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News digest

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Content

PICTURE OF THE WEEK

ZNPP. The russian occupiers created an emergency situation at the Zaporizhia NPP. Presumably, due to the negligence and unprofessional actions of the russians at the facility, the cleaning system of the purge water of the steam generators of power unit No. 6 recently completely failed, and, trying to correct the situation, the occupiers allowed the radioactive coolant to enter the external environment.

Despite the fact that representatives of rosatom at the ZNPP continue to grossly violate the radiation and nuclear safety of the plant and do not comply with the technological regulations and emergency instructions, the IAEA inspectors who are at the facility do not react to this in any way, actually covering for the occupiers, who of all forces are approaching a nuclear catastrophe. This was stated by energy market expert Viktor Kurtev, involved in the anti-crisis plan for the Zaporizhzhia NPP.

"According to the information available to me, the cleaning system of the purge water of the steam generators of power unit No. 6 - the Special Water Treatment-5 installation (special water treatment) recently completely failed. The probable cause is the carelessness and unprofessional actions of the russian "shift manager" of the chemical plant, who missed the moment of saturation of the Special Water Treatment filters -5/2. This led to the entry of radioactive borated water into the engine room of power unit No. 6", Kurtev said.

According to him, when the liquid entered the condensate-feeding tract, the boric acid solution present in it entered into a chemical interaction with the metal of the pipelines and the equipment of the second circuit, which is made of unalloyed steel of the St20 brand".

"In order to correct the situation, they are now trying to wash the heat carrier of the second circuit by water exchange. That is, the radioactive borated water is diluted with chemically purified water. The mixture is poured into the waste circulation water line and the cooling pond. This violates all sanitary standards and rules established for the operation of nuclear power plants, because the radioactive heat carrier enters into the external environment", Kurtev outlined the situation.

At the same time, at moscow's "requirement", russian "specialists" who control the occupied Ukrainian nuclear power plant refuse to put power unit No. 6 into a cold shutdown state, and power unit No. 4 into a hot state. Therefore, the expert states, it seems that russia is not going to give up blackmailing Ukraine and the world with a nuclear disaster.

"russia's reaction in the form of inaction gives reason to talk about the creation of a basis for blackmailing Ukraine and the world with a future nuclear disaster. Therefore, this confirms the opinion that the rosatom has decided to use power unit No. 6, where there is a flow from the first circuit to the second, to implement a chain scenario of violation of all safety barriers. This involves supercooling and damage to the reactor, as well as guillotine destruction of steam generator tubes, which will cause the maximum domino effect", predicts Kurtev.

At the same time, the expert is convinced, the russians will try to achieve the maximum informational effect in order to restrain the actions of the Ukrainian army in the southern direction, appealing to the IAEA regarding the "threat of a nuclear catastrophe". Similar arguments will be used to explain the presence of russian "experts" and their curators - as if to eliminate a possible disaster.

At the same time, he pointed to the complete inactivity of those IAEA inspectors who are at the ZNPP. "It is surprising the lack of reaction to such actions of the IAEA inspectors, who seem to be "fascinated" by the russians and do not see and do not understand the scale of the violations. Instead, they fish in the cooling pond (into which, in fact, radioactive water is poured) in the company of Yuriy Chernichuk, a collaborator who the occupation authorities appointed him as the "general director of the Zaporizhzhia NPP". That is, IAEA inspectors are literally used as an informational "smoke screen" to hide violations and create an "alibi" for the russians, Kurtev said.

"I hope that this information will contribute to increasing the pressure of the international community on russia in order to prevent the worst-case scenario. Otherwise, not only russians will sit on the dock in The Hague", Kurtev noted.

Other news.

This week, Energoatom reported on the memorandum concluded with Westinghouse on the deployment of AR-300 reactors in Ukraine. The specifics fit into one sentence: "The agreement on the construction of the SMR provides for the creation of a joint working group for cooperation in concluding contracts, licensing and establishing a local supply chain". It is interesting that AP300 is probably the least advanced small modular reactor in the licensing process.

