

ANNUAL REPORT

2018

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MISSION

- Operation, maintenance and decommissioning of nuclear facilities
- Management of spent nuclear fuel and implementation of spent nuclear fuel transports
- Management of radioactive waste and implementation of radioactive waste, institutional radioactive waste and captured radioactive materials transports

AUTHORIZATION OF THE MINISTRY OF ECONOMY OF THE SLOVAK REPUBLIC TO PERFORM ACTIVITIES

Based on provisions of Act No. 350/2011, Coll., amending the Atomic Act No. 541/2004, Coll., the Ministry of Economy of the Slovak Republic has authorized JAVYS, joint stock company (JAVYS, a. s.), to perform activities related to the disposal of radioactive waste and spent nuclear fuel at the national level for all operators of nuclear facilities.

JAVYS, a. s., is the only company having professionally competent staff, relevant technical means, established facilities for the performance of these activities available and the company holds authorizations issued by supervisory bodies.

JAVYS, a. s., performs all activities within the meaning of the approved National Policy and National Programme of Spent Nuclear Fuel and Radioactive Waste Management in the Slovak Republic and in compliance with principles specified by EC Guideline 20011/70/Euratom.

Dear Ladies, Dear Gentlemen.

Jadrová a vyradovacia spoločnosť, a. s., is a joint stock company with the 100 % ownership of the state that exercises its shareholder rights by means of the Ministry of Economy of the Slovak Republic. The company mission is to perform activities within the meaning of the approved National Policy and National Programme of Spent Nuclear Fuel (SNF) and Radioactive Waste (RAW) Management, namely to decommission nuclear power plants A1 NPP and V1 NPP in a safe, reliable and cost-effective manner, to provide nuclear services in areas of spent nuclear fuel and radioactive waste management by means of optimum use of existing RW PTT processing capacities and to provide relevant servicing.

The provision of all the above mentioned services during the previous year meant a further development of our company potential whereby our position within the European space was consolidated and we belong to significant partners in the international market. We provide to third parties additional services resulting from concluded servicing and lease contracts, leaning on professionalism, quality and guaranteed professional approach.

Since July 2016, JAVYS, a. s., has been included in the public administration sector and its business activities are also affected

by relevant legal regulations applicable to this area. As to 31 December 2018, the company achieved the pre-tax economic result amounting to €6,706,663 and the economic result after tax amounting to €3,893,093. The economic result originating from economic activities was reported on the level of €10,732,919. In 2018, the JAVYS, a. s., core activities were covered by funding provided from the National Nuclear Fund (NNF), by funding provided from the BIDSF fund and from revenues and returns achieved by commercial activities. The economic results achieved are shown in the statement of finances that was audited by an independent auditor, without reservations.

The year 2018 was also a success story for our company in the nuclear safety compliance area that is a JAVYS, a. s., priority declared both in the policy and objectives belonging to fundamental documents of the company Integrated Management System. In the year 2018, neither any staff accident at work, nor any fire was recorded within the company and no operational event was identified either reportable to supervisory bodies. No doubt, our company manages to achieve those positive outcomes thanks to high professionalism, effective company governance system, preventive measures as well, but also by means of the staff active involvement in the system.

The decommissioning of two oldest nuclear power plants in Slovakia – A1 NPP and V1 NPP – is among major activities performed by our company and I am glad that significant milestones were also achieved in that area. Within the framework of activities related to the A1 NPP decommissioning, by means of continuous reducing the radioactivity inventory through both decontamination and disassembly of technological equipment, systems and building structures of A1 NPP buildings being decommissioned, and continuing processing of radioactive waste originating from the decommissioning and

historical operational radioactive waste, JAVYS, a. s., implemented all the planned A1 NPP decommissioning actions in compliance with the 2018 work schedule that was derived from the A1 NPP Decommissioning Plan, Stages III and IV, approved by relevant state administration bodies. The 2018 Activity Plan established in the A1 NPP decommissioning area, was fulfilled within the full scope including the meeting of principles of nuclear safety, radiation protection, occupational health and safety, fire protection and environmental protection. Similarly to the A1 NPP Decommissioning Project, all planned actions were also successfully implemented within the V1 NPP Decommissioning Project in the previous year. From the points of view of overall V1 NPP Decommissioning Project implementation and V1 NPP decommissioning continuity assurance, the completion of D2.1 Project, “Decontamination of Spent Fuel Pools and Other Contaminated Tanks in the V1 NPP – Part 1”, was important in the year 2018. In February 2018, all planned works were successfully implemented to the full scope and the Project was successfully closed. The Project is an inevitable predecessor to projects D4.4B “Dismantling of Systems in V1 NPP Controlled Area – Part 1” and D4.4C “Dismantling of Systems in V1 NPP Controlled Area – Part 2”.

During the year 2018, the implementation of the extensive project D4.2 “Dismantling of Reactor Coolant System Large Components” continued, its completion being supposed in the year 2022, and concurrently with that project, the project D4.4B “Dismantling of Systems in V1 NPP Controlled Area – Part 1” implementation was in successful progress. In November 2018, the project D3.1B “Dismantling and Demolition of V1 NPP Cooling Towers” was completed. In December 2018, the construction of disposal spaces for low-level waste (the third double-row) was completed within the project, C9.4 “Design and Construction of New Disposal

Spaces for Low-Level Waste and Very Low-Level Waste from V1 NPP Decommissioning in Mochovce NRWR)“, within the meaning of the valid building permit and the detailed design documentation.

In addition to the decommissioning of nuclear power plants, our company’s mission in ensuring the back end of nuclear power engineering also includes the spent nuclear fuel and radioactive waste management.

After achieving determined parameters, spent nuclear fuel produced in reactor units of nuclear power plants in the Slovak Republic is subsequently transported and stored in the long term within the JAVYS, a. s., Interim Spent Fuel Storage nuclear facilities (NF) in Jaslovské Bohunice and, in 2018, the total of 332 pieces of spent fuel assemblies were transported from the NF V2 and NF EMO.

The radioactive waste management is provided by JAVYS, a. s., using technological lines of nuclear facilities in Jaslovské Bohunice and Mochovce, namely in an up-to-date and safe manner. The processed low-level radioactive waste is, subsequently, inserted in fibre concrete containers and treated by cementation in nuclear facilities RW PTT and FP LRW and transported to the JAVYS, a. s., National Radioactive Waste Repository in Mochovce. In 2018, the total of 316 pieces of FCC were transported to the NRWR.

JAVYS, a. s., is also the Authorized Person in relation to the management of emitters and radioactive waste of unknown origin, non-used emitters and radioactive materials, while, in 2018, 14 captures of ionizing radiation sources of unknown origin were performed by JAVYS, a. s. By implementing those activities, our company fulfils a responsible all-society role at the same time, consisting, above all, in protecting the environment and public health of Slovakia.

As mentioned at the beginning of the present speech, JAVYS, a. s., holds an important position in the international space as well. There is greater and greater interest in extensive JAVYS, a. s., experience

in the nuclear facilities decommissioning and radioactive waste processing abroad as well and the provision of those services brings the company growth opportunities in that important segment of nuclear industry. From the point of view of number of concluded contracts and contracted performances, the year 2018 can be considered the second most successful year, after the year 2015, in the history of commercial activities when three contracts were concluded amounting to €7.55 million. Commercial services are provided by our company to the Czech Republic, Italy, Germany or Russia, consulting services are provided to companies in Spain, Bulgaria, Croatia and Iraq. In particular, I would highlight the new contract with the European Commission, covering consultancy in the chemical, biological and radioactive waste management areas for ten East and South European countries, performed in a consortium with further 6 foreign companies (Sustainable Criminal Justice Solutions CIC Limited, Institute for International Safety and Crisis Management, Public Health England, The Polish Military Institute of Chemistry and Radiometry, VERTIC and Cranfield University).

I find it very important to emphasize, in the context of providing services to our foreign partners, that the performance of international commercial activities brings our company new revenues and profit sources which means that our company is not only funded from public sources. Moreover, our company pays dividends to the state from produced profits and duly performs all other tax and fund contribution duties which contributes to improvements in economic conditions of the population in Slovakia to a significant extent. Our company also holds a significant position in international organizations. We respect acknowledgements to the work of our specialists received from prominent international organizations and we perceive them not only as a contribution for the company, but also as our commitment to further improve quality of our work.

I would also like to highlight the staff education area where a major objective is set to prepare and maintain competent staff members to ensure safe, reliable, ecological and economical operations of company's nuclear facilities in accordance with safety culture principles and ALARA principles. I am glad that this objective has been successfully met and JAVYS, a. s., nuclear facilities were operated by competent staff members.

The public relation area is also a significant area our company places an extraordinary emphasis on. That is why, last year, our company intensified regular meetings with self-government representatives and their citizens, media, but also in the internal communication area. We are convinced that our company provides objective information to the public by means of comprehensible, but, especially, timely communications, while effectively avoiding possible misunderstandings. I would like to appreciate correctness, responsiveness and factual approach in mutual communications on the part of the public and self-government representatives as well. It is important to our company that citizens perceive assurances that our company's activities endanger neither their health, nor the surrounding environment. That is why, our company also offered to self-government representatives possibilities to look in our and our partners' workplaces and verify the objectiveness of information provided by our company, in addition to standard communication tools such as regular participation of our company's representatives in meetings of Civic Information Commissions and regular meetings with the highest representatives of concerned municipalities. Our company continues to use possibilities to inform the public by means of the 'Javys u nás' works magazine that is distributed to all households in surrounding municipalities, to self-governments, schools and institutions and by means of media. In addition, the public have opportunities to get information on company activities

during visits to our company information centers in Jaslovské Bohunice and Mochovce, or by means of our company web site. I am pleased that we also had the chance this year to inform the public that last year our nuclear facilities were operated in compliance with valid and updated safety documentation approved by supervisory bodies of the Slovak Republic and no violation of the Technical Specifications for their safe operations occurred, that the year 2018 was successful in occupational health and safety and fire protection areas again.

Trade union representatives are the last but not least significant group JAVYS, a. s., is communicating with. Our company respects the staff members' right to associate in trade unions and regards their correct cooperation. Our company treats staff requirements or controversial issues in the form of social dialogue and makes attempts to achieve solutions optimal for both partners. At the same time, our company meets its obligations towards staff members and trade union organizations acting at the employer's.

In conclusion, I would like to say thank you to staff members of our company who take part in achieving positive results to a significant extent in all areas and I believe that the next year will also be a year when our company meets specified objectives and obligations towards our business partners and the whole society.

JUDr. Vladimír Švigár, Chief Executive Officer

2

COMPANY BODIES

THE BOARD OF DIRECTORS OF JAVYS, A. S.

Chairman

Ing. Peter Čižnár, PhD., MBA (by 1 July 2018)

Vice-Chairman

Ing. Anton Masár

Members

Ing. Ján Horváth
Ing. Miroslav Božik, PhD.
Ing. Tomáš Klein

THE SUPERVISORY BOARD OF JAVYS, A. S.

Chairman

RNDr. Ing. Pavol Švec, CSc.

Members

Mgr. Adrián Iványi
Ing. Ján Dudášik
JUDr. Eva Polerecká
RNDr. Roman Jakubec
Ing. Marián Vrtoch
Ing. Daniel Vašina

EXERCISE OF SHAREHOLDER RIGHTS

Jadrová a vyradovacia spoločnosť, joint stock company (JAVYS, a. s.), exercises its shareholder rights in Jadrová energetická spoločnosť Slovenska, joint stock company, a joint venture with a foreign shareholder where 51 % of stock of Jadrová energetická spoločnosť Slovenska, joint stock company, is owned by JAVYS, a. s., and 49 % of stock of Jadrová energetická spoločnosť Slovenska, joint stock company, is owned by the Czech Power Group ČEZ. By establishing Jadrová energetická spoločnosť Slovenska, joint stock company, a space was created to prepare the new nuclear source construction project in Jaslovské Bohunice, with the company activities being governed to the full extent by the Commercial Code and Company Statutes provisions in force.

3

ORGANIZATIONAL STRUCTURE AND HUMAN RESOURCES

ORGANIZATIONAL STRUCTURE



HUMAN RESOURCES

As to 31 December 2018, JAVYS, a. s., was employing 855 staff members, which is by 49 staff members more compared with the headcount as to the same period of last year.

Staff structure

	as to 31 Dec 2018	Share in %
Workers	188	21.99
Technical-administrative staff	667	78.01
Total	855	100.00

Staff structure by education level

	as to 31 Dec 2018	Share in %
Elementary	4	0,47
Secondary	523	61,17
University	328	38,36
Total	855	100,00

This number does not include inactive employees.

STAFF TRAINING AND EDUCATION

The training and education of staff members is an important process of providing qualified staff to perform operational and decommissioning activities on nuclear facilities in JAVYS, joint stock company (JAVYS, a. s.), the licence holder, managed and maintained by the quality documentation and supervised by the state regulatory body.

The Integrated Management System Manual defines the Professional Training Policy of JAVYS, a. s., staff members where the main company objective is specified as follows:

Prepare and maintain competent staff to ensure safe, reliable, ecological and economical operations of company nuclear facilities in spirit of safety culture principles and ALARA principles. The objective was successfully achieved, JAVYS, a. s., nuclear facilities were operated by competent staff who ensured safe, ecological and economical operations without any more marked negative impact on nuclear safety.

During the year 2018, the objective was successfully achieved within the meaning of planned professional training schedules and requirements specified by professional departments.

In connection with the licence to operate the nuclear facilities, all the conditions concerning the staff professional training were met. JAVYS, a. s., has qualified and professionally competent staff available intended to perform activities on nuclear facilities, within the meaning of the Staff Professional Training System. The performance in compliance with Act of the National Council of the Slovak Republic No. 124/2006, Coll., with the Ordinance

of the Ministry of Labour, Social Matters and Family of the Slovak Republic No. 508/2009, Coll., and with other legal regulations focused on safe performance of working activities on nuclear facilities was the main priority of the professional training in occupational activities.

As for their professional development, staff members participated in education courses and seminars aimed at safety attributes of demolition works during the decommissioning of nuclear facilities, at the management control and project management, they were trained in the performance of the revised act on personal data protection and completed education courses in cases of amendments to legal regulations of the Slovak Republic.

4

STRATEGY AND QUALITY ASSURANCE

The JAVYS, a. s., strategy is to fulfil the company vision and mission while respecting the Energy Security Strategy of the Slovak Republic and the Draft of the National Policy and the National Programme for the Management of Spent Nuclear Fuel and Radioactive Waste in the Slovak Republic.

