emissions inventory performed in 2021 according to "Uniform branch methodical guidelines..." of 28.12.2020 No 1/1634-P, the data on SF6-gas insulated electrical equipment emissions are included in this report. SF6-gas metering in greenhouse gas emissions influenced greatly on total amount of greenhouse gas emissions.

Table 7. Greenhouse gas emission rate					
Material (substance)	2017	2018	2019	2020	2021
Total direct and indirect greenhouse gas emissions, ton	840796	876353	885300	889362	894884
Annual products and services revenue, mln rubles	23881	22310	23560	22006	21080
Intensity of greenhouse gas emissions /annual revenues from product sales, tons/mln rubles	35	39	38	40	42

Nuclear industry contribution to greenhouse gas emission reduction

In estimating greenhouse gas emissions by the nuclear industry companies it should be mentioned that nuclear energy is classified as low carbon energy source. According to the forecast of International Energy Agency the share of low carbon sources in the global energy mix will make 40 % by 2040. Along with renewable generation resources, nuclear energy will become the integral part of low carbon energy mix.

Operation of all Russian-designed NPPs in the world prevents from emitting about 213 mln tons of CO₂-equivalent per year, and particularly in Russia– 108 mln tons of CO₂- equivalent (about 7 % of all greenhouse gas emissions in the country).

UECP JSC covers ~ 20% of the global uranium enrichment demand. UECP JSC is involved in generation of every fifth nuclear power kilowatt under the sun, therefore UECP JSC saves the earth atmosphere from entry million tons of greenhouse gas into the environment.

6.6 Radionuclides release

The results of radionuclide emission monitoring are given in Table 8. According to the Table, UECР JSC radionuclides release meets the specified limits. Thus, the population dose rate from radionuclide inhalation does not exceed 0.005 mZv/year, which makes 0.5% of population dose limit.

Table 8. Results of radionuclides release monitoring

Nuclide	2017	2018	2019	2020	2021
Total atmospheric release of long-lived alpha-active radionuclides, Gbq/year	0,087	0,079	0,073	0,065	0,062
Allowable release level, Gbq/year	0,3	0,3	0,3	0,3	0,61

6.7 Production and consumption waste management

UECP JSC does not perform production and consumption waste processing. Waste resulted from UECР JSC economic activity are delivered for processing to the authorized companies under the existing contracts.

UECP JSC generated 4983 tons of production and consumption waste in 2021, 3 646 (73%) tons of which made ferrous and non-ferrous scrap waste to be delivered for processing and returned to production facilities in the form of finished products.

The metal scrap waste is delivered for processing and returned to production facilities in the form of finished products. In 2020 the processed production and consumption waste volume made 76% of the total waste volume, in 2019 - 82 %, in 2018 - 95 % in 2017 - 86 %.

The other types of waste produced by UECР JSC include

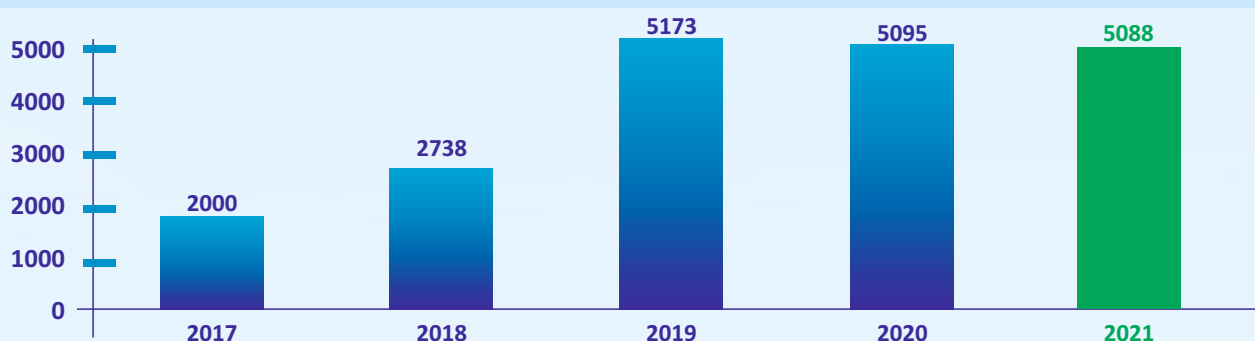
- Solid municipal waste that shall be delivered to the Regional operator according to the legislation.
- Production and consumption waste including rags, tree scrap material, waste lamps, oiled waste, sorbents that are delivered for further processing or disposal to special facilities.