Also, the operating company of Ukrainian NPPs held a meeting "at one of the Ukrainian NPPs", where the repair campaign of the million-dollar power unit was completed. They promised to connect two more blocks soon.

At the same time, experts have been warning for several weeks about the lack of coal reserves at the Thermal Power Plant and the Thermal Power Plant. This is important, because without maneuvering power, the energy system will not cope with the Autumn-Winter Period. The coal was used in the summer while the repair campaign at the NPP was ongoing.

A similar situation was at the start of the Autumn-Winter Period of 2020. The lack of coal was then "noticed" only at the end of October. And in November, DTEK bought coal from South Africa. The Ministry of Energy has not yet commented on how the current deficit will be resolved.

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The situation at the ZNPP

Update 183 - IAEA Director General Statement on Situation in Ukraine

IAEA, 15.09.2023

Ukraine's Zaporizhzhya Nuclear Power Plant (ZNPP) has been drilling more wells at the site as part of efforts to find new sources of cooling water after the destruction of the downstream Kakhovka dam more than three months ago, Director General Rafael Mariano Grossi said today.

Since last week, the ZNPP has built another two groundwater wells to supply the sprinkler ponds that cool the six reactors and spent fuel, bringing the total of new wells to nine.

Together they pump around 200 cubic metres of water per hour into the sprinkler ponds, representing almost all the cooling needs of the six shutdown reactors. The remainder of the water comes from the drainage system and clean water that is periodically discharged from the plant's chemical water treatment facility. The IAEA has been informed that the water supply situation will be assessed after a tenth well has been constructed to see if more will be needed.

"Following the loss of the Kakhovka reservoir, actions have been taken to stabilise the site's water resources, which are currently sufficient for several months of its cooling requirements in the current conditions", Director General Grossi said.

"However, the challenges the site has been facing in this regard are further adding to the generally precarious nuclear safety and security situation at Europe's largest nuclear power plant, especially as our experts are reporting about further indications of increased military activities in the region", he said.

Underlining the potential dangers for nuclear safety and security during the conflict in Ukraine, the IAEA experts have continued to hear numerous explosions some distance away from the ZNPP, which is located by the frontline.

They were also informed by the ZNPP about further drone attacks, on 11 September, in the nearby city of Enerhodar where many staff live with their families, causing minor damage to two buildings. The ZNPP informed the IAEA experts that there were no casualties reported at that time.

"No action should be taken that could imperil nuclear safety and security at the Zaporizhzhya Nuclear Power Plant in any way. We remain determined to do everything we can to help prevent a nuclear accident during this tragic war. The risks continue to be all too real", Director General Grossi said.

At the ZNPP, the IAEA experts have continued to conduct walkdowns of specific areas at the site and meet with staff there.

They have not observed the presence of any new mines or explosives but confirmed the continued presence of mines in the buffer zone between the site's internal and external perimeter barriers. The IAEA continues to request access to the rooftops of reactor units 1, 2, 5 and 6, and to all six turbine halls, one after the other.

Over the past week, the experts visited the isolation gate at the large cooling pond and confirmed the integrity of the gate and observed the reinforcements that had been made on the side of the Kakhovka reservoir following the dam's collapse in early June.

The IAEA team also went to the main control room of unit 4, the reactor hall of unit 3, the turbine hall of unit 2 and a liquid waste treatment facility.

The six reactor units remain in shutdown, with units 1 to 5 in cold shutdown and unit 6 in hot shutdown to generate steam for various nuclear safety functions. For example, the steam from unit 6 is used in the liquid waste treatment facility that the IAEA experts visited this week.