JAVYS, A. S., STRATEGY IMPLEMENTATION IN 2018

a) Areas of RAW, SNF, IRAW and CRAM Management

Activities were performed to ensure the effective management of RAW, SNF produced in nuclear facilities in the Slovak Republic; the collection, loading and transports of institutional RAW, captured radioactive materials, as well as the provision of services within both the front and back end of the nuclear fuel cycle on the commercial basis. Nuclear facilities designed to manage RAW, IRAW, CRAM and SNF were operated in a safe, effective and reliable manner while meeting nuclear safety, radiation protection, occupational health and safety and environmental protection conditions so that no violation of Technical Specifications occurred during the operation of those facilities.

b) Area of A1 NPP Nuclear Facility Decommissioning

Activities related to the safe, effective and reliable A1 NPP decommissioning were performed in compliance with the Draft of the National Policy and the National Programme for the Management of Spent Nuclear Fuel and Radioactive Waste in the Slovak Republic, with the A1 NPP Decommissioning Plan, Stages III and IV and with the decommissioning concept for the period after the end of the stage to be permitted.

c) Area of V1 NPP Nuclear Facility Decommissioning

Activities related to the safe, effective and reliable V1 NPP decommissioning were performed in compliance with the V1 NPP Decommissioning Plan, Stage II, with the V1 NPP Decommissioning Strategy, with the Detailed Decommissioning Plan and with JAVYS, a. s., planning documents and in compliance with the Draft of the National Policy and the National Programme for the Management of Spent Nuclear Fuel and Radioactive Waste in the Slovak Republic.

d) Area of Company Development

Activities were performed in connection with preparations

and implementation of approved investment projects and with actions leading to the extension of SNF storage capacities and the development of a deep geological repository in the Slovak Republic and conditions were ensured for the operation of RWPTT nuclear facility, in compliance with requirements resulting from Act No. 24/2006, Coll., on Environmental Impact Assessment.

e) Areas of Finance and Services

In compliance with the economically stable company strategy, EBITDA performance was provided at the level specified in the business plan and financial budget for 2018. The procurement of contracts for goods, services and construction works was provided continuously on the basis of the JAVYS, a. s., Yearly Public Procurement Plan and the aggregate revenue volume from the sales of surplus property and recoverable material was in compliance with the plan.

f) Areas of Company Governance

As to 1 January 2018, the Organizational Structure and Functional Diagram of Jadrová a vyradovacia spoločnosť, a. s., was approved considering requirements for the meeting of objectives specified in the company strategy and in the business plan and the financial budget for 2018 and in the medium-term business plan.

The arrangement of organizational units and the assurance of the performance of individual processes and activities so that they correspond to company requirements and needs for further progress in the implementation of Stage II of the V1 NPP decommissioning and to activities related to Stages III and IV of the A1 NPP decommissioning were the reasons for the modification of the JAVYS, a. s., organizational structure and functional diagram.

The staff professional training was implemented in compliance with the planned company development and needs.

g) Area of International Commercial Activities

In 2018, the company continued the implementation of commercial projects, as well as the successful extension of its commercial activities.

QUALITY ASSURANCE

In 2018, based on the results of the recertification audit performed by DNV-GL company, JAVYS, a. s., obtained certificates according to standards ISO 9001 (Quality Management System), ISO 14001 (Environmental Management System) and OHSAS 18001 (Occupational Health and Safety Management System). The certificates are applicable to the following scope of activities: The decommissioning of nuclear facilities and the management of radioactive waste, institutional radioactive waste, captured radioactive materials and spent nuclear fuel.

Thus, the company consolidated its position in the national and international labour markets, especially in connection with the development of commercial activities within foreign tenders in the form of participating in individual projects related to the JAVYS, a. s., subject of activities.

The certificates obtained confirm that the process management of management systems in areas of quality assurance, environmental protection, occupational health and safety complies with high criteria and requirements of the international standards.

JAVYS, a. s., has also implemented a certified management system within the meaning of standard ISO/IEC 20000-1:2011 (IT Service Management System in compliance with the catalogue of administrative and support information services). The consistent compliance with requirements of the implemented integrated management system has a positive impact on the improvement in safety culture as well, which is one of nuclear safety management instruments in JAVYS, a. s.

The internationally recognized certificates confirm the correctness of the company heading towards the permanent quality improvement and help consolidate the company position in the national and international markets of nuclear services and achieve better overall company perception by the public in both Slovakia and the whole Central European region.

VALID TRANSPORT AND OPERATION LICENCES AND PERMISSIONS

Jadrová a vyradovacia spoločnosť, joint stock company, performs a lot of activities and operates multiple technological sets within its entrepreneurship. Many of such activities are permitted by the state and, in compliance with legal regulations in force, certain conditions need to be met in order to perform the activities. Following the meeting of those conditions, the issue of a decision by the relevant body is usually required, approving or permitting the given activity.

Many of JAVYS, a. s., activities are especially strictly regulated and supervised. For example, the peaceful use of nuclear energy, activities related to radiation exposure, but also additional activities require to adhere to relevant legal regulations so that correct, safe and reliable operations of technological sets and,

thus, of the whole company are ensured. The validity period of some licences is unlimited, that of many other licences is limited in time and it is necessary to update them.

Individual licences or permissions include activities some of which are related to multiple JAVYS, a. s., organizational units, namely within multiple divisions as well, that is why, individual licences and decisions are categorized by areas of given activities for the sake of clarity. Some of the licences have a nature of decisions by relevant bodies, or, possibly, they are licences issued on the basis of other facts (especially software licences). For the sake of completeness, the “Industrial Safety Certificate, level of SECRET” is also given herein, issued by the National Security Authority on 5 June 2015 with the validity period by 5 June 2020.

Overview of Current Transport and Operational Licences, or Permissions for Individual JAVYS, a. s., Technological Sets

Type of decision	Number
Decisions concerning nuclear facilities	7
Decisions concerning transport facilities	10
Decisions concerning activities leading to radiation exposure (A1 NPP decommissioning, RW PTT, ISFS)	59
Decisions concerning activities leading to radiation exposure (transports of RAW, IRAW, CRAM, UCE and SNF)	6
Decisions concerning activities leading to radiation exposure (management of RAW, IRAW, storage house construction)	5
Decisions concerning activities leading to radiation exposure (NRWR, VLLW)	9
Decision concerning activities leading to radiation exposure (FP LRW)	3
Decision concerning activities leading to radiation exposure (IRWS)	1
Decision concerning activities leading to radiation exposure (RW PTT – bitumen product storage)	1

Decision concerning activities leading to radiation exposure (container with RAW from “Mogilník”)	1
Decision concerning activities leading to radiation exposure (ext. of radiation controlled area around the Active Water Purification Plant)	1
Decision concerning activities leading to radiation exposure (positioning of containers - Machine Hall)	1
Decisions concerning activities leading to radiation exposure (occupational health service)	3
Decisions concerning activities leading to radiation exposure (performed by the A1 Decom. and RAW and SNF Manag. Division)	5
Decisions and mandatory positions concerning activities leading to radiation exposure (V1 NPP decommissioning)	18
Decisions issued for the area of business – power engineering	2
Decisions issued for the environmental protection area	11
Decisions issued for the area of railway transport operations	11

5

YEAR IN BRIEF

17 – 18 APRIL

European Commission representatives Robert Kunde and Katja Mravlak paid a visit to JAVYS, a. s. Within the framework of regular monitoring of implemented works concerning the V1 NPP decommissioning, they became familiar with actual states of individual projects and activities planned under the Bohunice Programme.

22 APRIL – 23 MAY

6th edition of the “Nuclear Days in Plzeň” event took place, aimed at the promotion of nuclear energy use in the form of professional lectures and exposition of exhibits from all over the world. JAVYS, a. s., provided exhibits for the exposition and presented its experience

in activities from the back end of the nuclear power engineering in Slovakia, particularly, from the A1 NPP and V1 NPP decommissioning and radioactive waste management areas.

4 JUNE

During the ENEF 2018 Conference (European Nuclear Energy Forum), that was held under the auspices of the European Commission in Bratislava from 4 to 5 June 2018, top representatives of Jadrová a vyradovacia spoločnosť, a. s. (JAVYS, a. s.) and Správa úložisk rádioaktívnych odpadov (SÚRAO/RAW Repository Administration) from the Czech Republic signed a Memorandum of Understanding in areas of exchange of information and experience in the research and development in the deep geological repository construction process.

26 – 28 JUNE

JAVYS, a. s., introduced itself at the WORLD NUCLEAR EXHIBITION 2018 in Paris for the first time by means of its own stand as the only company from among V4 countries. The objective of the participation in the exhibitor role was to offer services to potential customers searching for services in areas of radioactive waste and institutional radioactive waste management and nuclear facilities decommissioning.

1 JULY

The Head of Board of Directors and CEO, Ing. Peter Čižnár, PhD., MBA, finished his activities in JAVYS, a. s. Since 2 July, Ing. Anton Masár, the Director of Finance and Service Division has been entrusted with the exercise of Chief Executive Officer 's authorities.

4 SEPTEMBER

Mr. Hrvoje Prpica, the Director of the Croatian Nuclear Fund, paid a visit to NRWR in Mochovce. In particular, he was interested in technical aspects of the Repository operation and looked over the operated disposal spaces of low-level and very low-level radioactive wastes.

14 SEPTEMBER

The JAVYS, a. s., Board of Directors, based on selection procedure results, and following the discussion in the JAVYS, a. s., Supervisory Board, appointed JUDr. Vladimír Švigár to the position of Jadrová a vyraďovacia spoločnosť, a. s., Chief Executive Officer.

19 SEPTEMBER

Participants of the international training course aimed at the planning and appreciation of decommissioning organized by JAVYS, a. s., paid a visit to NRWR in Mochovce.

26 SEPTEMBER

A regular site-wide emergency drill Vřba 2018 (Willow 2018) took place on the nuclear power engineering complex site in Jaslovské Bohunice. Its aim was to verify activities to be performed by the JAVYS, a. s., Emergency Response Organization, as well as procedures for the identification, classification, localization and liquidation of consequences of simulated events. 639 persons took part in the drill.

1 OCTOBER

The last V1 NPP cooling tower was demolished. All four cooling towers belonging to the shutdown V1 NPP were a part of panorama of Jaslovské Bohunice surroundings for more than forty years.

4 – 5 OCTOBER

A regular monitoring mission assessing the state of work on the V1 NPP being decommissioned took place with the participation of European Commission representatives Robert Kunde and Aurelia Durand. During their visit, the guests were interested in the implementation of dismantling of large primary circuit components in the reactor hall and monitored the course of conclusive demolition work on the last V1 NPP cooling tower.

18 OCTOBER

Representatives of SERAW and IDOM companies visited the Information centre in Jaslovské Bohunice and looked over technological equipment designed to process radioactive waste in the Bohunice Radioactive Waste Processing Centre.

9 NOVEMBER

Members of the Board of Administrators of the National Nuclear Fund (NNF) held a meeting in JAVYS, a. s., in Jaslovské Bohunice within the framework of regular sessions. The agenda included an inspection of processing lines of the Radioactive Waste Treatment and Conditioning Technologies nuclear facility.

19 NOVEMBER

A joint meeting of social partners was held in the JAVYS, a. s., seat in Bratislava. JUDr. Vladimír Švigár, the Chief Executive Officer, led the meeting on behalf of the Employer. Each trade union organizations – ZO JAVYS, ZO ZOJES and AO JAVYS – was represented by two members. The purpose of the meeting was to assess the social partnership and the performance of obligations agreed in the Company Collective Bargaining Agreement for the years 2017 to 2018.

10 – 13 DECEMBER

The meeting of requirements specified by standards ISO 9001:2015 (Quality Assurance), ISO 14001:2015 (Environmental Protection) and OHSAS 18001 (Occupational Health and Safety) was reviewed by auditors of DNV GL certification company. JAVYS, a. s., has met the requirements of those international standards and maintained the validity of certificates of the mentioned management systems for the year 2019 as well.

12 DECEMBER

A meeting among the company management and Jaslovské Bohunice region self-government representatives took place in Malženice. Its objective was to inform the self-government representatives on actual projects in processes of the A1 NPP and V1 NPP decommissioning and radioactive waste and spent nuclear fuel management.

18 DECEMBER

A joint meeting among the JAVYS, a. s., Board of Directors and AO JAVYS and ZO ZOJES representatives was held that finished the collective bargaining and, subsequently, the Company Collective Bargaining Agreement for the years 2019 – 2020 was signed.

2018

In 2018, JAVYS, a. s., ensured 14 cases of capture of radioactive materials of unknown origin. They were especially miscellaneous parts of agricultural and military technology.

JAVYS, a. s., transported 332 assemblies of spent nuclear fuel from the V2 NPP in Jaslovské Bohunice and the NPP in Mochovce to the Interim Spent Fuel Storage in Jaslovské Bohunice. Both the spent nuclear fuel transport and management is one of the areas of activities that are performed and provided by JAVYS, a. s., as a service to Slovenské elektrárne, a. s. (Slovak Power Plants, a. s.).

6

DECOMMISSIONING OF NUCLEAR FACILITIES

V1 NPP DECOMMISSIONING

The decommissioning of the nuclear power plant in Jaslovské Bohunice, i. e., two V1 reactor units, was scheduled in two stages from 20 July 2011 to 31 December 2025. The objective of the V1 NPP decommissioning is to achieve the exemption of the nuclear facility from the scope of application of the Atomic Act by means of the dismantling of equipment, demolitions of buildings, management of waste originating from the V1 NPP decommissioning, including the processing and safe disposal of radioactive waste (RAW) in the National Radioactive Waste Repository in Mochovce, or their safe storage in the Interim Radioactive Waste Storage on the Jaslovské Bohunice site. The V1 NPP site will be released for industrial use after the completion of the decommissioning.

The Nuclear Regulatory Authority of the SR issued Decision No. 900/2014 of 23 December 2014, based on which the implementation of Stage II of the V1 NPP nuclear facility decommissioning started in 2015. The decision also included the permission to manage radioactive waste and the permission to manage nuclear materials in the V1 NPP nuclear facility.

During the year 2018, the implementation of activities related to the V1 NPP decommissioning continued in compliance with the Plan for Stage II of the Decommissioning and in accordance with the relevant decision of the Nuclear Regulatory Authority of the SR for Stage II of the V1 NPP decommissioning.

MAIN V1 NPP DECOMMISSIONING ACTIVITIES IN 2018

- locking and disconnection of systems,
- implementation of projects – dismantling of unnecessary equipment and systems,
- implementation of projects – decontamination of reactor coolant system equipment prior to their dismantling,
- implementation of projects – dismantling of equipment and large components of the reactor coolant system at both the V1 NPP reactor units
- implementation of projects – demolition of NPP cooling towers,
- management of radioactive, conventional and hazardous wastes,
- implementation of projects – modifications of power plant and equipment and systems used during the V1 NPP decommissioning,
- preparations of technical and tender documentation for projects of the V1 NPP decommissioning, Stage II.

In 2018, the D2.1 project *“Decontamination of Spent Fuel Pools and Other Contaminated Tanks in the V1 NPP – Part 1”*, completion was important from the point of view of the implementation of the overall V1 NPP Decommissioning Project and the assurance of the continuity of the

V1 NPP decommissioning. In February 2018, the implementation of all planned actions was completed to the full scope and the project was successfully finished. This project is an inevitable predecessor to projects D4.4.B *”Dismantling of Systems in V1 NPP Controlled Area – Part 1”* and D4.4C *”Dismantling of Systems in V1 NPP Controlled Area – Part 2”*. During the year 2018, the implementation of the extensive project D4.2 *”Dismantling of Reactor Coolant System Large Components”*, continued; its completion is expected in the year 2022. The implementation project D4.4.B *”Dismantling of systems in V1 NPP controlled area – Part 1”* continued successfully in parallel with the above project as well.

In May 2018, the project A5-A3 *”Optimisation of Electric Scheme”* was completed within the planned time period and in required quality, its subject being the optimisation and modification of the power supply to individual equipment.

