

INFORMATION DIGEST

NOVEMBER 27-28, 2023



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

- According to SE NNEGC Energoatom, Currently, on November 27-28, 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.
- On November 27, 2023, Petro Kotin, President of SE NNEGC Energoatom, and Urenco Chief Executive Officer Boris Schucht signed a contract on the supply of enriched uranium product for Ukrainian NPPs.

According to the document, Urenco will supply Energoatom with enriched uranium until 2035 with an option to renew the contract until 2043. After abandoning Russian nuclear fuel, Westinghouse Electric Sweden (hereinafter referred to as Westinghouse) became the sole supplier of fuel assemblies for the needs of power plants of SE NNEGC Energoatom while the supplier of enriched uranium, used for Westinghouse fuel manufacture, is the UK-based Urenco Enrichment Company Ltd (Urenco). Current contracts with Urenco on the supply of nuclear materials, namely, enriched uranium product (EUP) and natural uranium hexafluoride (UF₆), expire in 2025. Therefore, it was vital for Energoatom to continue long-term cooperation, which will ensure the stability of the supply of enriched uranium for nuclear fuel manufacture for the needs of Ukrainian NPPs.

Current situation on Zaporizhzhya NPP

- According to the SE NNEGC Energoatom on November 26, 2023, at 10:30 am, due to a short circuit occurred around 100 kilometres north of the Zaporizhzhya nuclear power plant captured by the Russians, the sole remaining (fourth) transmission line linking it to the energy system of Ukraine, ZNPP 750 kV power line – «Dniprovsk», was cut. Three other lines were damaged even earlier during the Russian shelling.

As reported by the IAEA, at that time the ZNPP was receiving external power from its only available 330 kV back-up power line.

Additionally, the power unit 4 went to a partial blackout mode. The diesel generator started operating and was manually shut down after ten minutes, indicating a possible issue with electrical configuration of a nuclear facility.

The damaged 750 kV line was restored by Ukrainian specialists at 8:52 pm. Until now, the Zaporizhzhya NPP has been on the verge of another blackout for almost a whole day in case of the 330 kV reserve line power loss.



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As a reminder, while under russian occupation, the Zaporizhzhya NPP has lost external power supplies repeatedly, while the power plant has already experienced seven complete and one partial loss of off-site power events.

- According to the SE NNEGC Energoatom, russians use ZNPP as a firing position for MLRS deployment and shelling of Ukrainian territories. On Sunday, November 26, 2023, experts of the International Atomic Energy Agency, present at the Zaporizhzhya NPP, heard the distinctive sounds similar to firing unguided rockets from a Multiple Launch Rocket System (MLRS).

The IAEA team did not see the projectiles because of clouds but the distinctive sound indicated they were fired from a MLRS nearby. «Today's events once again clearly demonstrate the extremely fragile nuclear safety and security situation at the Zaporizhzhya Nuclear Power Plant. Europe's largest nuclear power plant – located on the frontline – continues to face many potential threats as a result of this tragic war,» Director General Grossi said.

- As of November 27-28, 2023, the Zaporizhzhya NPP received power for its in-house needs from the energy system of Ukraine. As of 08:00 on November 27-28, 2023, the radiation state at the Zaporizhzhya NPP was within the current norms.

Current situation on Chornobyl NPP and in the Exclusion Zone

- On November 27-28, 2023, 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 November 28, 2023, is the 643 day of the resistance of Ukraine to the russian military invasion.
- According the General Staff of the Armed Forces of Ukraine, russian forces of the past day has significantly increased its activity. During the past day there were 87 clashes. The defense forces repel enemy attacks in the Kupyansk, Liman, Bakhmut, Avdiivka, Maryinsky, Shakhtar, Zaporizhzhya directions.
- In the Avdiivka direction [eastern Ukraine], the Armed Forces of Ukraine steadfastly hold the defense, in Melitopol [southeastern]- continue the offensive.
- Fierce battles continue in the city of Avdiivka industrial zone, weather conditions have added to the trouble. The russians are shelling the positions of the Ukrainian troops around the clock. In the Bakhmut direction [eastern Ukraine], russian troops have intensified for more than three weeks and are trying to regain their lost positions. In turn, the Defense Forces of Ukraine continue assault actions south of the city of Bakhmut.
- At present, the occupying forces have not abandoned their intentions to re-occupy Kupiansk, Kharkiv region. To achieve their goals, the invaders use aviation, activated the use of kamikaze drones, and carry out artillery shelling. Also, russia uses assault troops, consisting of former prisoners, penalty soldiers, "leading them to the so-called meat assaults. However, the enemy is not successful in this direction.



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- In the north directions, the operational situation remains without significant changes. During day, russians fired 22 times at Sumy region: three people were killed, including 7-year-old girl, and three more were wounded. russia maintains a military presence in the border areas, conducts active sabotage activities in order to prevent the transfer of our troops to threatening directions, increases the density of mine-explosive barriers along the state border in the Belgorod region of russian federation.
- In the southern direction, in Kherson region, Ukrainian defenders continue to hold occupied positions on left bank of the Dnipro river. On November 28, russians struck 26 settlements in Zaporizhzhya region within day, one person was killed, 4 people were injured.
- On the night of November 29, russian invaders attacked Ukraine with 21 "Shahed" UAVs and 3 Kh-59 guided air missiles. Air defense destroyed all the drones. The work of air defense was heard in Odesa, Dnipropetrovsk, Kyiv Kherson, Zaporizhzhya, and Khmelnytskyi regions. Two missiles were destroyed in the Mykolaiv region. The third one did not reach the desired target.
- On November 28, russians launched 11 missile and 35 air strikes, carried out 42 MLRS attacks on the positions of Ukrainian troops and populated areas.
- Ukrainian air defence has already shot down 15 russian Kinzhal missiles using Patriots. This was announced by the spokesman for the Air Force of the Armed Forces of Ukraine Yurii Ihnat. Other regions of Ukraine, not only the capital, are also already protected from russian attacks by Western air defense systems. This was stated by the spokesman of the Air Force. Each additional Western anti-aircraft system is a city or several objects covered from danger, he stressed.
- The russians are constantly changing the tactics of operating their UAVs, but the Defense Forces are demonstrating their skills, learning to repel air attacks and increasing the number of mobile fire groups. This was announced by the spokesman of the joint press center of the Northern Defense Forces, Yurii Povkh. "As we can see on the example of the last massive attack on the capital, in the Northern operational zone our tactics are yielding results, and the effectiveness of the actions of mobile fire groups is quite high," the spokesman said. Answering questions about the increase in the number of mobile fire groups, Povkh noted that their increase began in the summer of this year.

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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rusians shelled the city of Nikopol area [central Ukraine] with heavy artillery and UAVs: three people were injured, enterprises and high-rise buildings were damaged.



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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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Support Ukraine's nuclear workers and their families impacted by war.