During the visit and through discussions with ZNPP staff, the IAEA experts were informed that the inventory of liquid waste on site varies, due to the routine generation of waste together with the subsequent treatment of the waste. Currently, there is liquid waste to be treated, after which the site will also treat more such waste resulting from the regeneration of ion exchange resins, which are essential for maintaining the purity of the water, including that needed for the cooling of the spent fuel.

As previously stated, the IAEA experts have strongly been encouraging the ZNPP to investigate all possible options to install an external boiler to generate the steam required, which would enable the plant to bring all units into a cold shutdown state. Also as reported earlier, the Ukraine national regulator – SNRIU – has issued regulatory orders to limit the operation of all six units to a cold shutdown state.

At Ukraine's three other nuclear power plants and the Chornobyl site, the IAEA teams based at these facilities reported no new nuclear safety and security issues over the past week. A rotation of IAEA experts was successfully conducted at the Chornobyl site earlier this week.

Regulation

There was a meeting of acting Heads of the State Nuclear Regulatory Inspectorate with the Executive Director of the World Nuclear Safety Institute

SNRIU, 12.09.2023

On September 12, 2023, a meeting was held between the Acting Chairman of the State Nuclear Regulatory Inspectorate - Chief State Inspector for Nuclear and Radiation Safety of Ukraine Oleg Korikov with the Executive Director of the World Institute for Nuclear Safety (WINS) Lars van Dassen.

Lars van Dassen presented the first volume of the book "Voices of Ukraine" - the WINS project, which tells about the events of the end of February-March 2022 in the Chernobyl exclusion zone and at the Chernobyl nuclear power plant, which were under the occupation of the russian invaders. The book is a collection of real stories of people who devoted themselves to the nuclear industry and, despite the threat to their lives, the fear of war, remained to fulfill their professional duty, ensuring the stable and safe functioning of nuclear installations.

During the meeting, Oleg Korikov and Lars van Dassen discussed aspects of preparing the second volume of the book "Voices of Ukraine". According to the authors' plan, it will be dedicated to the situation at the Zaporizhia NPP, which has been occupied by russian invaders since March 4, 2022, and will contain the testimony of those Ukrainian specialists who remained loyal to their state and the cause of safe exploitation of peaceful nuclear power.

"I am convinced that recording on the pages of the book the real stories of Ukrainian specialists in the nuclear industry, their testimonies about the crimes of the russian federation in relation to Ukrainian peaceful nuclear installations, is a matter of great importance. The international community should know about everything that happened and is happening now in Ukraine, what challenges the Ukrainian nuclear industry and Ukrainian nuclear scientists have faced. And, of course, draw appropriate conclusions from these events", Oleg Korikov noted.

Acting Chairman of the State Nuclear Regulatory Inspectorate held a meeting with representatives of the IAEA at Rivne NPP

SNRIU, 14.09.2023

On September 13, 2023, during a working visit to the Rivne NPP, Acting Head of the State Nuclear Regulatory Inspectorate - Chief State Inspector for Nuclear and Radiation Safety of Ukraine, Oleg Korikov, held a meeting with IAEA representatives who are at the plant as part of the Agency's permanent monitoring mission and as part of a group of inspectors who worked at the RNPP as part of the Agreement between Ukraine and the IAEA in connection with the Treaty on the Non-Proliferation of Nuclear Weapons.

Oleg Korikov emphasized the importance of the work of both IAEA groups. He noted that the work of the Agency's inspectors within the framework of the Agreement testifies to Ukraine's openness and transparency in the field of nuclear energy use.

"I am sure that there are no obstacles and, based on the results of your work, you will be able to make sure that both Ukrainian legislation and international obligations regarding the handling of nuclear material and the operation of nuclear facilities are clearly observed in our state", said the leader of the State nuclear regulatory Inspectorate.

Oleg Korikov also thanked the IAEA experts who are today at the Rivne NPP as part of the Agency's permanent monitoring mission.