In June 2018, the project C15-A *”Integrated Computer System for V1 NPP Decommissioning Logistic System”* was completed within the planned time period and in required quality, its subject being the design and implementation of the integrated computer system for the V1 NPP decommissioning logistic support system, considering interconnections with all V1 NPP decommissioning projects participating in the material flow generation.

In July 2018, the project D4.4A *”Auxiliary Buildings System Removal – Stage 1”* was completed, its subject being the dismantling of technological equipment within the radiation controlled area and modifications of emptied spaces in order to establish handling and temporary storage spaces for very low-level waste originating from the V1 NPP decommissioning.

In December 2018, the construction of disposal spaces for low-level waste – 3rd double-row within the meaning of the applicable building permit and detailed design documentation was completed within the framework of the project C9.4 *”Design and Erection of New Disposal Facilities for LLW and VLLW from V1 NPP Decommissioning*

at NRWR Mochovce”. At the end of the year 2018 the As-Built documentation was delivered and preparations were made to develop the documentation necessary for the NRA SR decision to commission the equipment the issuance of which is expected in the first half of the year 2019.

In November 2018, the project D3.1B *”Dismantling and Demolition of V1 NPP Cooling Towers”* was completed successfully. Within the project, the following were implemented to the full scope: all works related to the cleaning of premises from hazardous asbestos materials, the crushing of concretes from 4 V1 NPP cooling towers and related buildings.

PREPARATION OF PERIODIC DOCUMENTS

In connection with the V1 NPP decommissioning project management in compliance with the European Union requirements and in accordance with Council Regulation (EURATOM) No. 1368/2013 of 13 December 2013, JAVYS, a. s., prepared, revised, and approved he following periodic documents during the year 2018.

- **Monitoring Reports for the Bohunice Programme (assessment period 7 – 12/2017 and 1 – 6/2018)**

Since 2015, monitoring reports have been prepared regularly twice a year where the progress in the V1 NPP decommissioning is monitored and assessed for the monitored time period. The documents serve to the Monitoring Commission to compare planned objectives from the relevant work plan with results achieved for the monitored time period.

- **Work Plan for the Bohunice Programme (2019 - 2020)**

The document sets out objectives, planned data necessary for calculations of V1 NPP decommissioning performance indicators and the time schedule of absorbing funds for calendar

years 2019 to 2020. The document will serve as a background material for the European Commission to monitor the progress in the V1 NPP decommissioning for calendar years 2019 to 2020.

MONITORING AND AUDIT

In April and October 2018, European Commission representatives paid regular visits to JAVYS, a. s., to monitor the progress in the V1 NPP decommissioning.

BOHUNICE PROGRAMME

V1 NPP decommissioning activities are co-financed from the EU Financial Support Provision Programme for measures related to the V1 NPP decommissioning through the Bohunice International Decommissioning Support Fund (BIDSF). The BIDSF funds intended for the implementation of individual V1 NPP decommissioning projects are absorbed on the basis of grant agreements concluded between JAVYS, a. s., and the European Bank for Reconstruction and Development (EBRD). The signing of agreements themselves is preceded by the preparation of documentation to individual projects when JAVYS, a. s., as the beneficiary of the BIDSF fund financial assistance, identifies the individual projects at first, proposes methods of their technical implementation and funding, presents them during a meeting of the SR-EBRD Joint Committee and, finally, defends them by means of the National Coordinator (the Ministry of Economy of the Slovak Republic) during the Assembly of BIDSF Contributors session that is held twice yearly.

As to the end of 2018, JAVYS, a. s., had 18 signed grant agreements with EBRD available in the total amount of €467 million to

finance the V1 NPP decommissioning projects. In August 2016, activities of the national implementation authority for the V1 NPP decommissioning – the Slovak Innovation and Energy Agency (SIEA) – were commenced. SIEA represents a parallel way of financing the V1 NPP decommissioning projects by EU funds, in addition to the funding by means of the EBRD implementation authority (BIDSF fund). Since 2016, the EU funds for the Bohunice Programme have been reallocated between the two above mentioned implementation authorities. On the basis of the European Commission Implementation Decision of 8 October 2018, funds amounting to €32,819,000 were allocated for the benefit to SIEA as the EU financial assistance for the decommissioning of nuclear power plants for the calendar year 2018. Cumulatively, EU funds amounting to €127,316,000 were allocated for the benefit of SIEA since the commencing of its activities as to 31 December 2018.

In July 2017, a grant agreement was signed between JAVYS, a. s., and SIEA for the D4.4C.01 project Dismantling of Systems in V1 NPP Controlled Area – Part 2 amounting to €26,296,00.

Projects to which grants were awarded from EU funds in 2018

- Project A1.9 PMU Consultant (Stage 9)

Contracts Concluded for the BIDSF Projects in 2018

During the year 2018, a contract was concluded with the D19.1 project “Upgrade of PMU Hardware Equipment” supplier.

Costs and Funds to Cover the V1 NPP Decommissioning for the Period from 7/2011 to 2018 (€)

V1 NPP	2011	2012	2013	2014	2015	2016	2017	2018	Total
Total costs (Operational and investment)	26,070,182	46,307,673	44,523,089	67,078,417	51,745,947	45,853,912	54,175,036	79,068,141	414,822,397
Coverage funds									
NNF including depreciation	7,835,280	7,868,682	17,556,993	19,482,985	17,821,832	17,216,178	17,312,759	16,526,358	121,621,067
BIDSF incl. D0 and depreciation	10,936,129	25,448,338	25,774,314	46,605,562	32,389,849	27,853,127	35,817,132	62,521,164*	267,345,615
JAVYS. a. s.	7,298,773	12,990,653	1,191,782	989,870	1,534,266	784,606	1,045,145	20,619	25,855,714
Total funds	26,070,182	46,307,673	44,523,089	67,078,417	51,745,947	45,853,912	54,175,036	79,068,141	414,822,397
Of that: Slovak funds	15,134,053	20,859,335	18,748,775	20,472,855	19,356 098	18,000,784	18,357,904	16,546,977	147,476,781

* BIDSF funds for funding V1 NPP in the ISDC structure

% of financing for the V1 NPP decommissioning from Slovak funds: 36 %

Projects under Implementation during the Year 2018

Project code	Project name	Course of implementation
A1.8	PMU Consultant (Phase 8)	01/2017 – 12/2018
A5-A3	Optimisation of Electric Scheme	11/2016 – 05/2018
B6.6A	Decommissioning Support Surveys	03/2017 – 03/2022

C7-A4	Metallic RAW Melting Facility	09/2016 – 06/2019
C9.4	Design and Erection of New Disposal Facilities for LLW and VLLW from the V1 NPP Decommissioning at NRWR Mochovce	01/2016 – 05/2019
C15-A	Integrated computer system for V1 NPP decommissioning logistic system	09/2014 – 06/2018
D0	Implementation of the Decommissioning Programme Using the Human Resource Available at Bohunice V1 NPP	01/2018 – 12/2019
D2.1	Decontamination of Spent Fuel Pools and Other Contaminated Tanks in the V1 NPP – Part 1	10/2016 – 02/2018
D3.1B	Dismantling and Demolition of V1 NPP Cooling Towers	08/2016 – 11/2018
D4.1	Modification of the Plant and Installation of New Equipment	02/2017 – 02/2020
D4.2	Dismantling of Reactor Coolant System Large Components	10/2017 – 12/2022
D4.4A	Auxiliary Buildings System Removal – Stage I	05/2016 – 07/2018
D4.4B	Dismantling of Systems in V1 NPP Controlled Area – Part 1	09/2017 – 03/2021
D4.4A1	Modification of Equipment in AKOBOJE System	04/2017 – 04/2019
D19.1	Upgrade of PMU Hardware Equipment	08/2018 – 10/2018

Projects Completed in the Year 2018

Project code	Project name	Course of implementation
A5-A3	Optimisation of Electric Scheme	11/2016 – 05/2018
C15-A	Integrated computer system for V1 NPP decommissioning logistic system	09/2014 – 06/2018
D2.1	Decontamination of Spent Fuel Pools and Other Contaminated Tanks in the V1 NPP – Part 1	10/2016 – 02/2018
D3.1B	Dismantling and Demolition of V1 NPP Cooling Towers	08/2016 – 11/2018
D4.4A	Auxiliary Buildings System Removal – Stage I	05/2016 – 07/2018
D19.1	Upgrade of PMU Hardware Equipment	08/2018 – 10/2018

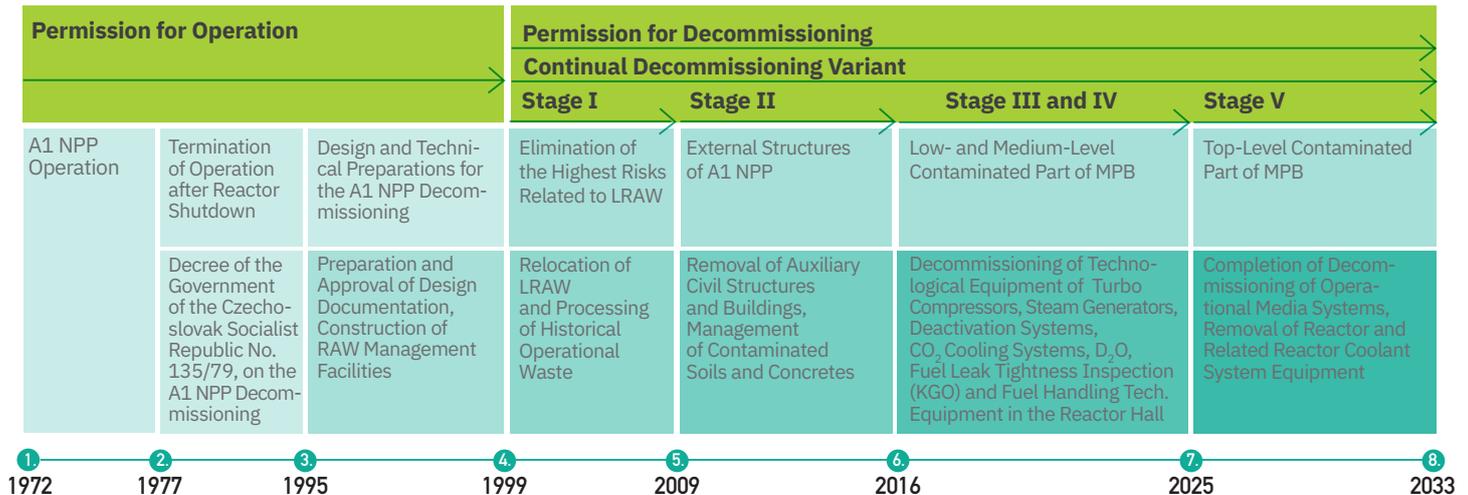
As to 31 December 2018, 59 projects was completed, 9 projects were under implementation and 1 project was under preparations for the procurement.

A1 NPP DECOMMISSIONING

The A1 NPP decommissioning is implemented in a continuous decommissioning process, divided into five consecutive stages, with the completion of the A1 NPP decommissioning scheduled for 2033. The implementation of Stage I of the A1 NPP decommissioning was commenced in 1999 and it was completed in 2009. Since 2009, the A1 NPP decommissioning had continued by

Stage II which was completed as to 30 September 2016, after the achievement of all the determined objectives specified in the permission documentation approved by state administration bodies. Since 1 October 2016, the continuous process of the A1 NPP decommissioning has proceeded by Stages III and IV within the meaning of the permission documentation approved by the state administration bodies.

A1 NPP Decommissioning Timeline



The subject of the running A1 NPP decommissioning Stages III and IV includes the decommissioning of the reactor coolant system technological equipment, the technological equipment used in the past to prepare spent nuclear fuel for the transport, two steam generators, the turbo compressor oil management system, the heavy water management system technological equipment, the CO₂ management system, the primary circuit technological equipment cooling system and other connected and related technological equipment found within the A1 NPP Main Production Building. The A1 NPP decommissioning Stages III and IV also include the continuation of processing the radioactive waste originating from the decommissioning and historical radioactive waste. In compliance with objectives of the A1 NPP decommissioning Stages III and IV, the following activities were performed in particular in the year 2018:

- processing of 28 pieces of A1 NPP SNF long-term storage caskets,
- processing of 2 m³ of chrompik III medium originating from the A1 NPP SNF long-term storage caskets, using VICHR (chrompik vitrification) technological line,
- processing of 3.8 m³ of sludge originating from the A1 NPP SNF long-term storage pool, using SUZA (mobile fixing facility) technological line, including the production of 149 pieces of 200-litre barrels with a fixed product,
- processing of 33.81 m³ of sludge from tank 1/2 in the LRAW repository, using ZFK (sludge fixing facility), including the production of 410 pieces of 200-litre barrels with a fixed product,
- decommissioning of the D₂O management system technological equipment, the CO₂ cooling system technological equipment, sipping and health physics supervision system technological equipment and the control system of dividing valves in the Reactor Building,
- decommissioning of technological systems constituting

the turbo compressor oil management system, cooling water distribution pipelines, emergency safety valves and the steam generator feedwater pipelines including electrical equipment, I & C equipment and HVAC systems in the Intermediate Machine Hall,

- decommissioning of technological equipment of CO₂, pipeline systems and the HVAC system found in the gas management system building,
- decontamination of civil structures and backfilling of solid RAW repository pits
- decommissioning of the underground HVAC pipeline channel in external A1 NPP buildings,
- decontamination of civil structural parts, the management of soils and concretes, the radioactive material monitoring, the monitoring and sanitation of ground water and percolating ground water and the implementation of the roofing above the filled-up storage strip in the Very Low-Level RAW Repository in Mochovce.

By means of the continuation to process radioactive waste originating from the A1 NPP decommissioning and of historical radioactive waste resulting from operations, JAVYS, a. s., implemented all planned A1 NPP decommissioning activities in 2018, in compliance with the schedule of works for the year 2018, derived from the A1 NPP Decommissioning Plan, Stages III and IV approved by relevant state administration authorities. The determined plan of activities for the year 2018 in the A1 NPP decommissioning area, including the management of radioactive waste originating from the A1 NPP decommissioning, was fulfilled to the full extent with the adherence to principles of nuclear safety, radiation protection, occupational health and safety, fire protection and environmental protection.

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RADIOACTIVE WASTE MANAGEMENT

Individual activities within radioactive waste (RAW) management processes were performed in the following nuclear facilities of the company, while adhering to conditions of nuclear safety, radiation protection, occupational health and safety, fire protection and environmental protection:

- **RW PTT** – Radioactive Waste Processing and Treatment Technologies in Jaslovské Bohunice,
- **FP LRW** – Final Processing of Liquid Radioactive Waste in Mochovce,
- **NRWR** – National Radioactive Waste Repository in Mochovce,
- **IRWS** – Interim Radioactive Waste Storage in Jaslovské Bohunice.