Table 9. Dynamics of production and consumption waste generation, t/year

Pollutant	2017	2018	2019	2020	2021
Total waste generation Including:	2000	2738	5173	5095	5088
1st class	3	2	4	5	27
2d class	0	0	0	0	0
3d class	<1	3	<1	18	80
4th class	223	129	817	1144	1236
5th class	1773	2604	4351	3928	3745
Processed waste	1720	2585	4260	3851	3646
Delivered for disposal	280	153	96	147	247
Solid municipal wastes transferred to regional operator	0	0	817	1097	1195



Diagram 5. Generation of production and consumption waste, tons per year



6.8 Radioactive waste management

Generation of solid radioactive waste (SRW) at different stages of production process is resulted from UECP JSC nuclear facility operation.

SRW are classified into two types:

- low-level radioactive waste (<10% of total SRW volume)
- very low-level radioactive waste.

The most part of SRW volume collected at the Company facilities is subject to processing for further compacting. After processing SRW packages shall be delivered to FSUE “NO RAO” SRW storage facility, which is safe and isolated from the environment.

Decontaminating uranium-bearing solutions shall be processed by means of special technology. Upgrade of uranium-bearing solution processing technology in 2006 ensured reduction of the content and activity of radioactive substances in such solutions to the background levels. Thus, zero discharge of radioactive substances with wastewater is ensured.

In handling SRW UECP JSC is guided by radiation safety regulations and radiation protection requirements to ensure radiation safety of personnel, population and environment.

The most part of solid radioactive waste (SRW) produced in UECP JSC make waste resulting from thermal breakdown of gas centrifuge units.

UECP JSC performs continuous upgrade of production, therefore SRW volume is rather unsteady not only due to thermal breakdown of gas centrifuge units but also due to dismantling buildings, constructions and production facilities, which results in construction waste generation.

UECP JSC became the first company in Russia possessing the full range of facilities and technologies making possible the complete SRW management cycle – from generation to SRW preparation for final disposal. UECP JSC effectively operates SRW compacting and conditioning installation: waste breaking, burning, compaction, cementation, containerization. The current technologies made it possible to reduce volume of generated SRW by factor of 25-30 and bring it to safe condition.