"The work you are doing is necessary both for Ukraine and for the international nuclear community. Today, it is important to record all the impacts that Ukrainian nuclear installations are experiencing as a result of the full-scale military invasion of the russian federation, hostilities, shelling by the russian occupiers of the energy infrastructure of Ukraine, and to record all those important aspects that are provided for by the agreements and conditions of the Agency's mission at Ukrainian NPPs", he said, adding that the advisory and technical assistance provided by the IAEA strengthens Ukraine's capabilities to ensure nuclear and radiation safety.

As a reminder, permanent monitoring missions of the IAEA have been operating since the beginning of 2023 at all operating Ukrainian nuclear power plants in response to Ukraine's official

invitation. At the temporarily occupied Zaporizhzhia NPP, the permanent mission of the Agency began its work in September 2022.

The SSTC NRS Intensifies Cooperation with the French institute IRSN

SSTC NRS, 12.09.2023

Yesterday, 11 September 2023, Ihor Shevchenko, Director of the State Scientific and Technical Center for Nuclear and Radiation Safety (SSTC NRS), and Jean-Christophe Niel, Director of the Institute for Radiation Protection and Nuclear Safety of France (IRSN), signed a Memorandum of Understanding and discussed technical areas to continue cooperation. The Memorandum outlines cooperation in the domains such as emergency preparedness and response, safety of nuclear installations, radiation protection of the public and the environment, radioactive waste and radiation sources management.

"The Memorandum signed between the IRSN and the SSTC NRS will strengthen the partnership between our institutions and formalize the cooperation that started a few months ago. I sincerely thank the French Government and the Institute for Radiation Protection and Nuclear Safety for their support. You were among the first to support us since the beginning of the full-scale invasion. Your support gave us confidence and strength to fight", Ihor Shevchenko noted.

During the meeting with the IRSN Director, Jean-Christophe Niel, the bilateral cooperation, in particular, the areas of the expert reviews in the field of nuclear and radiation safety, contamination and radioactive waste issues have been discussed. A visit to the IRSN technical crisis center provided an opportunity for an in-depth discussion of topics related to emergencies and assessment of their consequences. Additionally, both parties exchanged insights on Small Modular Reactor (SMR) safety.

“With all the confidence, I condemn the aggression of the russian federation against Ukraine and the Ukrainian people. I am impressed by the courage and resilience with which Ukrainians fight for their freedom and for the freedom of all of us, for peace in Europe. It is a great honor for me to welcome the representatives of the SSTC NRS to the walls of our Institute. I am convinced that the signed Memorandum will open a new Chapter of cooperation between our institutions, said Jean-Christophe Niel, Director of the French Institute for Radiation Protection and Nuclear Safety. - We are ready to expand our activities into a new field: mitigating the consequences of the russian invasion of the territory of Ukraine”.

The visit to France also includes meetings and discussions on research and development needs for small modular reactors, including the PASTIS project. Furthermore, the Ukrainian delegation will explore the application of the ASTEC code to assess severe accident consequences at Ukrainian reactors and familiarize themselves with the GALAXIE, THEMA, CHROMIA, and ODE facilities.

New construction

Energoatom and Westinghouse agreed on cooperation in deployment of AP300 small modular reactor in Ukraine

Energoatom, 12.09.2023

Energoatom, the state-owned nuclear utility of Ukraine, and U.S. Westinghouse Electric Company LLC signed a Memorandum of Understanding for the development and deployment of Westinghouse AP300 small modular reactor in Ukraine.

The document was signed by President of SE NNEGC Energoatom Petro Kotin and Westinghouse Chief Executive Officer Patrick Fragman, with Minister of Energy of Ukraine Herman Halushchenko in attendance.

The agreement on the SMR construction establishes a joint working group to collaborate on areas such as contracting, licensing and the local supply chain. The Minister of Energy of Ukraine Herman Halushchenko highlighted that the small modular reactors technology is very promising for Ukraine, especially in terms of the implementation of the Energy Strategy of Ukraine until 2050.

