

INFORMATION DIGEST

JANUARY 22-23, 2024



Status of the Ukrainian nuclear power plants and the nuclear industry of Ukraine

- According to the SE NNEGC Energoatom, on January 22-23, 2024 power units of Ukrainian nuclear power plants which are located on the territory controlled by Ukraine worked to meet the needs of the population and the country's economy.
- According to the International Atomic Energy Agency, the IAEA teams at the Rivne, Khmelnytsky, and South Ukraine NPPs as well as the Chernobyl site continue to report that nuclear safety and security is maintained despite multiple air raid alarms heard over the past week. The IAEA experts at the Khmelnytsky, Rivne and South Ukraine NPPs have reported air-raids on a near-daily basis with the teams at the Khmelnytsky and Rivne NPPs required to take shelter on several occasions.

Current situation on Zaporizhzhya NPP

- According to the SE NNEGC Energoatom on January 22-23, 2024, the Zaporizhzhya NPP received power for its in-house needs from the energy system of Ukraine. On January 22-23, 2024, the exposure dose rate of gamma radiation in the area where the Zaporizhzhya NPP complied with current standards.

According to the IAEA Director General Statement on Situation in Ukraine updated on January 19, Ukraine's Zaporizhzhya Nuclear Power Plant (ZNPP) lost its immediate back-up power supply to the reactor units for several hours this week, in the latest incident underlining persistent nuclear safety and security risks at the site, Director General Rafael Mariano Grossi of the International Atomic Energy Agency (IAEA) said today.

Thursday's failure of two of the ZNPP's back-up power electrical transformers showed the continuing vulnerability in the availability of external power, which the plant needs to cool its six reactors and for other essential nuclear safety and security functions.

Even though the back-up 330 kilovolt (kV) line remained available and could have provided power to the ZNPP if the 750 kV line was lost, the failure reduced the redundancy of the already fragile power supply. These two power lines are the only ones that remain available for Europe's largest nuclear power plant (NPP), compared to four 750 kV lines and six 330 kV lines before the conflict.

The back-up power supply was restored eight hours later when two other back-up power electrical transformers were put into operation. The ZNPP is investigating the cause of the failure, informing the IAEA experts at the site that



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there was no sign of external transformer damage.

The incident came just a few weeks after the ZNPP – following discussions with the IAEA – carried out work on the back-up power electrical transformers so that the 330 kV line could immediately deliver electricity if the 750 kV line were to fail, as has happened repeatedly during the armed conflict.

“The plant’s vulnerable power status remains one of the main dangers for nuclear safety and security at the site. The situation remains extremely worrying in this respect. The site has already lost all off-site power eight times since August 2022, forcing it to rely on emergency diesel generators,” Director General Grossi said.

During the past week, the IAEA experts discussed the plant’s maintenance activities with the ZNPP and were shown its high-level 2024 maintenance plan for such work, which is vital for nuclear safety and security. The ZNPP informed the IAEA team that the priority is to perform maintenance on the site’s safety systems as well as important activities not conducted last year. The annual maintenance plan includes the safety systems, diesel generators, unit transformers and the 750 kV electrical switchyard.

The IAEA team did not receive a copy of the maintenance plan for a detailed review. However, based on discussions and information provided to the team, the IAEA concludes that the ZNPP will not be implementing a comprehensive maintenance plan during 2024.

“A well-established maintenance plan and its timely implementation are essential to ensure plant safety and security,” Director General Grossi said. “This maintenance needs to be performed to ensure nuclear safety, especially in the current situation where the six reactors have been shut down for an extended period. It is important that the IAEA has a thorough understanding of the maintenance plans to be able to fully assess nuclear safety at the ZNPP. We will continue to monitor the maintenance situation closely.”

The IAEA team has continued to conduct walkdowns at the site, including to all six main control rooms yesterday, where the experts were able to observe staffing levels but could not ask questions about their qualifications and experience.

After being granted access to the reactor hall of unit 6 earlier this week, the IAEA experts are still seeking access to the other reactor halls, as well as to parts of all six turbine halls that they have not yet been able to visit, as well as to some of the reactor rooftops. Such access is needed to monitor nuclear safety and security as well as adherence to the five concrete principles for the protection of the ZNPP, Director General Grossi said.