Diagram 6. SRW generation

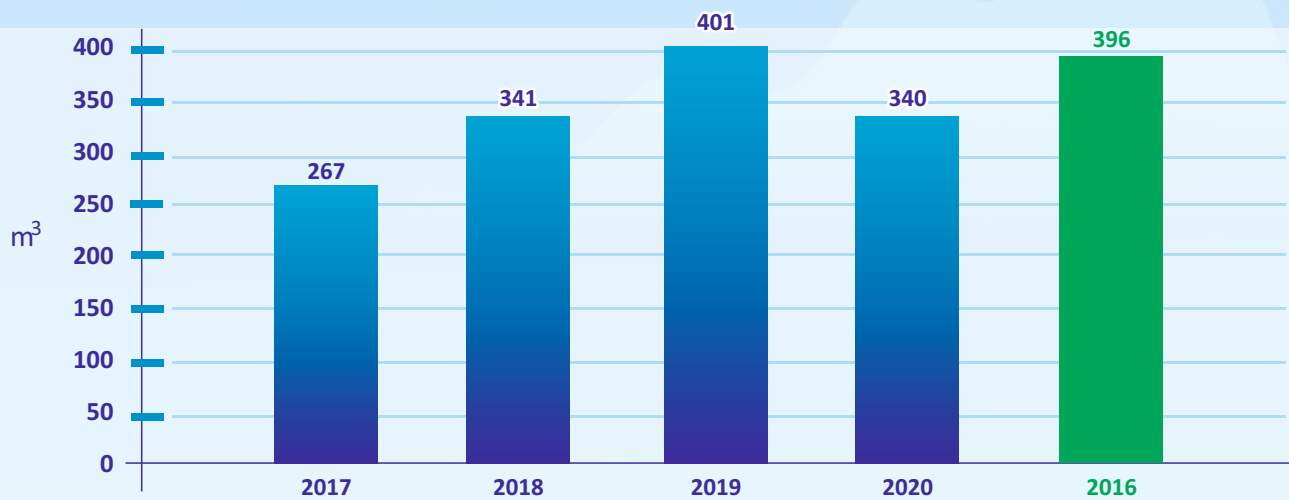
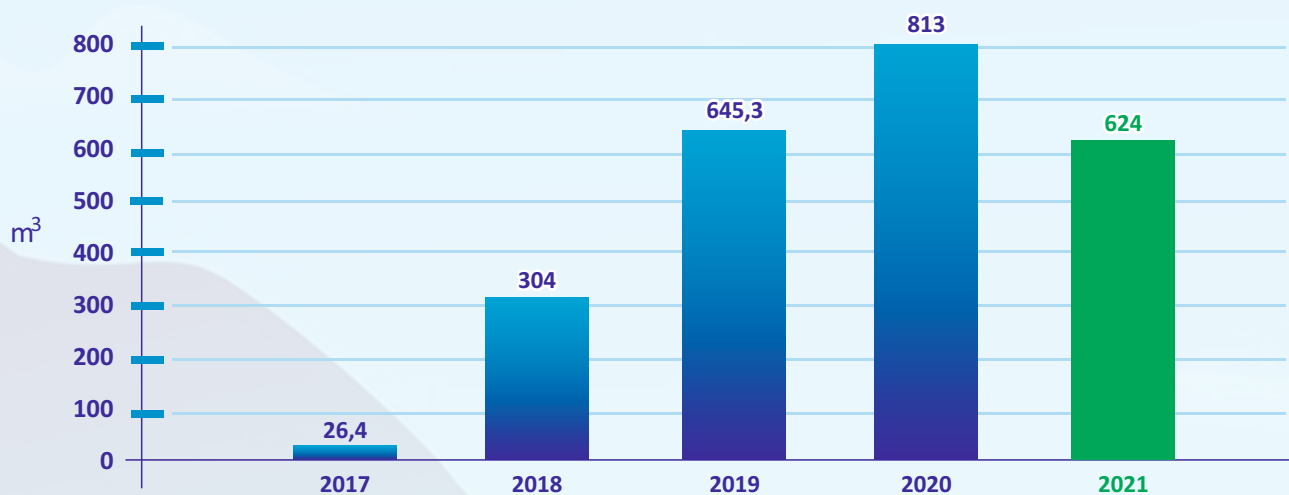


Diagram 7. The volume of SRW delivered to FSUE "NO RAO" for disposal



Based on the results of research and development UECP JSC developed a series of technical solutions concerning change of SRW processing flow-charts. Therefore using new technologies UECP JSC:

- ceased generation of liquid radioactive waste
- ensured zero level of radionuclide discharge in surface water bodies
- designed, built and accepted for operation the isolated SRW storage facility that was transferred for use to FSUE "NO RAO".
- developed new procedures for radioactive waste analytical control
- brought a batch of UECP JSC SRW waste into compliance with safety criteria for final disposal in 2016
- was the first in the RF to dispose of the batch of low-level solid waste.

SRW safe management infrastructure was established in Rosatom State Corporation Fuel Division



6.9 Energy use

UECP JSC is committed to introduction of energy-saving technologies and cost reduction. Based on the research made in 2020 UECP JSC developed, approved and introduced the "Program for energy saving and energy efficiency improvement for 2021-2025". The Program is focused on effective use of energy resources and reduction of energy losses resulted from changes in personnel behavior, and improvement of production process.