"Ukraine has every prospect of becoming one of the clean energy leaders and increasing nuclear generation capacity both through the construction of new high-capacity power units and through the installation of small modular reactors, the first of which may appear within the next 10 years", he added, noting that an important component of the agreements is manufacturing localization. After all, there are not so many nuclear power professionals of such a level in the world as there are in Ukraine.

In turn, CEO of Westinghouse Electric Company LLC Patrick Fragman noted that his company is pleased to support the Ukrainian people and Energoatom with clean, reliable and secure energy.

"From nuclear fuel to plant services to electricity generation, Westinghouse is honored to be a trusted partner for Ukraine today and for decades to come", Patrick Fragman said.

"Energoatom keeps working on new projects of advanced nuclear technologies, on which the energy security of Ukraine depends in this challenging time. The company is doing its utmost to ensure that our state continues to move towards a carbon-free, clean future, an integral component of which is nuclear energy", Petro Kotin stressed in his turn.

As a reminder, the Energy Strategy of Ukraine until 2050 envisages the transition to carbon-free energy, for which nuclear generation will be one of the basic ones. The implementation of small modular reactor technologies is determined by one of the priorities of the development of the nuclear industry.

Another agreement signed by the parties provides for the deepening of cooperation between Energoatom and Westinghouse in the construction of the first of nine planned AP1000 units. In particular, it is planned to supply the major reactor components to the Khmelnytskyy NPP.

Energoatom

Petro Kotin, president of Energoatom, held a production meeting at one of the domestic nuclear power plants

Energoatom, 15.09.2023

On September 15, 2023, Petro Kotin, the President of the SE NNEGC Energoatom during a working visit to one of the domestic nuclear power plants, held a production meeting with the management and staff of the plant.

Oleg Korikov, Acting Chairman of the State Nuclear Regulatory Inspectorate - Chief State Inspector of Nuclear and Radiation Safety of Ukraine, also took part in it.

Those present discussed the main results of the work, the progress of the repair campaign, as well as the issue of strengthening security at the nuclear facility.

Petro Kotin reminded that the most extensive repair campaign is underway in Ukraine, as a result of which seven nuclear power units, six of which are "thousands", are connected to the power grid after planned repairs.

The President of Energoatom thanked the nuclear engineers who professionally carry out repair work ahead of schedule: "This is very important, because it was precisely because of the shortening of repair times that we produced an additional amount of electricity, which allowed the power system to go through all the busy summer months without outages. Two more power units that remain under repair will be connected approximately in mid-October, also ahead of schedule. Energoatom works for Ukraine and Ukrainians!»

At the end, Petro Kotin presented awards to the station employees: certificates of honor from the Cabinet of Ministers of Ukraine, Verkhovna Rada of Ukraine, badges "Honorary worker of atomic energy", "Excellent of nuclear energy", award "For significant contribution to the development of nuclear energy of Ukraine" and certificates for significant personal contribution to ensure the stable operation of the energy complex of Ukraine under martial law conditions, conscientious work and high professionalism from SE NNEGC Energoatom.

"Thank you for what you are doing, for what has already been done, for the fact that you are constantly supporting nuclear energy and Ukrainian energy in general. In fact, the light in the homes of Ukrainians in these difficult times of russian military aggression against us depends on you. It will end with a Victory, and everything you do will remain in the history of NNEGC Energoatom. Thank you!" - emphasized Petro Kotin, president of Energoatom.

Thanks to an effective repair campaign, Energoatom increases the production and sale of electricity, and covers the obligations for the fulfillment of PSO

Energoatom, 15.09.2023

SE NNEGC Energoatom is completing the scheduled repair campaign of 2023 - seven nuclear power units have already been connected to the combined power grid, of which six are "thousands".