RADIOACTIVE WASTE PROCESSING AND TREATMENT

The implementation of the A1 NPP and V1 NPP decommissioning processes themselves within the scope of the management of radioactive waste originating from the decommissioning of those nuclear facilities, moreover, the management of radioactive waste originating from the V1 NPP and EMO1,2 reactor units operated by Slovenské elektrárne, joint stock company, as

well as the management of radioactive waste originating from non-nuclear facilities, is the key task for the operation of the following nuclear facilities – the Radioactive Waste Processing and Treatment Technologies in Jaslovské Bohunice and the Final Processing of Liquid Radioactive Waste in Mochovce. The RW PTT nuclear facility consists of the Bohunice Radioactive Waste Treatment Centre (BRWTC), bituminisation lines, the low-level water purification plant, radioactive waste sorting workplaces, metallic radioactive material fragmentation and decontamination workplaces, used HVAC filters and used electrical cables processing workplaces.

Facilities processing radioactive concentrates and saturated ionexes from EMO1,2 operations are operated in the FP LRW nuclear facility.

Subsequently, the processed low-level RAW are inserted into fibre concrete containers and treated by cementation in RW PTT and FP LRW nuclear facilities and transported to the JAVYS, a. s., National RAW Repository in Mochovce. In 2018, 249 pieces of fibre concrete containers comprising RAW were treated in this manner in RW PTT and 53 pieces of fibre concrete containers comprising RAW were treated in this manner in FP LRW.

Overview of Amounts of Processed and Treated Radioactive Waste in 2018

Nuclear facility	Type of RAW (measuring units)	Processed amounts
RW PTT	Combustible solid RAW (t)	118.246
	Combustible liquid RAW (m ³)	13.257
	Compactable RAW (t)	420.934
	Metallic RAW (t)	290.986
	Liquid RAW (m ³)	279.786
	Used HVAC filters (t)	14.909
FP LRW	Liquid RAW (m ³)	53.05
	Saturated ionexes (m ³)	28.398

RAW TRANSPORTS

During the year 2018, 853 transports of RAW were performed in the following certified transport package sets: 200 l Meva barrel, ISO container, shipping containers PK I/DOW, PK II /SLUDGES, PK III /BARRELS, PK/SK, PK/SK 2 and FCC.

RAW DISPOSAL

The National Radioactive Waste Repository nuclear facility in Mochovce serves for the final disposal of treated low-level RAW and very low-level RAW produced during operations and decommissioning of nuclear facilities in the territory of the Slovak Republic, institutional RAW and RMUO.

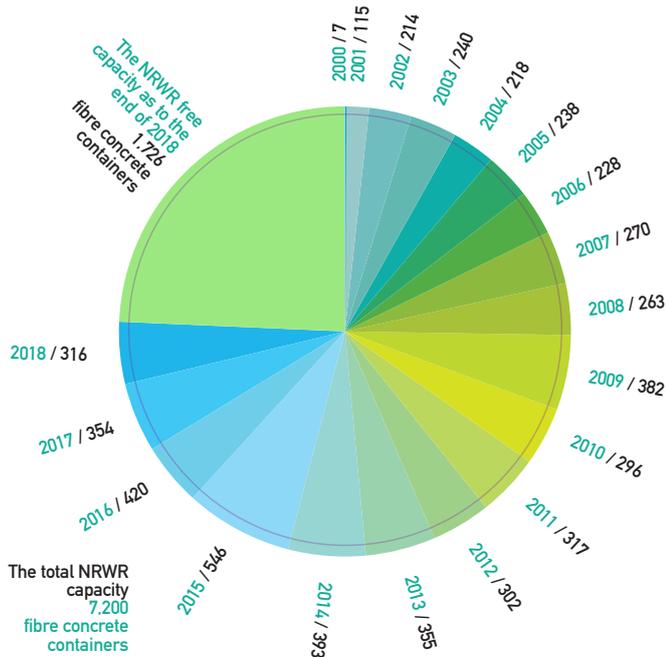
Fibre concrete containers filled-up with treated low-level RAW are finally disposed in storage boxes of operated double rows in the Repository, after their transportation from RW PTT and FP LRW nuclear facilities. During the year 2018, 316 fibre concrete containers with RAW were stored in the second double row of storage boxes.

Since 2016, approved packed forms (large-volume bags and barrels) have been stored in the VLLW Repository disposal structures containing that type of waste. During the year 2018, 4,184.88 m³ of very-low level RAW were stored in the VLLW Repository.

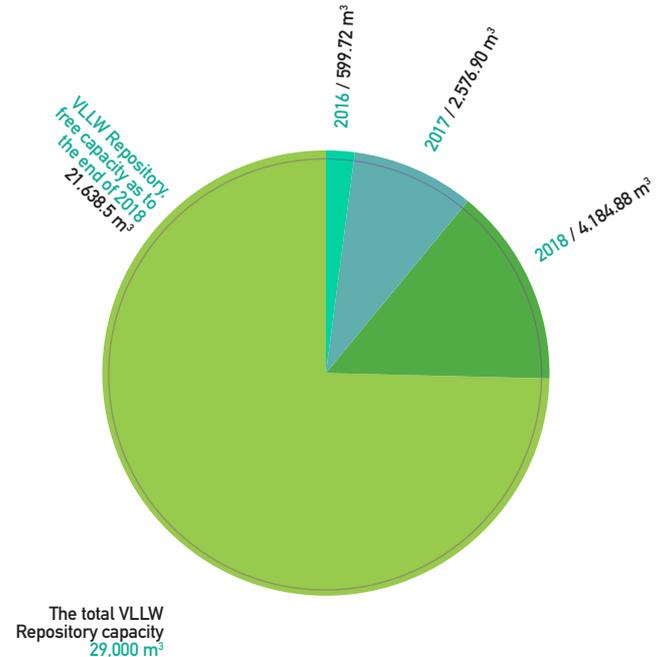
Overview of FCC Storage in NRWR in 2018

FCC storage in NRWR (pcs)		Total number of FCC stored in NRWR (pcs)
RW PTT	FP LRW	
252	64	316

Overview of NRWR Capacity Occupation as to 31 December 2018



Overview of VLLW Repository Capacity Occupation as to 31 December 2018



IRAW AND RMUO MANAGEMENT

JAVYS, a. s., is an organization authorized to manage emitters and radioactive materials of unknown origin (RMUO), unused emitters and radioactive materials. In 2018, 14 captures of sources of ionizing radiation of unknown origin were performed, representing, for example, parts of agricultural and military equipment, an emitter in a protective packing, or other forms of ionizing radiation emitters. From their contamination point of view, radionuclides ^{60}Co (Cobalt), ^{137}Cs (Caesium) and ^{226}Ra (Radium) were especially identified. Following their identification, those radioactive materials were transported to be further managed in JAVYS, a. s., nuclear facilities, or in the IRAW and CRAM Management Facility on the Mochovce site.

In addition, based on concluded contractual relationships with individual IRAW producers, takeovers with subsequent transports and further management of IRAW were performed, the total IRAW weight being 851,023 kg, while 2.923 kg out of that amount were radioactive materials. The following companies were the IRAW producers: NURCH Piešťany, Vojenský útvar 1056 Zemianske Kostoľany, ÚVUH Bratislava, Štátny veterinárny a potravinový ústav Nitra, Východoslovenský onkologický ústav, a. s., Košice, SLOVALCO, a. s., Žiar nad Hronom. Above all, the IRAW were represented by used closed emitters, liquid scintillators, liquid and solid reference standards, contaminated laboratory waste (gloves, glass, etc.), contaminated debris and uranyl.

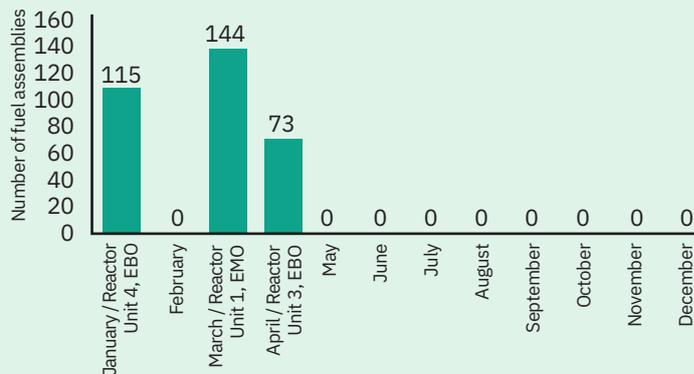
8

SPENT NUCLEAR FUEL MANAGEMENT

Following the achievement of determined parameters, spent nuclear fuel produced in reactor units of nuclear power plants in the Slovak Republic is subsequently transported and stored in the long term in the JAVYS, a. s., Interim Spent Fuel Storage nuclear facility in Jaslovské Bohunice.

In 2018, the total of 332 pcs of spent fuel assemblies was transported from the V2 NPP and EMO nuclear facilities to the Interim Spent Fuel Storage. The overview of numbers of fuel assemblies transported in individual months of 2018 is shown on the following diagram.

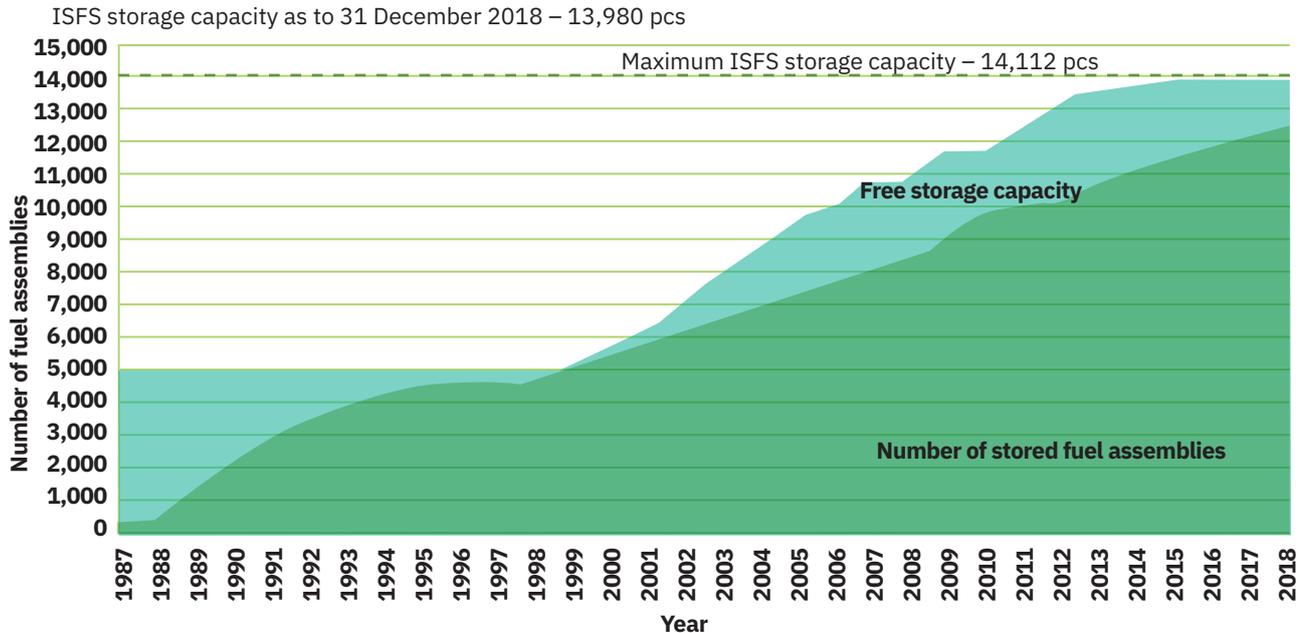
Numbers of fuel assemblies transported in individual months of 2018



In 2018, spent nuclear fuel was stored in three storage pools on the Interim Spent Fuel Storage, in containers of KZ-48 and T-13 types. The fourth pool provided the function of a reserve pool. As to

31 December 2018, the total of 12,374 pcs of fuel assemblies were stored in ISFS, out of which 5,143 pcs originated from the V1 NPP, 5,167 pcs came from the V2 NPP and 2,064 pcs originated from EMO 1,2.

Overview of Continuous ISFS Filling with Spent Nuclear Fuel as to 31 December 2018



As to 31 December 2018, 12,374 pcs of spent nuclear fuel were stored in the ISFS nuclear facility which represents 87.7 % filling of its maximum designed capacity. With regard to the real ISFS filling, JAVYS, a. s., has been implementing the investment project

“Completion of Construction of ISFS Storage Capacity on the Jaslovské Bohunice Site“, in compliance with the approved schedule, since the year 2018. The assumed commissioning date for Spent Nuclear Fuel Storage Module 1 is scheduled for the year 2021.

NUCLEAR SAFETY

The compliance with the requirements for nuclear safety is a priority for JAVYS, a. s. This was declared in the policy and objectives, which are among top documents of the company integrated management system.

The JAVYS, a. s., Safety Policy is linked to the following tasks:

- ensure safe, reliable and effective operations of nuclear facilities,
- ensure the liquidation of nuclear facilities and disposal of radioactive materials after the end of their usage,
- implement the whole decommissioning process of nuclear facilities, starting with processes of proposal, design, design verification and subsequent implementation, with the concurrent operations of necessary facilities,
- ensure reliable and safe V1 NPP decommissioning in order to free the site for industrial purposes,
- ensure reliable and safe treatment, conditioning, storage and disposal of radioactive waste from nuclear power plants, including institutional radioactive waste,
- ensure reliable and safe management of spent nuclear fuel from nuclear power plants in the Slovak Republic.

Requirements of legal regulations of the Slovak Republic and nuclear safety supervisory authorities were met for all nuclear facilities operated by the company on Jaslovské Bohunice and Mochovce sites. During the year 2018, the nuclear facilities were operated in accordance with the valid and current safety documentation approved by the supervisory authorities of the Slovak Republic, without any violation of the Technical Specifications for their safe operations, or decommissioning.

In order to ensure safe V1 NPP decommissioning, new disposal facilities are necessary for which the Final Safety Analysis Report, issue No. 5, was approved for the NRWR in Mochovce nuclear facility. The construction of two independent disposal facilities, one of them being intended for Low-Level RAW (3rd double row for treated RAW in fibre concrete containers) and the other for Very Low-Level RAW (the extension of the new disposal facility for VLLW), was the objective of project C9.4 „Design and Construction of New Storage Spaces for Low-Level Waste and Very Low-Level Waste from V1 NPP Decommissioning in Mochovce (NRWR)“. Amendments to legal regulations issued by the Ministry of Health Care of the Slovak Republic in the form of the new Act No. 87/2018, Coll., on Radiation Protection and on Amendments to Certain Acts were also incorporated in the Final Safety Analysis Report.

JAVYS, a. s., nuclear facilities operation safety assessments were performed by means of operation safety indicators in quarterly periods. The assessments achieved confirmed that professional work was performed by the staff and high reliability was shown by the technological equipment.

No safety significant operational event was identified during the assessed time period.

The total of 45 inspections was performed by NRA SR inspectors during the year 2018. Out of that:

- 19 inspections were aimed at supporting activities for JAVYS, a. s.
- 7 inspections were performed at the V1 NPP,
- 6 inspections were performed at the A1 NPP,
- 2 inspections were performed at RW PTT,
- 3 inspections were performed at ISFS,
- 1 inspection was performed at FP LRW ,
- 5 inspections were performed at NRWR ,
- 2 inspections were performed at IRWS.