Effective use of energy resources & energy loss reduction

UECP JSC introduced and maintained functional the energy management system as per ISO 50001. UECP JSC developed and introduced the Energy policy.

The Company implements several projects oriented to manufacturing infrastructure improvement. The installed equipment is more energy-efficient and ensures flexible use of available capacities.

Process control and emergency protection system based on AKSU-3 was brought online in support process equipment of process shop 53.

To improve energy efficiency the following operations were done in 2021:

- providing equipment cooling systems with frequency-controlled drive pumps
- installing LED lamps instead of gas discharge lamps
- restoring thermal insulation on steam piping and hot water pipelines
- renewing worn out segments of water network
- replacing synchronous motor with low-powered asynchronous motor of station 250 refrigeration system.

Table 10. Energy consumption

	2017	2018	2019	2020	2021
UECP JSC power consumption, thousand kW/ h	979059	1012306	1023411	1027874	1017639
UECP JSC thermal energy consumption, Gcal	587907	627539	631946	626314	659288
Total energy consumption, GJ	5985584	6279965	6330000	6322600	6423807

6.10 Share of UECP JSC emissions, discharge & waste in Sverdlovsk region

UECP JSC share in total volume of chemical pollutants (ChP), radionuclide emissions and discharge both in Sverdlovsk region and within the territory of Rosatom State Corporation enterprises makes less than 1 percent.

Table 11. Comparison of indicators with total volume within the territory

Indicator	Total volume within the territory	UECP JSC total volume	UECP JSC Share
ChP emissions, thousand tons	783,9*	0,026	0,003%
Discharge (volume of discharged waters), million cubic meters	693,5*	5,3	0,8%
Production and consumption waste, million tons	147,7*	0,005	0,003%

* - Total volume in Sverdlovsk region in 2020



6.11 Share of sold products and its packing materials returned to producer for processing

UECP JSC production process allows for 100% return of packaging materials (vessels) to product manufacturer. Safety of purchased products and services is ensured by:

- incoming inspection and acceptance control
- specifying requirements for the suppliers.

When evaluating and choosing suppliers the following factors are taken into consideration:

- technical requirements for the supplied products and availability of regulatory documents specifying these requirements
- availability of documents proving conformity of product to ecological and environmental safety requirements (certificates of goods conformity and origin, safety and health certificates)
- availability of documentation confirming the product quality.

Contractor obligations on operations (activities) management in delivering products and services are specified in the contracts.

To improve the integrated management system the Company implements "Environmental protection and ecological safety requirements during work performance, product and service delivery by the contractors".

6.12 Financial aspects and other risks and opportunities for the Company in the context of climate change

Meteorological observations performed since 1960 show that temperature and wind regimes, amount of precipitations and their annual average are practically constant within UECP JSC activity area. Climatic and weather conditions are rather stable.

To minimize the weather damage risks the Company annually develops plans of activities focused on emergency prevention (flood protection, fire protection). These risks are treated as extremely low considering the Company geographic location, existing statistical observations and actions taken to mitigate any possible climatic accidents.

In view of the slow rate of climatic changes, the Company management has performed no special quantitative evaluation of financial consequences in the context of climate changes in medium and long-term perspective.



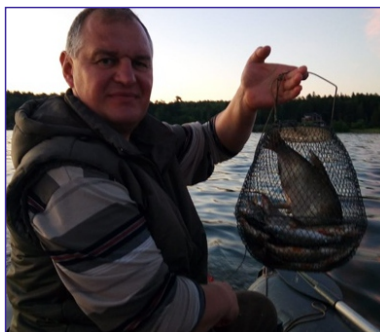
7 Implementation of environmental policy

Environmental safety is of high priority for nuclear industry and is mandatory condition for the development of nuclear technology and nuclear facility operations. Moreover, despite of nuclear industry sustainable development, improvement of technology and safety, stabilization of nuclear industry is closely related to its ecological and social acceptability. At present it greatly depends on conditions ensuring reduction of radioactive waste volume, safe waste disposal, development of decommissioning technologies and solution of nuclear legacy problems.