Putting power units into operation after planned overloading with fresh fuel allowed Energoatom to generate electricity as well as income from its sale. This makes it possible to pay the PSO service

(special duties for ensuring the availability of electricity for household consumers) in full already in September.

Thus, as of today, NNEGC has already paid more than UAH 6.3 billion for the PSO service for September 2023, or 70% of its projected cost, which gives universal service providers the opportunity to use about UAH 3 billion for their own calculations.

In addition, in September 2023, Energoatom reduced the debt for the PSO service, which arose due to the occupation and shutdown of the ZNPP last year, by more than 2 billion hryvnias.

In the near future, two more nuclear power units operating in the territory controlled by Ukraine will be taken out of planned repair. Therefore, Energoatom will work at the maximum available capacity, providing Ukrainians with electricity in the winter period and fulfilling all financial obligations.

Energoatom and Ukrzaliznytsia: cooperation that brings Victory closery

Energoatom, 13.09.2023

The important cooperation between the largest producer of electricity SE NNEGC Energoatom and its largest consumer Ukrzaliznytsia began in 2021, when the first purchase of electricity directly from the Company under direct contracts took place.

Thanks to this, according to the results of 2022, Ukrzaliznytsia saved more than 4 billion hryvnias. In the 1st quarter of 2023, Energoatom sold electricity to the national carrier at a price 30% lower than the market price.

In general, the additional financial burden of NNEGC regarding the sale of electricity for UZ under the special conditions determined by the Government to support the transport company for 2021 - 9 months of 2023 amounts to more than 7.6 billion hryvnias.

Thus, not only the uninterrupted operation of railway transport at a favorable price is ensured, but also a considerable contribution to the victory of Ukraine over the russian invaders.

Thanks to the transport connection, the necessary military equipment, Ukrainian defenders, etc. are moved. In addition, the evacuation trains of Ukrzaliznytsia saved hundreds of thousands of Ukrainian lives during active hostilities on the territory of our country and delivered hundreds of international partners to Ukraine in conditions when other modes of transport were unavailable.

In a difficult time for the country, Energoatom supported the largest carrier of Ukraine. Energoatom works for Ukraine and Ukrainians!

Uranus

Energoatom dispatched the first batch of uranium mined in Ukraine to a Canadian strategic partner

Energoatom, 15.09.2023

The first batch of Ukrainian uranium mined at the Eastern Mining and Processing Plant (SkhidGZK) was loaded and dispatched to Canada, where the Ukrainian uranium will be used for the production of nuclear fuel for the needs of domestic NPPs at the CAMECO facilities.

This was reported by President of SE NNEGC Energoatom Petro Kotin.

“The agreement with our strategic partner CAMECO provides for the supply of the entire volume of uranium mined at the Eastern Mining and Processing Plant to Canada and its further conversion into natural uranium hexafluoride (UF6). Such a process is necessary to prepare for dispatching it for enrichment to our other strategic partners – URENCO company (Great Britain), and then – to Westinghouse already for nuclear fuel manufacture. Such nuclear material processing is not available in Ukraine yet. But we are working on creating the appropriate capacities," Petro Kotin stressed.

Currently, special transport with uranium is moving through Europe.

As a reminder, the cooperation between Energoatom and CAMECO began in 2019 with the signing of a Memorandum of Understanding in the nuclear field. After that, the partnership only expanded and strengthened. After lengthy negotiations, on March 19, 2023, in London, President of SE NNEGC Energoatom Petro Kotin and CAMECO President and CEO Tim Gitzel signed bilateral contracts to expand the ongoing cooperation between the companies. The signing ceremony was held in the presence of the Minister of Energy of Ukraine Herman Halushchenko, who joined the ceremony online.

Thus, CAMECO will provide 100% of Energoatom’s needs for natural uranium hexafluoride for Rivne, Khmelnytskyy and South Ukraine NPPs from 2024 through 2035. The contract also envisages the possibility of supplying the Zaporizhzhya NPP with uranium hexafluoride as soon as control over the nuclear plant is returned to its legitimate operator – Energoatom.