The inspections were focused on, e. g., checks whether nuclear safety conditions and supervisory requirements were met during the V1 NPP and A1 NPP decommissioning, RAW management within the FP LRW nuclear facility, spent nuclear fuel storage in ISFS and during RAW and nuclear material transports. Moreover, the Nuclear Safety Authority verified the licence holder's security system and staff professional training. As for the emergency preparedness area, an inspection of the Emergency Response Organization interoperation was performed during the site wide emergency drill, and the courses of NRWR and IRWS emergency drills were inspected as well.

In 2018, IAEA inspectors performed 3 physical inventory checks of nuclear materials in three JAVYS, a. s., nuclear material balance areas on the Bohunice site, one physical inventory check of nuclear materials in the IRAW and CRAM Management Facility in Mochovce, one inspection of short reporting period nuclear materials in ISFS and one inspection focused on the A1 NPP decommissioning state check.

The Nuclear Regulatory Authority of the Slovak Republic issued the total of 67 decisions to JAVYS, a. s., in 2018, out of which the following are the most significant ones:

- Based on the Decision No. 12/2018, the NRA SR issued the approval to implement a change affecting nuclear safety during the operation of the RW PTT nuclear facility within the scope of the loose RAW dosing node addition,
- Based on the Decision No. 113/2018, the NRA SR issued the approval to implement a change in the ISFS nuclear facility within the scope of the building permit design "Construction of ISFS Tapping Plant and Installation of Pipeline Routes for the Tapping of Regeneration and Decontamination Solutions",
- Based on the Decision No. 190/2018, the NRA SR issued the approval to implement a change affecting nuclear safety during the V1 NPP nuclear facility decommissioning within the scope of the commissioning of "V1 NPP Large-Capacity Fragmentation and Decontamination Facilities" in compliance with the document 5-PRG-04-3230/2015 "Active Complex Testing Programme for BIDSF C7-A3 Fragmentation and Decontamination Workplaces", issue No. 2,
- Based on the Decision No. 212/2018, the NRA SR issued the approval to implement a change affecting nuclear safety during the RW PTT nuclear facility operation within the scope of DZM No. 5304/2017 – "Optimisation of RAW Incineration Capacities" – implementation,
- Based on the Decision No. 235/2018, the NRA SR issued the approval to implement a change affecting nuclear safety during the V1 NPP nuclear facility decommissioning within the scope of implementation of the project "BIDSF D4.2 Dismantling of Reactor Coolant System Large Components, Dismantling of Combined Equipment" and to implement a change in the documentation

reviewed by the Authority in relation to the following documents: Amendment No. 3 to the V1 NPP Decommissioning Plan, Stage 2, B6.5-D14, and the Management and Transport Plan of RAW originating from the V1 NPP Decommissioning, Stage 2,

- Based on the Decision No. 319/2018, the NRA SR issued the approval to implement a change affecting nuclear safety during the V1 NPP nuclear facility decommissioning within the scope of DZM No. 5321/2018 BIDSF D4.4B "Dismantling of Systems in V1 NPP Controlled Area, Part 1" implementation for the V1 Reactor Building,
- Based on the Decision No. 361/2018, the NRA SR issued the approval to implement a change affecting nuclear safety during the RW PTT nuclear facility operation within the scope of commissioning of "Fixed RAW Preliminary Conditioning Line in the Solid Waste Storage Building" and "Loose RAW Dosing Node",
- Based on the Decision No. 367/2018, the NRA SR issued the permission to use the Project "I00TMVD20001 – Completion of Construction of Spent Nuclear Fuel Storage Capacities, Engineering Infrastructure Displacements – Stage 1".

As for the number and seriousness of events occurring in nuclear facilities, the year 2018 has been the most successful year in the operation and decommissioning of JAVYS, a. s., nuclear facilities. Two operational events were registered out of which, within the meaning of the Atomic Act, no one was reportable to supervisory authorities. In compliance with the International Nuclear Event Scale (INES), all the events were classified as 'No Safety Significance' events (i. e., 'Below INES Scale').

RADIATION PROTECTION

All the activities important from the radiation protection point of view are subject to the dose load optimization within the meaning of legal regulations of the Slovak Republic in force and of the JAVYS, a. s., internal quality assurance system prior to their permission, during their implementation and after their completion.

The systematic monitoring of radiation characteristics of the working environment, both the operational and official monitoring of doses received and, at the same time, the compliance with radiation protection rules and the ALARA principle during the implementation of activities, were performed in the working environment of radiation controlled areas of the JAVYS, a. s., nuclear facilities in 2018 as well.

The maximum individual effective dose that did not exceed the determined annual limits (20 mSv) is one of the strictly monitored indicators of the radiation protection level for persons working in the JAVYS, a. s., radiation controlled areas.

Maximum Individual Effective Dose E (mSv) in the Year 2018

JAVYS, a. s.	CA-A	% of the limit	CA-V	% of the limit	CA-U	% of the limit	CA-R	% of the limit
JAVYS, a. s., staff members	7.370	36.9	0.653	3.3	2.423	12,1	0.109	0.5
Contractors	7.136	35.7	1.558	7.8	0.110	0,6	0.000	0.00

Explanatory notes:

CA-A the radiation controlled areas in premises of the A1 NPP, being decommissioned, and in premises including RAW processing and spent nuclear fuel storage technologies in Jaslovské Bohunice

CA-V the radiation controlled area of the V1 NPP in Jaslovské Bohunice, being decommissioned

CA-U the radiation controlled areas of NRWR, FP LRW and VLLW in Mochovce

CA-R the radiation controlled area of IRAW and CRAM in Mochovce

Inspection activities in the radiation protection area were performed by the Public Health Authority of the Slovak Republic (PHA SR). At the V1 NPP, the PHA SR inspections were aimed in particular at the implementation of the Stage 2 decommissioning projects (D2.A project “Decontamination of the Primary Circuit – Stage II”, D2.1 project “Decontamination of Spent Fuel Pools and Other Contaminated Tanks in the V1 NPP – Part I”, D2.1 project “Decontamination of Spent Fuel Pools and Other Contaminated Tanks in the V1 NPP – Part 1”, D4.4A project “Auxiliary Buildings System Removal – Stage I”, D4.2 project “Dismantling of Reactor Coolant System Large Components”, D4.1 project “Modification of the Plant and Installation of New Equipment”, D4.4B project “Dismantling of Systems in V1 NPP Controlled Area”, B6.6A project “Decommissioning Support Surveys”). Inspections performed in RW PTT, A1 NPP and ISFS nuclear facilities regarded, above all, to status checks in relation to applications being prepared and to the review of facts declared in the work programmes that were discussed by the ALARA Commission and submitted to PHA SR for approval. Inspections regarding the impact of the operation on radiation burden of the population are monitored by JAVYS, a. s.,

through the Laboratories of Radiation Supervision of Surroundings in Trnava and in Levice, belonging to Slovenské elektrárne, a. s. The laboratories monitor the surroundings by means of a network of monitoring stations connected to three circuits in the surroundings of nuclear facilities on the Jaslovské Bohunice site and by means of laboratory measurements of samples taken from the environment. Results of sample measurements and analyses of almost 1,500 samples of air, soil, water, vegetation and agricultural products for the year 2018 prove a minimum impact of operated and decommissioned nuclear facilities on the surroundings.

The impact of the operation on dose burden of the population is assessed by JAVYS, a. s., continuously on a quarterly basis using a special programme. The programme, approved by the state supervisory authority, PHA SR, applies internationally accepted models of dissipation of radioactive substances, takes into account local conditions and uses current statistical data. All gaseous and liquid discharges from JAVYS, a. s., nuclear facilities and the actual meteorological situation enter the programme. The maximum calculated values of the individual effective dose E for the year 2018 are on the level of 0.03 % for the populated area, and on the level of 0.03 % for the unpopulated area of the annual limit of exposure per a representative individual from the population. The calculated values of individual effective doses are on a level multiple times lower than the level of radiation burden of the population due to the natural background and medical diagnostic examinations.

EMERGENCY PLANNING

Within the meaning of requirements specified by the Atomic Act and legal regulations related to the emergency planning area, a separate JAVYS Emergency Response Organization is established in JAVYS, a. s., that is competent to settle extraordinary events in nuclear facilities and during radioactive material transports provided by JAVYS, a. s., licence holder. In the year 2018, staff emergency drills and exercises were held regularly in all the nuclear facilities and during radioactive material transports (in total, 37 emergency drills and exercises took place).

The state of JAVYS, a. s., emergency preparedness on the Jaslovské Bohunice site was verified by the site wide emergency drill VĚBA 2018 (WILLOW 2018) and by the interoperational emergency drill DROZD 2018 (BLACKBIRD 2018) organized in cooperation with SE-EBO and Jaslovské Bohunice municipality that were aimed at the settlement of extraordinary events in nuclear facilities. All JAVYS, a. s., staff members and all persons staying in the territory of the company nuclear facilities on the Jaslovské Bohunice site, including contractor staff members. During shift staff emergency drills and professional group exercises, the Emergency Response Organization proved its functionality.

The following sizes of threat areas are approved by the Nuclear Regulatory Authority of the Slovak Republic for JAVYS, a. s., nuclear facilities at present:

- the common threat area for the V1 NPP, A1 NPP, RW PTT and ISFS on the Bohunice site delimited by the barrier of the guarded area of JAVYS, a. s., nuclear facilities on the Bohunice site, approved by the Decision of 26 September 2014 of NRA SR No. 719/2014,

- the threat area for NRWR on the Mochovce site determined as a territory bounded by the nuclear facility boundary, delimited by the barrier of the guarded area, i.e. the fencing of NRWR on the Mochovce site, approved by the Decision of NRA SR No. 66/2017 of 20 February 2017,
- the threat area for FP LRW on the Mochovce site determined as a territory bounded by the site boundary of nuclear facilities belonging to the Slovenské elektrárne, a. s., Nuclear Power Plant Mochovce, plant, delimited by the barrier of the guarded area of this nuclear facility, approved by the Decision of NRA SR No. 5/2007 of 8 January 2007,
- the threat area size delimitation of the IRWS nuclear facility, based on the Decision of NRA SR No. 381/2017 that entered into force and became executable on 10 October 2017.

Analyses, based on which the threat areas were determined, have shown that the operation or decommissioning of JAVYS, a. s., nuclear facilities on the Jaslovské Bohunice and Mochovce sites show a negligible impact on the population and the environment in the surroundings of these facilities.

OCCUPATIONAL HEALTH AND SAFETY

The occupational health and safety in JAVYS, a. s., was provided in compliance with relevant provisions of Act of the National Council of the Slovak Republic (NC SR) No. 311/2001, Coll., Labour Code, as amended, and with Act of NC SR No. 124/2006, Coll., on Occupational Health and Safety and on Amendments to Certain Acts and Further Related Regulations. Inspections

of meeting requirements resulting from the above mentioned acts and legal regulations were performed by safety-technical service technicians.

In the year 2018, no JAVYS, a. s., staff member registered accident was recorded.

Workplaces involving a risk factor – noise, vibrations, aerosols and radioactive radiation – are identified in JAVYS, a. s., based on decisions by the Regional Office of the Public Health Authority. 563 staff members worked at the above mentioned workplaces, out of which 73 were women. Staff members at workplaces where working activities are performed including the increased danger to health resulting from the working conditions are paid increased attention. The staff members are invited regularly to medical examinations aimed at particular risk factors. The prevention of accidents and occupational diseases on at-risk workplaces is ensured by means of allocating appropriate personal protective equipment within the meaning of operational orders and risk judgements.

During the year 2018, the Regional Public Health Authority in Levice performed an inspection in JAVYS, a. s., in relation to the issuance of a decision to commission the premises and to inspect the at-risk workplaces.

In the year 2018, JAVYS, a. s., defended an internationally accepted certificate in compliance with OHSAS 18001 standard granted by DNV GL company. Based on this defence, it was confirmed that the JAVYS, a. s., management process in the occupational health and safety area meets high criteria and requirements specified by the mentioned standard.

FIRE PROTECTION

No fire was recorded in JAVYS, a. s., in 2018.

Tasks in the fire protection area are provided by professionally competent persons – fire protection technicians – in JAVYS, a. s. In the year 2018, 470 preventive fire protection inspections were performed. The inspections were aimed at the adherence to fire protection regulations within all the company premises and at work performed on the basis of written orders – “Performance of Work Including Increased Fire Risk”.

During the preventive fire protection inspections, increased attention was paid to premises where decommissioning or demolition works were performed.

WATER MANAGEMENT SYSTEM

JAVYS, a. s., is maintaining the certified environmental management system in compliance with standard ISO 14001:2015 “Environmental Management Systems“. In 2018, JAVYS, a. s., performed all its activities with respect to the environmental protection. The functionality and implementation of this system were verified by the independent certification company Det Norske Veritas from 10 to 13 December 2018 and, during the overall IMS recertification audit, the validity of the internationally recognized certificate was confirmed again to JAVYS, a. s.

The environmental protection is regularly inspected and verified by means of internal ISM audits as well during which the application of Environmental Management System requirements is verified. Based on the issued decisions related to the environmental protection area, JAVYS, a. s., fulfilled or is fulfilling all the imposed conditions. During the year 2018, all the limited parameters specified for JAVYS, a. s., in decisions issued by relevant supervisory and state authorities for individual areas (concentration and balance indicators of pollution in discharged waste water, pollutant emissions into the air, amounts of hazardous wastes) were adhered to.

In 2018, 54,142 m³ of drinking water were consumed (Jaslovské Bohunice, Trnava, Bratislava, Mochovcce sites). Compared to 2017, the total drinking water consumption was higher by 11,566 m³ which represents an increase in consumption by 27.2 %.

The consumption of cooling water was 289,049 m³ in 2018, decreasing by 9.08 % compared to the year 2017.

In 2018, 440,414 m³ of wastewater were discharged into the Váh river recipient, which is an increase by 2.5 % compared to the previous year. All wastewater supervision analyses performed in an accredited laboratory confirmed that the quality of the discharged water was below the limits specified by state and supervisory authorities.

In 2018, the cost of the water management system amounting to €135,974.46 only represents an increase by 1.0 % compared to the year 2017.

An operative inspection was performed by the Slovak Environmental Inspectorate in Nitra, the Water Protection Inspection Department, in JAVYS, a. s., on 17 May 2018. The inspection was aimed at the review of completeness and recency of the operating procedure „Plan of Emergency Measures against Surface Water and Ground Water Pollution in JAVYS, a. s., on the Jaslovské Bohunice Site“ and its conformity with the As-Found state in compliance with Act No. 364/2004, Coll., on Waters, as amended. No discrepancy between the emergency plan contents and reality was identified during the inspection.

AIR PROTECTION

In 2018, JAVYS, a. s., operated 8 air pollution sources in all categories – 1 large source, 5 medium sources and 2 small sources. The total emissions released from all the air pollution sources were as follows: particulate pollutants – 38.29 kg, SO₂ – 0.22 kg, NO_x – 43.84 kg, CO – 12.10 kg and C_{org} – 1.77 kg. In 2018, 42 t of greenhouse gases (CO₂) were released into the air due to the operation of the facilities combusting gaseous and liquid fuels. The amount of CO₂ emissions decreased by 7 t, compared with the year 2017.

In 2018, the air pollution sources were only operated in the emergency mode (no steady operation occurred). All the specified limits and conditions were complied with during the operation of the above mentioned air pollution sources during the year 2018.