UECP JSC scope of activity is of great strategic importance for the development of Novouralsk urban district, since it greatly contributes to its steady innovation progress. In this connection UECP JSC management understands the need for ensuring balance between strategic objectives for corporate business development and environmental safety, being the basis for life and health of present and future generations. One of the Company key tasks remaining vital for many years is to ensure the parity between the economic and environmental values. Practically it is ensured by technical upgrade, modernization and energy saving corporate programs, as well as detailed assessment and minimization of potential environmental risks during implementation of new build projects. Improvement of environmental and energy performance is the mainstream of the Company strategy, a key element of environmental management system and environmental policy. UECP JSC advanced multilevel environmental management system is underpinned by qualified scientists and engineers and meets the modern criteria for management efficiency in this field. The complex approach to solution of problems addressed to conservancy and environmental protection enables UECP JSC to achieve all intended environmental purposes, minimize environmental risks and increase social responsibility of business.



Verkh-Neivinsky pond



Verkh -Neivinsky pond is located in southwest part of Sverdlovsk region, at the upper reaches of Neiva river in Verkh-Neyvinsky settlement near Novouralsk. Is the favourite resting place of citizens and tourists. In summer, on the pond mirror one can see a lot of yachts and boats. This is the place for perfect summer and winter fishing.

The pond is home to pike, perch, roach, bream, tench, burbot, ruff, golden carp, silver carp, nerfling, whitefish, peled.



7.1 Initiatives on mitigating products & services environmental impact and the scope of mitigation measures

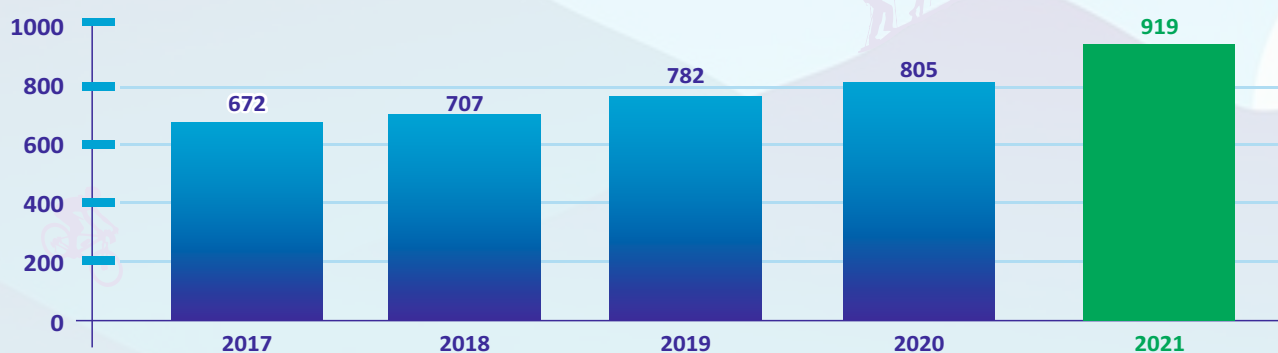
Operational safety of UECР JSC nuclear facility (NF) and its separate systems and components is ensured by steady implementation of defense-in-depth principle. Safety is ensured by application of physical protection system acting as a barrier on the way of ionization radiation, nuclear material and radioactive substance release to the environment, should it be the package (vessel, pipeline) or structure, frame or roof of any building. UECР JSC NF safety system includes protection of physical barriers, ensuring their operation within specified lifetime, personnel and environmental protection. For this purpose UECР JSC developed the complex of special measures to prevent emergency situations which may result in loss of containment (abnormality of process conditions, operation disturbance, self-sustained chain reaction, fire, dropping of goods, mechanical or corrosion damage, etc.), and radiological emergency release measures.

Table 12. Current environmental costs in 2020, thousand rubles.

