

Дата:27.03.2023

Група № Е-1

Урок № 93-94

Тема уроку: **«CHORNOBYL ACCIDENT»**

Мета уроку: Ознайомити здобувачів освіти з граматичним матеріалом; вивчити нову лексику; узагальнити знання граматичного матеріалу.

Матеріал уроку:

1. Прочитайте та перекладіть текст.



The accident, which was of global concern, was the accident in Ukraine in the Chernobyl power plant located in Poles'ye on the River Pripyat. It is considered the worst nuclear power plant accident in history and is the only level 7 event on the International Nuclear Event Scale.

On 26 April, 1986, Unit 4 of the Chernobyl nuclear plant suffered a major accident. The Chernobyl 4 reactor was a graphite-moderated, light-water-cooled system. The installed electrical generating capacity was 1 GW. The accident followed some engineering tests of a generator.

During the tests, basic operating safety rules were being violated. Most control rods were withdrawn from the core and the safety systems were switched off. Two explosions and a fire that followed them damaged the reactor and the containment building. The graphite started to burn. Explosive energy was released, which resulted in the 1000 ton cover plate of the reactor being lifted up.



The fire inside Reactor 4 continued to burn until 10th of May; it is possible that well over half of the graphite burned out. The fire was extinguished by a combined effort of helicopters dropping over 5,000 metric tons of materials like sand, lead, clay, and boron onto the burning reactor and injection of liquid nitrogen. Ukrainian filmmaker Volodymyr Shevchenko captured film footage of a Mi-8 helicopter as it collided with a nearby construction crane, causing the helicopter to fall near the damaged reactor building and kill its four-man crew.

A prolonged release of large quantities of radioactive products transported by the cloud from Chernobyl was detected not only in northern and southern Europe but also in Canada, Japan, and the USA.

The major part of the release took place over the period of about ten days. There were two peaks in release rate (26th April and 5th May). Later on, the release continued for many weeks at a lower rate before the destroyed reactor was finally sealed, which took place some five months later. Initially the cloud of radioactive material was carried over the Baltic Sea into Scandinavia. After a few days the wind direction rotated clockwise and the cloud travelled eastwards across the USSR and southwards to Turkey.

The total mass of the radioactive particles released in the accident was about 6000-8000 Kg. More than half of it was deposited near the plant but the rest travelled thousands of kilometers. Great damage was done to their economy, nature and people's health. The problem of Chernobyl has not been solved yet because of the economic difficulties that Ukraine is having now. The power plant was closed on December 15, 2000.

There is no doubt that the nuclear plant accidents offer a number of lessons to be learnt.

At present, over 200 nuclear power reactors for commercial electricity production operate in Europe.

The accident at the Chernobyl nuclear plant has shown that large-scale accidents in nuclear power plants can lead to contamination of the entire continent.

2. Дати відповіді на запитання.

1. What was the cause of the Chernobyl accident?
2. What was the path of the radioactive material released in the accident?
3. What can accidents at the nuclear plants lead to?
4. What Volodymyr Shevchenko was doing near the atomic power station?

3. Доповнити речення згідно тексту.

1. The Chernobyl 4 reactor was a...
2. During the tests, basic operating...the graphite started to bum.
3. ...until 10th of May; it is possible that well over half of the graphite burned out.
4. ...over 5,000 metric tons of materials like sand, lead, clay, and boron onto the...
5. Ukrainian filmmaker Volodymyr Shevchenko captured film footage of a Mi-8 helicopter as...
6. ...but also in Canada, Japan, and the USA.
7. Initially the cloud of radioactive material...
8. ...was about 6000-8000 Kg.
9. ...on December 15, 2000.
10. ...can lead to contamination of the entire continent.

4. Поєднати слова з їх значеннями.

1. Environment	a) an area set aside for preserving nature
2. Fauna	b) organism's physical and biological surroundings
3. Flora	c) warming of temperatures around the world
4. Garbage can	d) layer of gases that surrounds the earth
5. Global warming	e) animals or animal life
6. Climate	f) plants or plant life
7. Atmosphere	g) aspects of the weather (rainfall, light, air movement)
8. Biosphere	h)you can even kill with this dangerous thing
9. Litter	i)to continue to be alive after coming close to death

10.Pollution	j) to make dirty air, water, everything around us
11.Smog	k) rain polluted by chemicals
12. Species	l) it may be nuclear, industrial, dangerous
13. Acid rain	m) a result of people's bad actions in nature
14. To pollute	n) mixture of smoke and fog
15. Waste	o) a group of similar types of animals or plants
16. To poison	p) garbage like food, paper and cans
17. To survive	q) waste bin

Усі виконані завдання надсилайте на електронну адресу gr.ev@ukr.net з підписом у темі листа «ПБ, № групи та назва навчальної дисципліни»