An environmental inspection was performed in JAVYS, a. s., in the integrated pollution inspection permission (IPIP) area by the Slovak Environmental Inspectorate, the Environmental Inspectorate Bratislava, the permanent infrastructure Nitra, the Integrated Permission Granting and Inspection Department, on 13 September 2018. The inspection was aimed to verify the meeting of conditions imposed in the applicable decision No. 5818-33736/2007/Bal/370660107, as amended, in relation to the and Start-up and Reserve Boiler Room operation in areas of air protection, waste management system and water management system.

Based on the accomplished environmental inspection, the Inspectorate did not identify any deficiencies and confirmed, in compliance with Act on IPIP, §35(1), conformity between the state of the implementation of activities during the operation identified by the inspection and conditions imposed in the integrated permission.

WASTE MANAGEMENT SYSTEM

In 2018, wastes classified in categories “other”, “hazardous”, “municipal” and “biodegradable” were produced in JAVYS, a. s. Both the disposal and recovery of wastes produced during activities that are not covered by BIDSF projects, fall within the JAVYS, a. s., scope of competence. In case of contractors’ activities, both the disposal and recovery of such wastes are provided contractually with the relevant contractor.

The total amount of non-active wastes produced within BIDSF projects, as well as off them, in the year 2018 amounted to 956.35 t. Out of that amount, 108.19 t (11.30 %) were recovered and 848.16 t (88.72 %) were disposed.

The total amount of produced wastes was made up of the following categories:

- other waste in the amount of 97.136 t off BIDSF projects and 785.52 t within BIDSF projects,
- hazardous waste in the amount of 14.708 t off BIDSF projects and 8.60 t within BIDSF projects
- municipal and biodegradable wastes in the amount of 48.268 t.

Compared to the year 2017, the waste production is markedly lower (by 82.84 %), depending on activities implemented during the A1 NPP and V1 NPP decommissioning. In 2018, costs incurred to dispose and recover waste produced off BIDSF projects represented the amount of €35,877.48. Sales of metallic recoverable materials were provided by the Sales and Contractual Support Department brought the total revenue of €330,678.99.

In 2018, the waste management was performed in compliance with legal requirements of the Slovak Republic and internal company procedures.

ENVIRONMENTAL IMPACT ASSESSMENT

During the year 2018, permission proceedings were performed for activities assessed in compliance with the Act on Environmental Impact Assessment for which the compliance of the implementation of the activities with Act No. 24/2006, Coll., was proved by means of written evaluations of conditions imposed by the final position and conditions imposed by decisions issued during the examination proceedings.

Binding positions of the Ministry of Environment of the Slovak Republic were issued in relation to applications for the permission. The binding positions were used as background documents for the NRA SR decisions for the following activities:

- “Auxiliary Buildings System Removal – Stage I” (BIDSF D4.4A) – final building approval,
- BIDSF D4.2 “Dismantling of Reactor Coolant System Large Components” – building permits,
- BIDSF D4.1 “Modification of the Plant and Installation of New Equipment” – building permits and permission to remove the construction,
- “Engineering Infrastructure Displacements” within the implementation of the “Construction Completion of Spent Nuclear Fuel Storage Capacities on the Jaslovské Bohunice Site” project – final building approval.

Notifications of changes in proposed activities were prepared for the implementation of projects BIDSF D4.2 “Dismantling of Reactor Coolant System Large Components”, D4.7 “V1 NPP Decommissioning, Stage 2 – Modifications in the Final State of Civil Structure Demolitions within the Framework of D4.7 Project Implementation” and “Optimisation of RW PTT Nuclear Facility Incineration Capacities on the Jaslovské Bohunice Site”. By the end of the year 2018, examination proceedings in relation to BIDSF D4.2 and D4.7 projects were completed by means of decisions issued during the examination proceedings, involving conclusions that it was not necessary to continue reviews of changes in activities. The submission of intent for the proposed activity “Optimisation of Processing Capacities of JAVYS, a. s., Radioactive Waste Processing and Treatment Technologies on the Jaslovské Bohunice Site” to the Ministry of Environment of the Slovak Republic was the most significant decision, whereby, the mandatory assessment process was commenced that is also subject to international assessments and will continue in the year 2019. Post-project analyses are performed for operated activities which, along with evaluations of the compliance with conditions specified in final positions of the Ministry of Environment of the Slovak Republic, prove that all the assessed activities are performed by JAVYS, a. s., in compliance with the act on the environmental impact assessment and with decisions issued in compliance with the act.

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INTERNATIONAL ACTIVITIES

In 2018, JAVYS, joint stock company (JAVYS, a. s.), implemented obtained commercial projects and continued the successful extension of its commercial activities. The year 2018 can be considered as the second most successful year in the history of JAVYS, a. s., commercial activities, after the year 2015, from the point of view of the number of contracts signed and contracted performance. Three contracts were signed amounting to €7.55 million.

Activities resulting from six signed contracts were performed during the year 2018. JAVYS, a. s., was processing RAW originating from the Dukovany and Temelín NPPs by incineration and high-pressure compacting for the Czech company ČEZ, a. s. Moreover, preparatory activities for the processing of saturated sorbents and sludge from the Italian Caorso NPP continued. They were related to the delivery of a line providing the matrix preconditioning prior to their combustion, the construction of a new dosing node in the BRWTC combustion plant and RAW in-feed to perform active complex tests. The project is implemented in a consortium with the Italian company Ansaldo New Clear.

JAVYS, a. s., delivered final versions of the operational documentation within a consultancy project for the construction of a low-level and medium-level radioactive waste repository in Iraq. Last documentation deliveries are finalized by consortium

partners, German companies Nukem Technologies GmbH and DBE Technology GmbH. The JAVYS, a. s., Technical and Emergency Group provided support to DMS, s. r. o., company during the fresh nuclear fuel imports into the Slovak Republic for the operated nuclear power plants. Based on a contract, JAVYS, a. s., will provide support to the Russian company JSC Isotop during the transit of ionizing radiation sources across Slovakia.

The financial volume for the contracted JAVYS, a. s., performance within the implemented projects amounts to €38.42 million and the total value of the projects amounts to €54.87 million. Within the meaning of the approved strategy of preparations and implementation of JAVYS, a. s., commercial activities, a Memorandum of Understanding was signed with the Hungarian company Institute of Isotopes Co. Ltd., Finnish company Fortum Power and Heat Oy and the Slovak company Institute for International Safety and Crisis Management. The Memorandum of Understanding with the Chinese company CNNC is ready to be signed. Out of four tenders submitted, JAVYS, a. s., was twice successful and one invitation to tender had not been closed before the end of the year. The participation in the „WNE 2018 – World Nuclear Exhibition 2018” World Nuclear Power Engineering trade fair held from 26 to 28 June 2018 in Paris was beneficial as well. It was the first time that JAVYS, a. s., presented itself using its own stand.

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ECONOMIC RESULTS

REPORT ON BUSINESS ACTIVITIES AND BALANCE OF ASSETS

Jadrová a vyradovacia spoločnosť, a. s., is a joint stock company with the 100 % ownership of the state that exercises its shareholder rights by means of the Ministry of Economy of the Slovak Republic. The company mission is to perform activities within the meaning of the approved National Policy and National Programme of Spent Nuclear Fuel (SNF) and Radioactive Waste (RAW) Management, namely to decommission nuclear power plants A1 NPP and V1 NPP in a safe, reliable and cost-effective manner, to provide nuclear services in areas of spent nuclear fuel and radioactive waste management by means of optimum use of existing RW PTT processing capacities and to provide related servicing. JAVYS, a. s., provides third parties with additional services resulting from servicing and lease contracts concluded. Since July 2016, JAVYS, a. s., has been included in the public administration sector and its business activities are also affected by relevant legal regulations applicable to this area.

As to 31 December 2018, the company achieved the pre-tax economic result amounting to €6,706,663 and the economic result after tax amounting to €3,893,093. The operational economic result was reported on the level of €10,732,919.

In 2018, two consultancy contracts were concluded. The proposal to modify and modernize RAW treatment lines operated by the Bulgarian company SERAW at the Kozloduj NPP is under implementation in a consortium with the Spanish company Ingeniería y Dirección de Obras y Montaje and the Bulgarian company ATP Atomtoploproekt, Ltd. JAVYS, a. s., in a consortium with 6 further foreign companies (Sustainable Criminal Justice Solutions CIC Limited, Institute for international Safety and Crisis Management, Public Health England, The Polish Military Institute of Chemistry and Radiometry, VERTIC and Cranfield University), performs a consultancy contract with the European Commission in the chemical, biological and radioactive waste management areas for ten Eastern and Southern European countries. In December 2018, a five-year contract was concluded with the Italian company NUCLECO, S. p. A., to treat institutional RAW.

The new signed contracts bring not only a benefit of an increase in JAVYS, a. s., revenues, but also references into the future and opportunities for the professional development of staff participating in their performance. In addition to the interest of foreign companies in services offered by JAVYS, a. s., the demand for activities in the RAW management area was increasing. The extension of the service offer represents additional possibilities for the company to develop and establish itself in the market in the important nuclear industry segment.

In 2018, the core JAVYS, a. s., activities were covered by funding provided from the National Nuclear Fund (NNF), by funding provided from the BIDSF fund and from sales and returns achieved by commercial activities.

Within the meaning of the contract concluded with the NNF, the maximum and limiting amount of funds for individual requests was determined to be €69,927,526. The absorption of NNF operational funds for the performance in the year 2018 amounted to €56,152,731 (from the 2018 NNF budget: €54,150,360 and from the 2019 NNF budget: €2,002,371). Operational funds for the performance in the year 2018 amounting to €67,396.97 will be covered from the 2019 NNF budget, from among requests to provide funds for the year 2019.

The absorption of funds, within the meaning of the contract with NNF for the year 2018, amounted to €8,412,753. Funds absorbed from the 2018 budget amounted to €1,067,922 for the performance accomplished in the year 2017 and to €7,342,048 for the performance accomplished in the year 2018. Investment funds implemented up to the amount of €2,783 during the year 2018 will be paid from the 2019 NNF budget.

In 2018, the company received funds amounting, in total, to €59,159,575 within the absorption of BIDSF funds for projects related to the V1 NPP decommissioning, out of which €41,977,090 covering the operational part and €10,419,280 covering the investment part. Out of that, funds intended for the BIDSF D0 decommissioning programme implementation using human resources available at the V1 NPP amounted to €6,763,205, out of which €6,625,309 covering the operational part and €137,896 covering the investment part.

Company revenues and returns originating from commercial activities constitute revenues and returns from the commercial management of RAW and SNF, other revenues from servicing and lease contracts concluded and revenues from sales of recoverable surplus property originating from the A1 NPP and V1 NPP decommissioning. The company gave an account of total revenues and returns for the year 2018 originating from its own performance amounting to €24,835,478, out of which direct revenues for RAW transport, storage and processing and for SNF management for the V1 NPP, V2 NPP and EMO1,2 NPP amounted to €17,565,308 and services related to IRAW management provided to third parties amounted to €670,530. Reported returns originating from the processing of sludges from Bioclar V1 NPP sludge fields amounted to €1,101,557. The company achieved returns from the activation of material and long-term tangible assets amounting to €5,498,083, revenues from sales of recoverable surplus property originating from the A1 NPP and V1 NPP decommissioning amounting to €3,326,190 and revenues originating from lease and other contracts and other JAVYS, a. s., performance.

In 2018, the company intermediate consumption costs were reported amounting to €75,819,131. Actual personnel costs were reported amounting to €29,615,512 (out of which the amount of €26,288,027 constituted salary costs and the amount of €3,327,485 corresponded to the settlement of provisions for employee benefits from 2017 and to the completion of provisions for future employee benefits), the accounting depreciation of long-term tangible assets and value adjustments for the long-term tangible assets amounted to €18,159,562 (total depreciation of long-term tangible assets and long-term intangible assets amounted to €23,300,248 and value adjustments for assets amounted to €5,140,686).

As to 31 December 2018, the company kept records of assets amounting to €1,401,288,544. Out of that, long-term intangible assets amounted to €1,600,999 and company long-term tangible assets amounted to €161,296,468. The long-term financial asset was reported amounting to €107,018,195. This asset is related to the capital injection to JESS company that was founded in 2009 as a joint venture of JAVYS, a. s., and ČEZ Bohunice. As to 31 December 2018, the financial asset value was revalued due to a deduction from JESS company equity, by €1,038,397.

Provisions set up for the A1 NPP and V1 NPP decommissioning and disposal, provisions set up for the decommissioning and disposal of non-power engineering equipment and provisions set up for future employee benefits (retirement and leaving allowances, within the meaning of the Collective Bargaining Agreement) were the largest items in company liabilities. As to 31 December 2018, provisions amounting, in total, to €1,034,235,720 were reported. Provisions set up for the A1 NPP and V1 NPP decommissioning and disposal amounting to €889,610,796 represent a part of those provisions. That part of the provisions is covered by claims against the NNF and BIDSF. As to 31 December 2018, the company equity value achieved the amount of €224,087,770 which represents 15.99 % of the company total assets.

Economic results achieved are stated in the financial statements audited by an independent auditor, without any reservations.

Structure of Operational Revenues and Returns by Financial Envelope Sources

	thousands of €		
	2016	2017	2018
RAW and SNF management	27,616	19,299	17,428
NNF funds	52,720	55,110	56,218
BIDSF funds	12,799	19,170	48,603
Other revenues and returns	7,365	6,937	7,111
Total	100,500	100,516	129,360



Structure of Operational Revenues and Returns by Activities

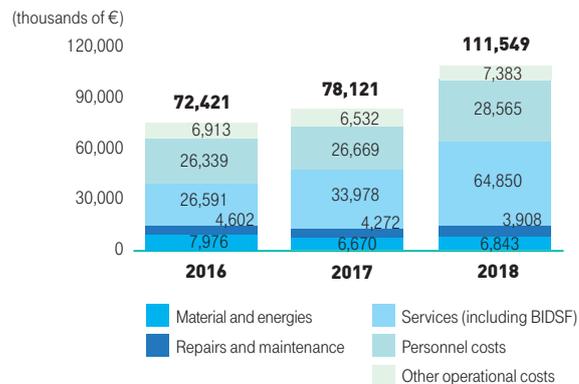
The NNF funds also include funds provided to reimburse costs of A1 NPP and V1 NPP decommissioning RAW management and V1 NPP SNF storage costs.

	thousands of €		
	2016	2017	2018
A1 NPP decommissioning funds (without RAW management)	23,407	25,122	27,767
V1 NPP decommissioning funds (without RAW and SNF management)	23,937	23,321	58,897
A1 NPP and V1 NPP decommissioning RAW and SNF management (cov. by NNF and BIDSF)	17,843	18,648	17,303
RAW and SNF management on the commercial basis	28,858	20,125	17,462
Other activities	6,455	13,300	7,931
Total	100,500	100,516	129,360



Structure of Operational Costs

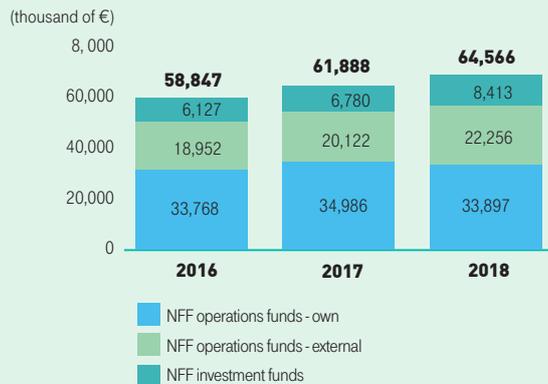
	thousands of €		
	2016	2017	2018
Material and energies	7,976	6,670	6,843
Repairs and maintenance	4,602	4,272	3,908
Services (including BIDSF)	26,591	33,978	64,850
Personnel costs	26,339	26,669	28,565
Other operational costs	6,913	6,532	7,383
Total	72,421	78,121	111,549



NNF Funds Absorption

thousands of €

	2016	2017	2018
NFF operations funds - own	33,768	34,986	33,897
NFF operations funds - external	18,952	20,122	22,256
NFF investment funds	6,127	6,780	8,413
Total	58,847	61,888	64,566



BIDSF Funds Absorption

thousands of €

	2016	2017	2018
Operational part funded by BIDSF	6,307	13,746	41,552
D0 project funded by BIDSF	6,481	6,493	6,763
Investment part funded by BIDSF	11,874	13,383	10,419
Total	24,662	33,622	58,734



PROCUREMENT

The 2018 yearly public procurement plan was the background document for the application of procurement requirements for the year 2018, containing 130 items of the total assumed value amounting to €14,450,763, excluding VAT.