Type of environmental activity	Annual current (operating) costs	Payment for services intended for nature protection purposes	Depreciation costs for the recovery of capital environmental assets
Total	816 913	48 549	53 911
including:			
air protection	154 705	217	10 334
collection and purification of waste water	331 485	42 376	14 726
waste management	2 890	5 824	-
environmental radiation safety	324 387	-	28 851
other environmental activities	3 446	132	-

Safety level achieved by UECР JSC in NF operation and other activities in nuclear field are ensured primarily by the technical measures and decisions taken in design of equipment, systems, NF components, and also by development of technological processes relating to nuclear material, radioactive substance and radioactive waste management.

Diagram 8. Current (operating) environmental costs, mln rubles



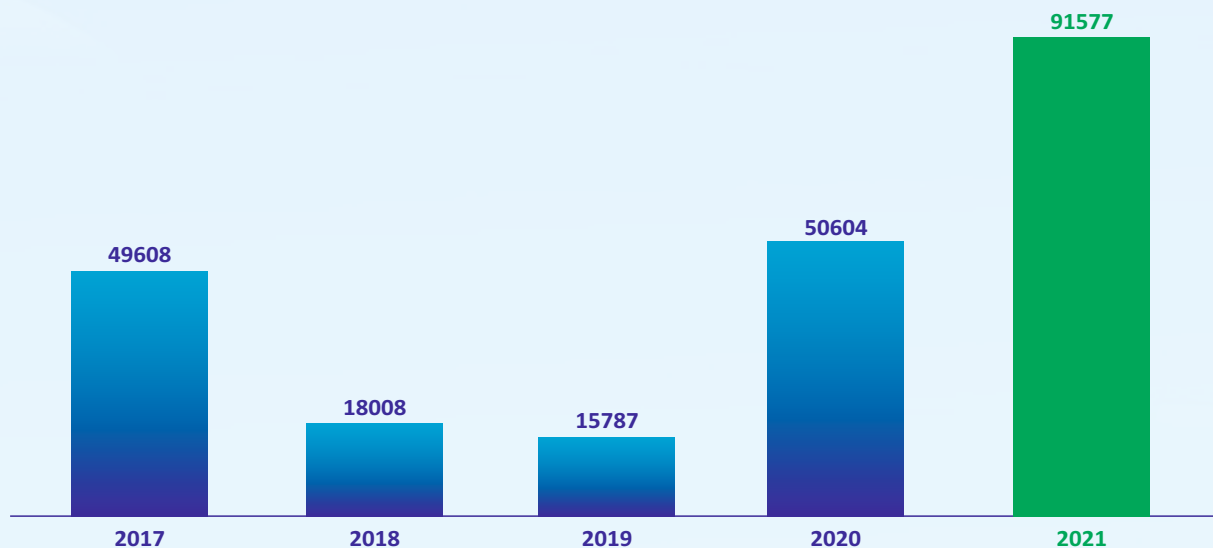
The cost increase in 2021 occurred due to:

- SRW delivery to FSUE "NO RAO" SRW near-surface storage facility
- Increase in payment of services for industrial environmental monitoring of environmental medium (including radiation monitoring)
- conclusion of contract with regional operator on solid municipal waste management.



UECP JSC environmental activity is focused on implementation of measures on reducing environmental impact. UECP JSC environmental costs are basically related to processing and purification of discharge and emissions and addressed to supporting technical and organizational activities. Environmental protection investment is generally made in upgrading equipment and waste processing facilities.

Diagram 9. Environmental investment data, thousand rubles



In 2021 environmental costs using capital investment made



- replacement of ventilation system gas purifying equipment in building B-31 of shop 19
- designing uranium hexafluoride processing facility (W-UECP)
- development of discharge and workplace air radiation monitoring systems in shop 19
- establishment of RW conditioning and intermediate storage facility.

Table 13. Environmental pollution payments, thousand rubles

	2017	2018	2019	2020	2021
Pollution charge	247	169	152	111	86
water bodies	95	100	101	49	51
open air	2	42	2	2	2
waste disposal	150*	27	49	60	33

* The calculation was made in accordance with new requirements of the Russian Federation legislation in the field of environmental protection and production and consumption waste management.