The IAEA team has continued to monitor the situation and gather information regarding boric acid deposits in some of the safety system rooms of unit 6, which



were first observed on 22 December. During yesterday's visit to its main control room, the team confirmed that the level of boric acid in the storage tank was above the minimum level in the technical specifications, despite the previously observed leak of boric acid.

Mines along the perimeter of the ZNPP, in a buffer zone between the facility's internal and external fences, which were previously identified by the IAEA team and were removed in November 2023, are now back in place. This is a restricted area inaccessible to operational plant personnel. Director General Grossi reiterated that the presence of mines is inconsistent with the IAEA safety standards.

Current situation on Chornobyl NPP and in the Exclusion Zone

- On January 22-23, 2024, the radiation situation at the ChNPP site was without changes. The monitored parameters of the equipment were within the boundaries set by the technological regulations. Operating personnel continues to ensure nuclear and radiation safety.

War in Ukraine

- On January 23, 2024, is the 699 day of the resistance Ukraine to the russian military invasion.
- On the morning of 23 January, an air alert was declared throughout Ukraine.
- According the General Staff of the Armed Forces of Ukraine, during the day, the enemy launched a combined missile attack on Ukraine, using cruise, ballistic, air and anti-aircraft guided missiles. According to updated information, a total of 44 enemy air attack vehicles were spotted: 4 S-300/S-400 anti-aircraft guided missiles, 15 X-101/X-555/X-55 cruise missiles, 8 X-22 missiles, 12 Iskander-M ballistic missiles, 5 X-59/X-31 guided aircraft missiles. As a result of combat operations, air defence forces and means destroyed: 15 X-101/X-555/X-55 cruise missiles, 5 Iskander-M ballistic missiles, 2 X-59 guided missiles.
- Unfortunately, there were killed 18 and about 100 wounded civilians, including children, as a result of russian terrorist attacks. Multi-storey and private houses, schools, a sports complex and other civilian infrastructure in Kyiv city and Kyiv region, Kharkiv and Pavlohrad in the Dnipropetrovsk region were destroyed and damaged.
- As result of morning missile strikes in Kharkiv, 112 apartment buildings are damaged. The death toll as a result of the russian attack on Kharkiv has risen to eight, including eight years old girl, 57 people were injured. On the evening of 23 January, the russian army launched a missile attack on the central districts of Kharkiv for the third time in 24 hours, damaging residential buildings. Civilians were injured.
- Rescuers have completed rescue operations in Kyiv after the russian missile attack on the capital on 23 January: 22 people were injured, including 4 children, and 12 people were hospitalised. A total of 55 people were evacuated and rescued. Twenty-eight objects were damaged, including residential buildings, a medical facility, educational institutions and cars.
- On the morning of January 23, the russian occupiers attacked the city of Beryslav



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in Kherson region, dropping four aircraft bombs. A multi-storey building was damaged, one of the factories, a car park and a kindergarten were also hit.