In 2018, the total of 179 contracts were concluded, resulting from contract awarding procedures in compliance with the Public Procurement Act No. 343/2015, Coll., and on Amendments to Certain Acts, as amended, or in compliance with the JAVYS, a. s., internal guideline, the total volume amounting to €20,335,048.15, excluding VAT. Out of the mentioned number, a portion of the contracts represents items whose procurement was commenced in the year 2017 and completed in the year 2018.

From the commodity point of view, the greatest share in the mentioned volume was represented by services and goods (49.5 % each), the rest being represented by works. As for cost types, contracts representing operational costs (almost 98 %) dominated among contracts concluded in the year 2018, the rest falling on items of investment assets not included in investment projects (IMNIP/IANIP).

TRADE AND SERVICES

The active JAVYS, a. s., business was oriented, above all, to the following areas in the year 2018:

- **Provision of services in the radioactive waste and spent nuclear fuel management areas**

JAVYS, a. s., provides services necessary to ensure safe operations of nuclear power plants and are related, above all, to staff training for nuclear power engineering equipment, personal health physics and radiation protection, calibrations of instruments, services related to the joint use of equipment, services in the emergency planning and preparedness area, transport services, steam supply and leasing of non-residential premises and equipment to SE, a. s.

- **Provision of services and other activities necessary to ensure nuclear safety, radiation safety and operational reliability**

JAVYS, a. s., provides services necessary to ensure safe operations of nuclear power plants and are related, above all, to staff training for nuclear power engineering equipment, personal health physics and radiation protection, calibrations of instruments, services related to the joint use of equipment, services in the emergency planning and preparedness area, transport services, steam supply and leasing of non-residential premises and equipment to SE, a. s.

- **Provision of leases of residential and non-residential premises and related services**

The leasing of immovable property and non-residential premises is provided on the commercial basis, especially to present suppliers of works and services for JAVYS, a. s.,

but also to entities having no supply relationship to JAVYS, a. s. The leased immovable property is used, above all, as offices, changing rooms, storage rooms, assembly halls, manufacture plants, apartments, or parking grounds and areas.

● **Provision of other services and sales of surplus property** JAVYS, a. s., also provides other services within the framework of its business activities, namely, above all: institutional radio-active waste takeovers, transports, processing and storage, the joint use of the railway siding, the provision of training courses and consultancy, health physics services, demineralized water supply, water supply and drainage fees, heat, electric power, the provision of personal protective equipment, etc. Sales of surplus and non-utilisable property were also a source of revenue. In 2018, a contract was concluded between JAVYS, a. s., and Eko-Logistics company to take over the recoverable material originating from the A1 NPP and V1 NPP decommissioning. In addition, 7 separate sale cases of recoverable materials, surplus property and surplus stock were accomplished in the year 2018, bringing revenue amounting, in total, to €343,598 (excluding VAT).

After the termination of the accounting period for which this annual report is being made, there were no such events which could have significant impact on true and fair presentation of the facts stated in financial statement and this annual report.

The settlement of profits for 2018 will be decided by the General Assembly. At the General Assembly meeting, the management of the company submits the shareholders a draft of the profit distribution. Draft of the profit distribution for 2018 can be found in the notes of the financial statement on page 21.

The company has no establishment abroad.

FINANCIAL STATEMENTS

Annex No. 1 do Decree No. MF/23377/2014-74


FINANCIAL STATEMENTS
 of Enterprises in the Double-Entry Bookkeeping System

Prepared as at **3 1 . 1 2 . 2 0 1 8**

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 Data are filled in using block letters (as shown below) by a typewriter or a printer machine in black or dark blue.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	X	Y	Z	0	1	2	3	4	5	6	7	8	9
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Tax Registration Number 2 0 2 2 2 0 3 6 5 9 9 Identificatio 3 5 9 4 6 0 2 4 SK NACE 3 8 . 2 2 . 0	Financial Statements <input checked="" type="checkbox"/> Ordinary <input type="checkbox"/> Small <input type="checkbox"/> Extraordinary <input checked="" type="checkbox"/> Large <input type="checkbox"/> Interim (Mark with X)	Reporting Entity For the Period From 0 1 . 2 0 1 8 To 1 2 . 2 0 1 8 Immediately- Preceding Period From 0 1 . 2 0 1 7 To 1 2 . 2 0 1 7
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Accompanying Parts of Financial Statements

<input checked="" type="checkbox"/> Balance Sheet (Úč POD 1-01) (in whole Euros)	<input checked="" type="checkbox"/> Income Statement (Úč POD 2-01) (in whole Euros)	<input checked="" type="checkbox"/> Notes (Úč POD 3-01) (in whole Euros)
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Business Name (Name) of the Reporting Entity
 J a d r o v á a v y r a d o v a c i a s p o l o č n o s t', a. s

Seat of the Reporting Entity

Street: T o m á š i k o v a Number: 2 2
 Postal Code: 8 2 1 0 2 Municipality: B r a t i s l a v a
 Commercial Register and Number of Entry of the Company: B r a t i s l a v a I, o d d. S a, v l. č. : 4 6 4 9 / B

Phone Number: 0 3 3 / 5 3 1 3 2 8 4 Fax Number: 0 3 3 / 5 3 1 2 4 7 2
 E-mail Address:

Prepared on: 1 5 . 0 3 . 2 0 1 9	Approved on: 0 3 . 0 6 . 2 0 1 9	Signature of a Member of the Statutory Body of the Reporting Entity or a Natural Person Acting as a Reporting Entity.
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Records of the Tax Authority

Place for Registration Number Presentation Stamp of the Tax Authority

MF SR 8 1805/2014 This is an English language translation of the original Slovak language document. Page 1

Balance Sheet Úč POD 1 - 01		DÚC 2 0 2 2 0 3 6 5 9 9							ÚC 3 5 9 4 6 0 2 4							[Barcode]																
Description a	ASSETS b	Line c	Current Reporting Period														Immediately-Preceding Reporting Period															
			Gross - Part 1							Net 2							Net 3															
			Correction - Part 2																													
1.c.	Other trade receivables (311A, 312A, 313A, 314A, 315A, 31XA) - /391A/	57			1	1	7	0	2	3	4			1	1	6	4	4	4	6			6	7	3	3	9	3				
					5	7	8	8																								
2.	Net construction contract value (316A)	58																														
3.	Other receivables from group companies (351A) - /391A/	59																														
4.	Other receivables within a participating interest except for receivables from group companies (351A) - /391A/	60																														
5.	Receivables from partners, members and participants in an association (354A, 355A, 356A, 35XA, 368A) - /391A/	61																														
6.	Social security insurance (336A) - /391A/	62																														
7.	Tax assets and subsidies (341, 342, 343, 345, 346, 347) - /391A/	63			1	0	0	9	0	9	5	2	4			1	0	0	9	0	9	5	2	4								
8.	Receivables from derivative transactions (373A, 376A)	64																														
9.	Other receivables (335A, 33XA, 371A, 374A, 375A, 376A) - /391A/	65			2	4	1	3	7						2	2	7	5	3													
B.IV.	Total current financial assets (l. 67 to l. 70)	66			2	1	0	4	2						2	1	0	4	2													
3.IV.1.	Current financial assets in group companies (251A, 253A, 256A, 257A, 25XA) - /291A, 291V/	67			2	1	0	4	2						2	1	0	4	2													
2.	Current financial assets excluding current financial assets in group companies (251A, 253A, 256A, 257A, 25XA) - /291A, 291V/	68																														
3.	Treasury stock and treasury shares (252)	69																														
4.	Current financial assets in acquisition (259, 314A) - /291A/	70																														

Balance Sheet Úč POD 1 - 01		DÚC 2 0 2 2 0 3 6 5 9 9							ÚC 3 5 9 4 6 0 2 4							[Barcode]																			
Description a	ASSETS b	Line c	Current Reporting Period														Immediately-Preceding Reporting Period																		
			Gross - Part 1							Net 3							Net 3																		
			Correction - Part 2																																
B.V.	Financial accounts I. 72 + L 73	71			2	1	8	8	6	6	8	4	3			2	1	8	8	6	6	8	4	3			2	1	5	1	8	7	6	2	5
B.V.1.	Cash on hand (211, 213, 210)	72						2	3	2	6	4																							
2.	Bank accounts (221A, 22X, +/ 261)	73			2	1	8	8	4	3	5	7	9			2	1	8	8	4	3	5	7	9											
C.	Total accruals and deferrals (l. 75 to l. 79)	74			3	8	9	5	0	0	1			3	8	9	5	0	0	1															
C.1.	Non-current deferred expenses (381A, 382A)	75			1	3	5	3	0	4			1	3	5	3	0	4																	
2.	Current deferred expenses (381A, 382A)	76			1	5	1	0	1	5			1	5	1	0	1	5																	
3.	Non-current accrued income (385A)	77																																	
4.	Current accrued income (385A)	78			3	6	0	8	6	8	2			3	6	0	8	6	8	2															

Balance Sheet (Úč POD 1-01)		DČ 2 0 2 2 0 3 6 5 9 9							ČO 3 5 9 4 6 0 2 4							Barcode								
Description a	EQUITY AND LIABILITIES		Current Reporting Period							Immediately-Preceding Reporting Period														
	b	c	4							5														
A.V.	Other funds from profit I. 91 + I. 92	90	3	5	3	9	5	6	8	6	3	4	7	3	7	3	5	7						
A.V.1	Statutory funds (427, 42X)	91																						
2	Other funds (427, 42X)	92	3	5	3	9	5	6	8	6	3	4	7	3	7	3	5	7						
A.V.I.	Total revaluation reserves (I. 94 to I. 96)	93	1	0	7	3	3	2	1	9	1	0	1	7	7	1	6	1	5					
A.V.1	Asset and liability revaluation reserve (+/- 414)	94	-	1	4	3	5	8	0	8	1	-	1	3	3	1	9	6	8	5				
2	Financial investments revaluation reserve (+/- 151)	95	1	1	5	0	9	1	3	0	0	1	1	5	0	9	1	3	0	0				
3	Revaluation reserve from fusions, mergers and separations (+/- 416)	96																						
A.V.II.	Profit/loss from previous years I. 98 + I. 99	97				3	9	1	9	6	1	4	8				3	9	1	9	6	1	4	8
A.V.1	Retained earnings from previous years (426)	98				3	9	1	9	6	1	4	8				3	9	1	9	6	1	4	8
2	Accumulated losses from previous years (-/429)	99																						
A.V.III.	Profit/loss for the current reporting period after taxation (+/- I. 91 + I. 91 + I. 95 + I. 96 + I. 97 + I. 98 + I. 99 + I. 97 + I. 97 + I. 101 + I. 101)	100				3	8	9	3	0	9	3				7	7	0	1	1	6	8		
B.	Liabilities I. 102 + I. 118 + I. 121 + I. 122 + I. 136 + I. 139 + I. 140	101	1	0	6	0	0	1	9	7	3	1	1	1	2	4	1	6	9	7	2	0		
B.I.	Total non-current liabilities (I. 103 + I. 107 to I. 117)	102				7	5	5	0	8	0	1				9	1	0	7	2	2	6		
B.I.1.	Total long-term trade payables (I. 104 to I. 106)	103																						
1.a.	Trade payables to group companies (321A, 475A, 476A)	104																						
1.b.	Trade payables within a participating interest except for payables to group companies (321A, 475A, 476A)	105																						
1.c.	Other trade payables (321A, 475A, 476A)	106																						
2	Net construction contract value (316A)	107				7	0	0	0	0	0	0				8	6	0	1	2	3	1		
3	Other payables to group companies (471A, 47XAX)	108																						
4	Other payables within a participating interest except for payables to group companies (471A, 47XAX)	109																						
5	Other long-term payables (479A, 47XAX)	110																						
6	Long-term advance payments received (475A)	111																						
7	Long-term bills of exchange to be paid (478A)	112																						
8	Bonds issued (473A/-/255A)	113																						
9	Social fund payables (472)	114				5	5	0	8	0	1				5	0	5	9	9	5				
10	Other non-current payables (336A, 372A, 474A, 47XAX)	115																						
11	Long-term payables from derivative transactions (373A, 377A)	116																						
12	Deferred tax liability (481A)	117																						