Another agreement stipulates that Energoatom shall sell to Canada domestic uranium, which is mined by the Eastern Mining and Processing Plant in Ukraine. Cameco will provide the conversion of Ukrainian uranium for Energoatom's needs.

In April 2023, SE NNEGC Energoatom signed an agreement with a Canadian company on the physical delivery of uranium concentrate from Ukraine to Canada. The companies also signed a memorandum on the development of the uranium mining industry in Ukraine with the assistance of Canadian partners.

Companies

Viktor Subotin refutes the information published in the mass media

Ukrenergymachines, 15.09.2023

General Director of JSC "Ukrainian Energy Machines" (formerly JSC "Turboatom") Viktor Subotin refutes the information published in some media about his alleged withdrawal of funds from the company through "Megabank".

On September 14-15, news appeared on a number of websites, the original source of which was former People's Deputy Oleksandr Chernenko. On his Facebook page, Chernenko wrote in particular that "the director of the state-owned Turboatom withdrew UAH 1.4 billion from the company through his Megabank". Also, Chernenko's post contained the phrase "Megabank" was declared insolvent, but its problems arose not because of a full-scale war, but long before it".

Note that as of September 15, this entry on Chernenko's Facebook page has already been deleted.

According to Subotin, the decision of the District Administrative Court of the city of Kyiv in case No. 640/12723/22 recognized as illegal and annulled the decision of the Board of the National Bank of Ukraine dated June 2, 2022 "On classifying the joint-stock company "Megabank" as insolvent". This decision was left unchanged by the decision of the Sixth Administrative Court of Appeal.

"Therefore, the court's decision has entered into legal force and completely refutes the published information on this matter", Subotin emphasizes.

With regard to the alleged withdrawal of Turboatom's funds, the general director emphasized that all funds that were in the accounts of JSC "Ukrainian Energy Machines" (formerly "Turboatom") and are still fully accounted for in the corresponding accounts in JSC "Megabank". Subotin categorically denies the fact of withdrawal of funds.

"As a result of illegal actions related to the liquidation procedure of JSC Megabank, funds were temporarily blocked, but no withdrawal of funds outside the bank took place. In addition, the fact of illegal blocking of the correspondent account of JSC Megabank by the National Bank of Ukraine in order to prevent the transfer of funds from the account in JSC "Ukrainian Energy Machines" to the company's accounts in other banks is also the subject of consideration of the aforementioned court case No. 640/12723/22", Subotin said.

He also emphasized that ex-People's Deputy Chernenko was found guilty of corruption in 2020 and received a suspended sentence. Subotin connects Chernenko's actions in spreading false information with the ex-people's deputy's desire to obtain personal benefit.

Viktor Subotin demands that the mass media refute the unreliable information - according to him, relevant letters will be sent to all the sites that shared Chernenko's post.

In case of refusal to refute, the general director of "Ukrainian Energy Machines" will prepare lawsuits in court.

Westron Has Supplied the Modernized Cards Industrial Batch, Intended for Temelin NPP (Czech Republic) Control Systems

Westron, 31.08.2023

Westron has manufactured, tested and shipped to the Customer another part of industrial batch of modernized QAW\QID Cards, intended for Czech Temelin NPP Control Systems. The cards have been manufactured under the Contract concluded between Westron and Westinghouse Electric Czech Republic as a part of Hardware-and-Software Platform WDPF Long Term Support Program.

The cards have subjected to complete volume of the tests, required for the NPP control systems, at the test beds in Westron.

Completion of the cards industrial batch supply according to the Contract is planned by end of this year.

Energy Safety Group is a partner of the 5th International conference “Prospects for the Introduction of Innovations in Nuclear Energy”

ES Group, 14.09.2023

On September 20, registration ends for the 5th International Conference “Prospects for the Introduction of Innovations in Nuclear Energy”, which will be held in the Great Conference Hall of the National Academy of Sciences of Ukraine on September 28-29, 2023.