8 Environmental education

8.1 Cooperation with public and local authorities

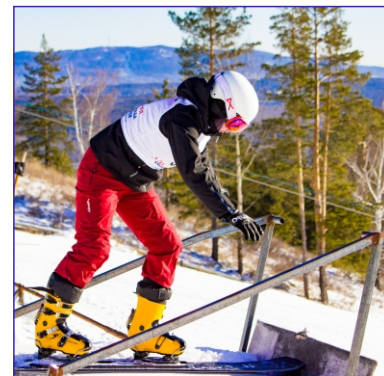
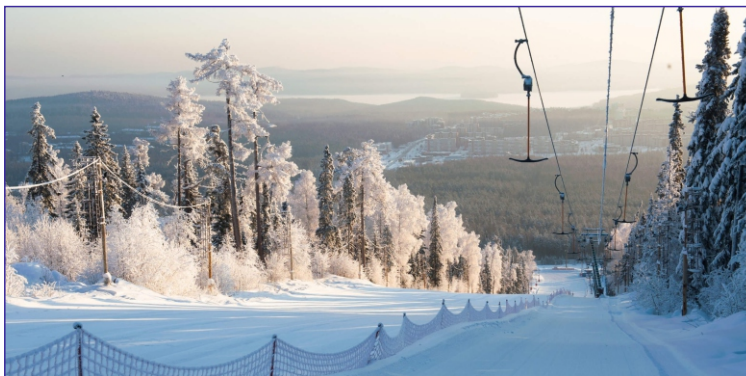
The proper level of nuclear, radiation, industrial, environmental and labor safety at UECP JSC was confirmed by many inspections conducted by the following executive authorities:

- Urals Directorate of the Rostekhnadzor – as related to compliance with industrial safety requirements at UECP JSC hazardous facilities
- Urals Interterritorial Directorate for supervision of nuclear and radiation safety - as related to nuclear facility operation compliance with standards and regulations
- RF FMBA Regional office No 31 – as related to UECP JSC compliance with health legislation requirements.

UECP JSC management cooperates closely with Novouralsk urban district administration. UECP JSC employees jointly with Novouralsk urban district public authorities constantly perform activities in the field of landscaping, garbage collection, and various charitable activities.



Visyachi Kamen



Ski resort Visyachi Kamen is located on the namesake mountain near Novouralsk of Sverdlovsk region. From the top of Visyachi Kamen mountain one can observe a splendid panorama of picturesque regional landscape. The local residents spend days off in the resort all the year round. Ecotourism is very popular in summer. People gather around the fire among friends, stay for several days in tents. Visyachi Kamen is a full-scale modern ski resort in winter. There are 3 ski slopes of up to 700 meters long and vertical drop of 150 meters for skiing and snowboarding.



8.2 Promoting public awareness

UECP JSC pays great attention to environmental education. One of the Company key principles stated in UECP JSC environmental policy is to ensure transparency and public availability of information related to environmental protection and safety activities. Dozens of information materials are published annually in corporative, local, regional and branch mass media. The published information highlights the Company environmental activities and environmental conditions in the territory of presence. In accordance with “transparency” policy pursued by UECP



JSC, the Company annually organizes the ecological press-tours to the Company site for Novouralsk and Sverdlovsk region students, newsmen, bloggers and representatives of public organizations. The tour participants get unique opportunity to visit the Company process facilities, measure radiation background in any point of their route and make sure that the plant is environmentally friendly. Since 2008 the Company annually publishes Environmental safety report presenting full and objective information on UECP JSC current environment conditions and environmental impact. Since 2012 Environmental Safety Reports have been publically presented to concerned regional public communities and Novouralsk citizens. The Report is delivered to organizations cooperating with UECP JSC on environmental protection and industrial safety, mass media and public organizations located in Novouralsk urban district, and is available on UECP JSC web-site (www.ueip.ru). Furthermore, the news-bulletin on radiation situation in the territory of Novouralsk urban district is posted monthly on UECP JSC web-site. Special section "Environmental situation" is available on UECP JSC social media pages.



UECP JSC management and specialists of environmental protection department are always ready to answer all questions related to the Company environmental activity and production ecological safety.