Balance Sheet (Úč POD 1-01)		DČ 2 0 2 2 0 3 6 5 9 9							ČO 3 5 9 4 6 0 2 4							Barcode										
Description a	EQUITY AND LIABILITIES		Current Reporting Period							Immediately-Preceding Reporting Period																
	b	c	4							5																
B.II.	Long-term provisions for liabilities I. 119 + I. 120	118				9	3	0	2	2	4	7	2	4				9	7	9	8	6	7	1	7	9
B.I.1.	Legal provisions for liabilities (451A)	119																								
2	Other provisions for liabilities (459A, 45XAX)	120				9	3	0	2	2	4	7	2	4				9	7	9	8	6	7	1	7	9
B.III.	Long-term bank loans (461A, 46XAX)	121																								
B.IV.	Total current liabilities (I. 123 + I. 127 to I. 135)	122				1	8	2	3	0	0	0	9				1	9	1	9	2	2	9	8		
B.IV.1	Total trade payables (I. 124 to I. 126)	123				1	3	7	6	4	7	1	8				1	5	6	3	9	4	2	9		
1.a.	Trade payables to group companies (321A, 322A, 324A, 325A, 326A, 322AX, 475A, 476A, 476AX, 479A, 479AX)	124				5	0	6	4	5	5				6	2	3	9	2	5						
1.b.	Trade payables within a participating interest except for payables to group companies (321A, 322A, 324A, 325A, 326A, 322AX, 475A, 476A, 476AX, 479A, 479AX)	125																								
1.c.	Other trade payables (321A, 322A, 324A, 325A, 326A, 322AX, 475A, 476A, 476AX, 479A)	126				1	3	2	5	8	2	6	3				1	5	0	1	5	5	0	4		
2	Net construction contract value (316A)	127				4	9	9	6	7	4															
3	Other payables to group companies (361A, 36XAX, 471A, 47XAX)	128																								
4	Other payables within a participating interest except for payables to group companies (361A, 36XAX, 471A, 47XAX)	129																								
5	Payables to partners and participants in an association (364, 365, 366, 367, 368, 368A, 476A, 476AX)	130																								
6	Payables to employees (331, 333, 33X, 479A)	131				1	3	5	6	4	8	1				1	2	3	7	1	7	3				
7	Social security insurance payables (336A)	132				9	1	8	2	4	5				8	4	6	3	1	5						
8	Tax liabilities and subsidies (341, 342, 343, 345, 346, 347, 34X)	133				2	8	5	0	9	9				2	5	5	3	1	1						
9	Payables from derivative transactions (373A, 377A)	134																								
10	Other payables (372A, 379A, 474A, 475A, 479A, 47XAX)	135				1	4	0	5	7	9	2				1	2	1	4	0	7	0				
B.V.	Short-term provisions for liabilities I. 137 + I. 138	136				1	0	4	0	1	0	9	6				1	1	6	0	0	1	4	1	4	
B.V.1.	Legal provisions for liabilities (323A, 451A)	137				1	0	7	1	4	1	1				2	6	9	5	6	1					
2	Other provisions for liabilities (323A, 32X, 459A, 45XAX)	138				1	0	2	9	3	9	5	8	5				1	1	3	3	3	1	8	5	3
B.V.II.	Current bank loans (221A, 231, 232, 23X, 461A, 46XAX)	139										3	2	0	1							1	6	0	3	
B.V.III.	Short-term financial assistance (241, 249, 24X, 473A, -/255A)	140																								
C.	Total accruals and deferrals (I. 142 to I. 145)	141				1	1	7	1	8	1	0	4	3				1	1	2	3	2	4	7	5	0
C.1.	Non-current accrued expenses (383A)	142																								
2	Current accrued expenses (383A)	143										9	4	2								5	6	1		
3	Non-current deferred income (384A)	144				9	9	7	4	1	4	0	6				9	9	7	4	7	2	6			
4	Current deferred income (384A)	145				1	7	4	3	8	6	9	5				1	2	3	4	9	4	6	3		



Description a	Item b	Line c	Actual	
			Current Reporting Period	Immediately-Preceding Reporting Period
			1	2
-	Net turnover (a portion of Accounting Class 6 under the Act)	01	2 2 3 1 9 9 8 7	2 4 0 5 4 3 1 5
**	Total operating revenues (I. 03 to I. 09)	02	1 4 1 4 4 1 7 7 5	1 4 1 0 9 4 9 2 2
I.	Revenues from the sale of merchandise (604, 607)	03		
II.	Revenues from the sale of own products (601)	04	3 7 2 5 9	3 6 3 3 3
III.	Revenues from the sale of services (602, 606)	05	2 2 2 8 2 7 2 8	2 4 0 1 7 9 8 2
IV.	Changes in inventories (+/- Accounting Group 61)	06		
V.	Own work capitalised (Accounting Group 62)	07	2 1 7 1 8 9 3	1 9 3 1 9 8 6
VI.	Revenues from the sale of non-current intangible assets, non-current tangible assets and raw materials (641, 642)	08	3 4 3 5 9 8	6 6 7 1 4 2
VII.	Other operating revenues (644, 645, 646, 648, 655, 657)	09	1 1 6 6 0 6 2 9 7	1 1 4 4 4 1 4 7 9
**	Total operating expenses (I. 11 + I. 12 + I. 13 + I. 14 + I. 15 + I. 20 + I. 21 + I. 26 + I. 25 + I. 29)	10	1 3 0 7 0 8 8 5 6	1 2 9 5 4 4 3 8 7
A.	Costs of the acquisition of merchandise sold (504, 507)	11		
B.	Consumed raw materials, energy and other non-inventory supplies (501, 502, 503)	12	6 8 4 3 2 2 9	6 6 7 0 5 2 2
C.	Provisions for inventories (+/-) (505)	13		
D.	Services (Accounting Group 51)	14	6 8 9 7 5 9 0 1	3 8 3 5 8 3 8 3
E.	Total personnel expenses (I. 16 to I. 19)	15	2 9 6 1 5 5 1 2	2 6 5 7 8 6 6 5
E.1.	Wages and salaries (521, 522)	16	1 8 5 3 6 6 4 9	1 7 5 0 9 9 0 9
Z.	Remuneration of members of company bodies and co-operative (523)	17	2 9 4 3 0 9	3 0 8 8 3 4
3.	Social insurance expenses (524, 525, 526)	18	8 0 5 7 8 5 1	7 3 7 6 1 3 9
4.	Social expenses (527, 528)	19	2 7 2 6 7 0 3	1 3 8 3 7 8 3
F.	Taxes and fees (Accounting Group 53)	20	2 6 1 9 2 5 4	2 5 3 2 3 5 6
G.	Amortisation and depreciation, and provisions for non-current intangible and non-current tangible assets (I. 22 + I. 23)	21	1 8 1 5 9 5 6 2	1 8 0 8 6 6 5 9
G.1.	Amortisation and depreciation of non-current intangible and non-current tangible assets (551)	22	2 3 3 0 0 2 4 8	2 2 5 5 9 4 7 3
Z.	Provisions for non-current intangible and non-current tangible assets (+/-) (553)	23	- 5 1 4 0 6 8 6	- 4 4 7 2 8 1 4
H.	Net book value of non-current assets and raw materials sold (541, 542)	24		
I.	Provisions for receivables (+/-) (547)	25		- 5 0
J.	Other operating expenses (543, 544, 545, 546, 548, 549, 555, 557)	26	4 4 9 5 3 9 8	3 7 3 1 7 8 5 2
**	Operating profit or loss (+/-) (I. 02 - I. 10)	27	1 0 7 3 2 9 1 9	1 1 5 5 0 5 3 5



Description a	Item b	Line c	Actual	
			Current Reporting Period	Immediately-Preceding Reporting Period
			1	2
-	Added value (I. 03 + I. 04 + I. 05 + I. 06 + I. 07) - (I. 11 + I. 12 + I. 13 + I. 14)	28	- 5 1 3 2 7 2 5 0	- 1 9 0 4 2 6 0 4
**	Total revenues from financing activities (I. 30 + I. 31 + I. 35 + I. 39 + I. 42 + I. 43 + I. 44)	29	4 3 0 8 1 6 3 5	2 8 9 4 9 8
VIII.	Revenues from the sale of securities and ownership interests (661)	30		
IX.	Total revenues from non-current financial assets (I. 32 to I. 34)	31		
IX.1.	Revenues from securities and ownership interests from group companies (665A)	32		
Z.	Revenues from securities and ownership interests within a participating interest except for revenues from group companies (666)	33		
I.	Other revenues from securities and ownership interests (665A)	34		
X.	Total revenues from current financial assets (I. 36 to I. 38)	35		
X.1.	Revenues from current financial assets from group companies (666A)	36		
Z.	Revenues from current financial assets within a participating interest except for revenues from group companies (666A)	37		
I.	Other revenues from current financial assets (666A)	38		
XI.	Interest income (I. 40 + I. 41)	39	2 3 3 4 2 5	2 8 9 4 7 4
XI.1.	Interest income from group companies (662A)	40		
Z.	Other interest income (662A)	41	2 3 3 4 2 5	2 8 9 4 7 4
XII.	Foreign exchange gains (663)	42	- 1 6	2 4
XIII.	Gains on revaluation of securities and revenues from derivative transactions (664, 667)	43		
XIV.	Other revenues from financing activities (668)	44	4 2 8 4 8 2 2 6	
**	Total costs of financing activities (I. 46 + I. 47 + I. 48 + I. 49 + I. 52 + I. 53 + I. 54)	45	4 7 1 0 7 8 9 1	1 7 6 3
K.	Securities and ownership interests sold (661)	46		
L.	Expenses related to current financial assets (560)	47		
M.	Provisions for financial assets (+/-) (565)	48		
N.	Interest expense (I. 50 + I. 51)	49		
N.1.	Interest expense for group companies (562A)	50		
Z.	Other interest expense (562A)	51		
O.	Foreign exchange losses (563)	52	1 6 7	1 6 9
P.	Expenses for revaluation of securities and expenses related to derivative transactions (564, 567)	53		
Q.	Other costs of financing activities (568, 569)	54	4 7 1 0 7 7 2 4	1 5 9 4

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Income Statement
ÚčP002-01

DIČ 2 0 2 2 0 3 6 5 9 9 IČO 3 5 9 4 6 0 2 4

Description a	Item b	Line c	Actual																		
			Current Reporting Period 1						Immediately-Preceding Reporting Period 2												
			---	Profit/loss from financing activities (+/-) (I.29 - I.45)	55	-	4	0	2	6	2	5	6			2	8	7	7	3	5
----	Profit/loss for the reporting period before taxation (+/-) (I.27 + I.55)	56			6	7	0	6	6	6	3			1	1	8	3	8	2	7	0
R	Income tax (I.58 + I.59)	57			2	8	1	3	5	7	0			4	1	3	7	1	0	2	
R.1	Current income tax (591, 595)	58			2	9	2	7	4	0	3			3	5	8	3	6	3	3	
2	Deferred income tax (+/-) (592)	59			-	1	1	3	8	3	3			5	5	3	4	6	9		
S	Profit/loss of partnership transferred to partners (+/-) (596)	60																			
----	Profit/loss for the reporting period after taxation (+/-) (I.65 - I.67 - I.68)	61			3	8	9	3	0	9	3			7	7	0	1	1	6	8	



Independent Auditor's Report

To the Shareholder, Supervisory Board and Board of Directors of Jadrová a vyradovacia spoločnosť, a.s.:

Report on the Audit of the Financial Statements

Opinion

We have audited the financial statements of Jadrová a vyradovacia spoločnosť, a.s. ("the Company"), which comprise the balance sheet as at 31 December 2018, the income statement for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying financial statements of the Company give a true and fair view of the financial position of the Company as at 31 December 2018, and of its financial performance for the year then ended in accordance with the Act on Accounting No 431/2002 Coll., as amended by later legislation ("the Act on Accounting").

Basis for Opinion

We conducted our audit in accordance with International Standards on Auditing ("ISAs"). Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the Company in accordance with the Act on Statutory Audit No 423/2015 Coll. and on amendments to the Act on Accounting No 431/2002 Coll., as amended by later legislation ("the Act on Statutory Audit") related to ethics, including Auditor's Code of Ethics, that are relevant to our audit of the financial statements, and we have fulfilled other requirements of these provisions related to ethics. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Emphasis of Matters

We draw attention to the notes III.4, IV.2 and VIII.2 to the financial statements. The Company values its obligations and recognizes related receivables in the same amount in relation to decommissioning of nuclear energetic and non-energetic facilities and nuclear waste storage and management based on the updated strategy on the final stage of nuclear energy approved by the

INDEPENDENT AUDITOR'S REPORT

Slovak government in 2014. Estimates and assumptions used by the management in its calculation of the provision are inherently sensitive to expectations of development of future costs and forecasted cash flows, inflation, discount rates, technical plans and changes in the government legislation. Any changes in these parameters could significantly influence the amount of provisions recognized in the company's financial statements in the future periods.

We draw attention to the notes I.1.2 and III.2 to the financial statements. Together with ČEZ Bohunice a.s., the subsidiary of ČEZ, a.s., the Company established a joint venture of Jadrová energetická spoločnosť Slovenska, a.s. Its purpose is a nuclear power plant construction. Future development and recoverability of the investment in the joint venture depends on successful completion of the construction project and subsequent operations of the new nuclear power source in the area of power plant in Jaslovské Bohunice. Decision on a construction will be made in the future.

Our opinion is not modified in respect to these matters.

Other Matter

The financial statements of the Company for the year ended 31 December 2017 were audited by another auditor whose report dated 20 March 2018 expressed an unmodified opinion on those statements with emphasis of matters paragraph drawing attention to the significant estimates in the area of decommissioning provisions and grants receivables and in the area of recoverability of investment in the joint venture.

Responsibilities of Management and Those Charged with Governance for the Financial Statements

Management is responsible for the preparation of the financial statements that give true and fair view in accordance with the Act on Accounting, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Company or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Company's financial reporting process.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with ISAs, we exercise professional judgment and maintain professional scepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements including the presented information as well as whether the financial statements captures the underlying transactions and events in a manner that leads to their fair presentation.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

Report on Other Legal and Regulatory Requirements

Report on Information Disclosed in the Annual Report

Management is responsible for the information disclosed in the annual report, prepared based on requirements of the Act on Accounting. Our opinion on the financial statements expressed above does not apply to other information contained in the annual report.

In connection with audit of the financial statements it is our responsibility to understand the information disclosed in the annual report and to consider whether such information is not materially inconsistent with audited financial statements or our knowledge obtained in the audit of the financial statements, or otherwise appears to be materially misstated.

The annual report was not available to us as at the date of issue of the auditor's report on the audit of the financial statements.

When we obtain the annual report, we will consider whether the Company's annual report contains information, disclosure of which is required by the Act on Accounting and based on procedures performed during the audit of financial statements, we will express our opinion considering whether:

- Information disclosed in the annual report, prepared for 2018, is consistent with the financial statements for the relevant year.
- The annual report contains information based on the Act on Accounting.

Additionally, we will disclose whether material misstatements were identified in the annual report based on our understanding of the Company and its situation, obtained in the audit of the financial statements.

15 March 2019
Bratislava, Slovak Republic

Ernst & Young Slovakia, spol. s r.o.
SKAU Licence No. 257

Ing. Tomáš Přeček, statutory auditor
UDVA Licence No. 1067

ABBREVIATIONS

ALARA	As Low As Reasonable Achievable – principle of persons' radiation exposure optimization
BIDSF	Bohunice International Decommissioning Support Fund
BRWTC	Bohunice Radioactive Waste Treatment Centre
CRAM	Captured radioactive materials
FCC	Fibre concrete container
FP LRW	Final Processing of Liquid Radioactive Waste
IRAW	Institutional radioactive waste
ISFS	Interim Spent Fuel Storage
JAVYS, a. s.	Jadrová a vyradovacia spoločnosť, a joint stock company
LRAW	Liquid radioactive waste
MEc SR	Ministry of Economy of the Slovak Republic
MEn SR	Ministry of Environment of the Slovak Republic
NF	Nuclear facility
NNF SR	National Nuclear Fund of the Slovak Republic
NPP	Nuclear power plant
NRA SR	Nuclear Regulatory Authority of the Slovak Republic
NRWR	National Radioactive Waste Repository
PHA SR	Public Health Authority of the Slovak Republic
RAW	Radioactive waste
RW PTT	Radioactive Waste Processing and Treatment Technologies
SE, a. s.	Slovenské elektrárne, a joint stock company
SE-EBO	Slovenské elektrárne, a joint stock company, Bohunice Nuclear Power Plant (V2 NPP)
SE-EMO	Slovenské elektrárne, a joint stock company, Mochovce Nuclear Power Plant (EMO1,2)
SNF	Spent nuclear fuel
SRAW	Solid radioactive waste
VLLW	Very low-level waste



ANNUAL REPORT 2018

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