In addition to the reports, the conference provides an expert discussion on the topic: “Functioning and development of nuclear energy taking into account russian aggression”.

SE NNEGC Energoatom, Research and Production Enterprise Atom Kompleks Prylad, Phoenix Contact, Argus Service LLC, Synergoatom, Bresson and Czechatom were also partners of the conference.

The organizer of the event is the Ukrainian Nuclear Society, of which our company is a member, the Institute for Safety Problems of Nuclear Power Plants and the Council of Young Scientists at the Department of Physical and Technical Problems of Energy of the National Academy of Sciences of Ukraine.

Co-organizers are also the Institute for Nuclear Research and the Gas Institute of the National Academy of Sciences of Ukraine, the State Scientific and Technical Center for Nuclear and Radiation Safety.

Science and education

Patent received

ISP NPP, 15.09.2023

In August 2023, the Institute of Safety Problems of Nuclear Power Plants of the National Academy of Sciences of Ukraine received a patent for a useful model of a device for burning solid materials and sampling for the analysis of substances contained in smoke.

The developers of the useful model are V. K. Shinkarenko and A. M. Novikov, employees of the Department of Radiation Ecology.

The useful model belongs to the field of solving environmental problems, optimizes technical means of monitoring the state of the environment, and provides a new technical solution for assessing the redistribution of man-made pollution during the burning of solid materials of biological origin.

This useful model was made and tested during the assessment of 137Cs redistribution in forest litter samples of the exclusion zone of the Chernobyl nuclear power plant. The model has been tested and is being used in the course of the research project "Prediction of the effects of natural fires on forest ecosystems and the extent of their recovery in radioactively contaminated territories of Ukraine based on modern physical, mathematical and geo-informational methods".

GUAM Countries Showcase Regional Cooperation in Nuclear Forensics

STCU, 12.09.2023

The GUAM Regional Workshop, titled "Signatures of Nuclear and other Radioactive Materials and Use of Nuclear Forensics Information Systems", held on September 11-12, 2023, in Baku, Republic of Azerbaijan, showcased the unique regional cooperation among Georgia, Ukraine, Azerbaijan, and Moldova (GUAM) in the field of nuclear forensics.

The seminar, organized as part of the STCU project 9914, "Information-driven support to nuclear forensic interpretation", marked a significant step towards enhancing nuclear forensic capabilities and fostering collaboration among the GUAM countries.

The primary objective of the workshop was to demonstrate the practicality and investigative value of the National Nuclear Forensics Library (NNFL) and Regional Nuclear Forensics Information System (RNFIS) in the GUAM countries. These systems aim to support nuclear forensic investigations by providing access to critical information and resources.

To facilitate the seminar, four realistic scenarios were developed for each participating country, based on actual nuclear forensic investigations. During the workshop, each team showcased how they utilized their respective National NNFL, Regional NFIS, and the NNFLs of partner countries to advance nuclear forensic investigations. The cooperation among these countries proved to be a vital asset, supporting investigations and prosecution at various stages.

This seminar underlined the importance of regional collaboration in addressing nuclear security challenges. The GUAM countries' joint efforts not only demonstrated the efficiency of their nuclear forensic informational systems capabilities but also highlighted the benefits of fruitful regional cooperation. Such collaboration can significantly enhance their capacity to respond to nuclear security threats effectively.

The results of the workshop have provided valuable insights into the further actions needed to consolidate these processes at both the national and regional levels. It is expected that this initiative will serve as a model for other regions, emphasizing the importance of international cooperation in nuclear forensics and security.

This Regional Workshop represents a significant milestone in GUAM countries' commitment to strengthening their nuclear forensic capabilities and working together to ensure the safety and security of their region and the world.