8.3 Cooperation with scientific and social institutions, population

In 2021 more than 30 informational materials that covered the Company environmental activity and state of environment at business site were published in corporative, city, regional and branch mass media.

Unfortunately in connection with COVID-19 pandemic almost all public events, including environmental actions, have been cancelled or rescheduled.

In 2021 the following events and actions should be noted:

- Specialists of environmental protection department took part in strategic session mission "Industrial emissions and waste waters: practice of regulatory compliance with environmental standards, which was held on April 20, 2021 as part of "TechnoPark Ural" international exhibition in "Ekaterinburgr-Expo" IEC.
- Specialists of environmental protection department took part in the remote seminar of Rosatom State Corporation General Inspectorate "Communication in terms of radiation environment monitoring in Rosatom State Corporation organizations".
- Specialists of environmental protection department took part in the meeting of working group on the question of hazardous production and consumption waste management in Novouralsk urban district.
- Environmental education seminar for schoolchildren, teachers and public interest groups on discussion of water resources conservancy issues, support of junior project activity, and involvement of young people in creating sustainable and comfortable environment, was held. The following report was presented "UECP JSC. Environmental protection. Ecological safety assurance".
- Placard contest "Create safe future" was conducted.
- Employees of department 23 Morozov N.V. (participant) and Nalivaiko A.V. (expert) were the first in "Environmental protection" competence at VI Branch championship in professional skills of Rosatom State Corporation by WorldSkills – «AtomSkills-2021» procedure, that was held in Ekaterinburg on August 12-16, 2021.

Company awards

- UECP JSC was awarded a winner's certificate of municipal environmental contest "Green owl-2021» in the nomination "The leader of environmental activity among Novouralsk urban district organizations". UECP JSC was also mentioned as prize winner in the nomination "Social environmental initiatives".
- UECP JSC was the first with the project "Zero carbon footprint" in the contest named after A.P. Alexandrov. The contest is held in the field of corporate social responsibility and volunteer services.
- The letter of acknowledgement from the Head of Novouralsk urban district administration was addressed to Alexander Belousov, UECP JSC General Director for support in arranging municipal ecological children's crafts contest "Children are saying: "I love nature-2021".



8.4 Plans for the future

According to the current version of Environmental policy the main future tasks in the field of environmental protection and ecological safety are:

- meeting the requirements of international, federal and regional legislation, rules and guidelines in the area of radiation and nuclear safety, environmental protection, sanitary-and-epidemiological well-being of population, protecting population in natural and man-made emergency situations, and other commitments undertaken by UECP JSC
- developing the natural environment and radiation control and monitoring systems using advanced automatic equipment and software
- improving the resource and energy efficiency of production
- ensuring decommissioning of UECP JSC nuclear facilities being out-of-service
- reducing the volume of radioactive and hazardous industrial waste
- regularly informing UECP JSC personnel, citizens and other concerned parties of environmental and radiation situation and UECP JSC environmental impact
- constant improving the integrated management system as required by ISO 9001, ISO 14001, OHSAS 18001, ISO 50001, IAEA GSR Part 2, IAEA GS-G-3.1.

Key activities for 2022

- Development of environment impact assessment procedure (EIAP) in the course of nuclear activity "Construction of depleted uranium processing facility (W-UECP)".
- Management of hazardous production and consumption waste delivery to federal waste (I, II class hazard) handler
- Replacement of PCB condensers of enrichment production operating equipment (in compliance with the RF obligations under Stockholm Convention on Persistent Organic Pollutants)



Roller skiing run illuminated ski-track



forest route of 2,2 km long, located near the city and owned by Novouralsk sports club "Cedar".





A large, empty white rectangular area intended for recording data or observations.





List of sporty facilities and environmental areas



"Cedar" (tourist club)

page 9



Skiing center and sports camp "Iceberg"

page 15



Verkh -Neivinsky pond

page 26



Visyachi Kamen

page 29



Roller skiing run (illuminated ski-track)

page 32





UECP
ROSATOM

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ENVIRONMENTAL SAFETY REPORT

2021