- On January 22, the occupiers once again attacked the city of Kupiansk in the Kharkiv region with artillery. One person killed, there is wounded.
- According the General Staff of the Armed Forces of Ukraine, the russian occupiers attacked on seven fronts, with the greatest activity on the Avdiivka and Marinka fronts. russia keeps mounting huge pressure on the city of Avdiivka in Donetsk region, occupation forces are relentlessly assaulting the city. Grey zone has shrunk, but russian sabotage and reconnaissance groups had not been able to enter the city even though they had come very close to it.
- The operational environment in eastern and southern Ukraine remains difficult. Ukrainian Armed Forces repelled attacks in six sectors: Kupiansk, Lyman, Bakhmut, Avdiivka, Marinka, Shakhtarsk directions.
- The situation in the north directions remained unchanged. There are no signs of the formation of offensive groups. Certain units of the belarusian Armed Forces are performing tasks in the areas bordering Ukraine. On the Siversk and Slobozhansk directions, the russia maintains a military presence in the border areas, conducts sabotage and reconnaissance activities, shells populated areas from the territory of the russian federation, and increases the density of minefields along the state border of Ukraine. russian troops carried out air strikes near several settlements in the Kharkiv region. More than 40 settlements were subjected to artillery and mortar attacks by the occupiers in the Chernihiv and Sumy regions;
- In the south, in Zaporizhzhya direction, russians with the support of aviation, unsuccessfully tried to regain the lost ground. More than 25 settlements came under artillery and mortar fire.
- In the Odesa and the Kherson directions, russian military conducted massive air strikes. russians drop guided aerial bomb on house in the Shliakhove village in Kherson region - woman killed. The enemy does not abandon its intention to knock Ukrainian units out of their footholds on the left bank of the Dnipro river.
- Ukrainian Government allocated UAH 657 million to Ministry of Defense to meet needs of military. The Ministry of Defense will use this money to purchase equipment and weapons, optical and thermal imaging devices, communications equipment, ammunition production, repair and maintenance of equipment, as well as spare and component parts for it.
- Germany to provide Ukraine with military helicopters for first time. Following the 18th Ramstein-format meeting, German Defence Minister Boris Pistorius has announced that Germany will hand over decommissioned Sea King Mk41 multipurpose military helicopters to Ukraine.

Sources: t.me/V_Zelenskiy_official, t.me/energoatom_ua, Centre for Strategic Communication, Ministry of Defense of Ukraine, the National Police of Ukraine censor.net, Ukrainska Pravda, radiosvoboda.org, eurointegration.com.ua



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As result of missile attacks on Kharkiv on January 23, 8 are dead, including eight years old girl. 57 are wounded, among them – 4 children.



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Four guided bombs were dropped by russians on the city of Beryslav in Kherson region [southern Ukraine] on January 23: high-rise building was damaged, factory, car park and kindergarten were hit.



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russians attacked rescuers three times on January 23, one person injured. Rescuers in Kharkiv, Nikopol, and Kherson region came under fire from the occupiers.



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Consequences of a missile attack on Kyiv on January 23.



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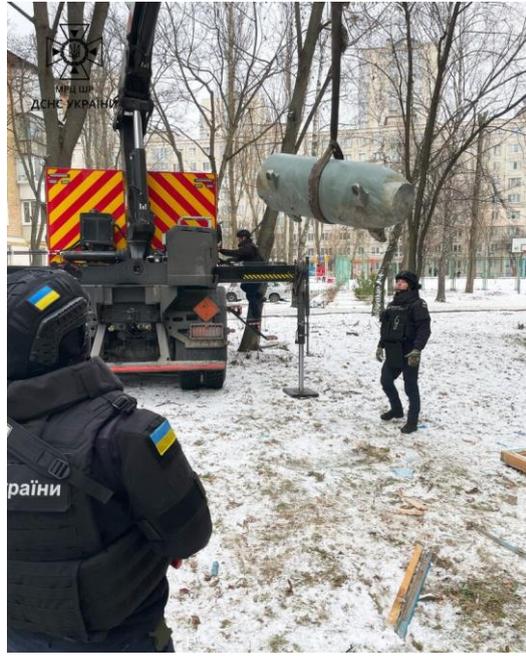


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In one of the districts of Kyiv, pyrotechnics removed a warhead of an X-101 missile after russian missile attack on Kyiv in the morning of 23 January.



DEAR COLLEAGUES

THE UKRAINIAN NUCLEAR SOCIETY IS ACTIVELY ENGAGED IN VOLUNTEER ACTIVITIES, HELPING OUR COLLEAGUES FROM NUCLEAR POWER PLANTS, REFUGEES FROM THE ZAPORIZHZHIA NPP, AS WELL AS OUR MEMBERS WHO JOINED THE ARMED FORCES TO DEFENDED OUR COUNTRY.

SUPPORT THE ANS-ENS UKRAINIAN NUCLEAR WORKERS HUMANITARIAN FUND

WE ARE VERY GRATEFUL FOR ANY HELP AND SUPPORT!

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PRESENTATION ABOUT VOLUNTEER ACTIVITIES

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