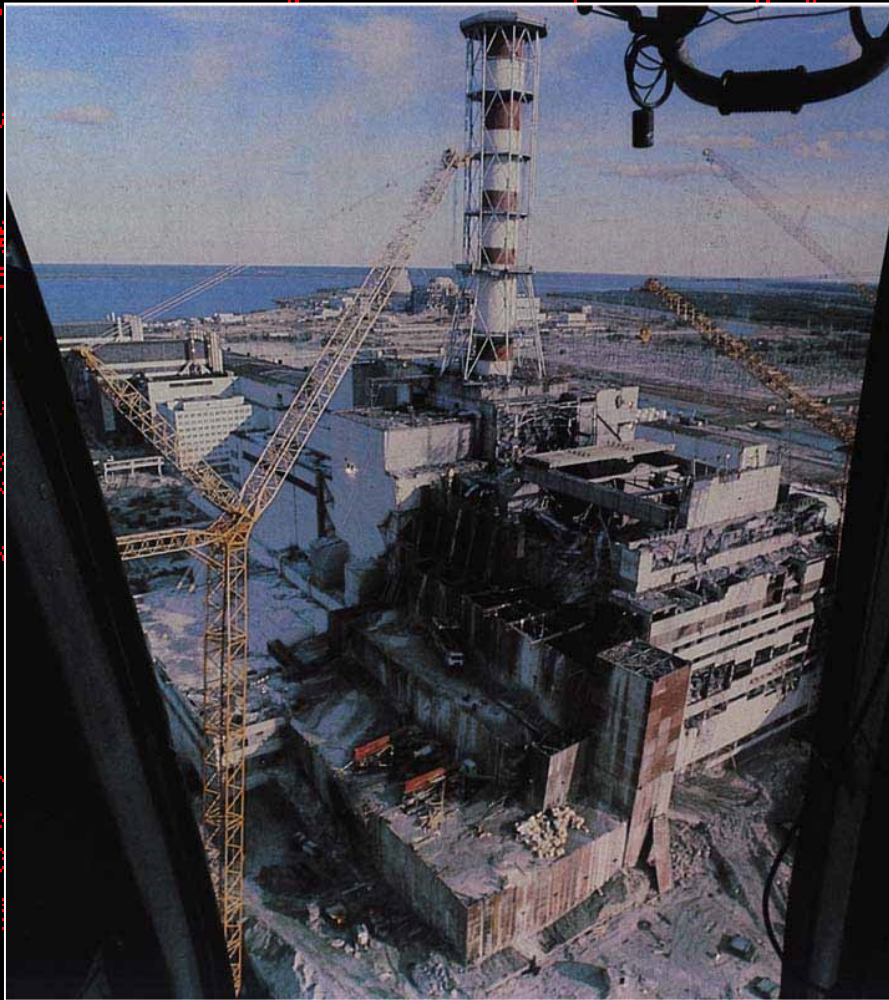


# CHERNOBYL

A NUCLEAR DISASTER



# LOCATION

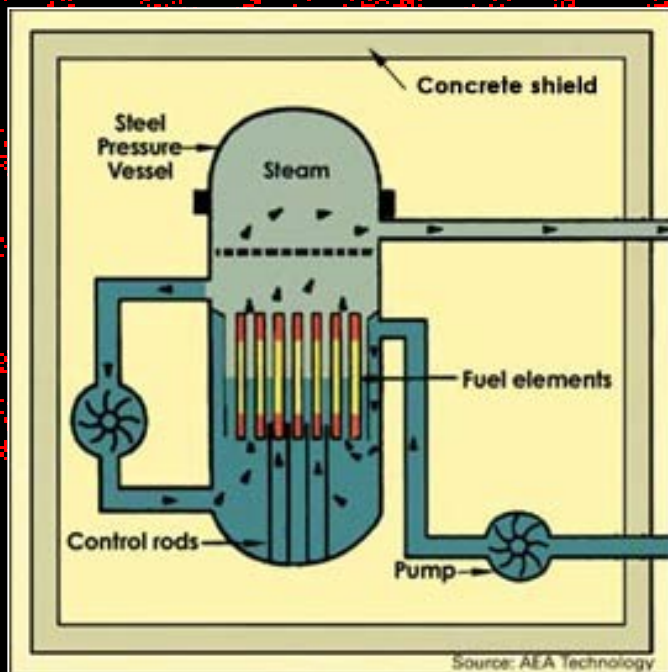


- in the Ukraine
- near the Belarus border
- 110km north of Kiev
- nuclear power station lies 15km from the town of Chernobyl

# THE NUCLEAR POWER STATION

In one nuclear station is one or more reactors.

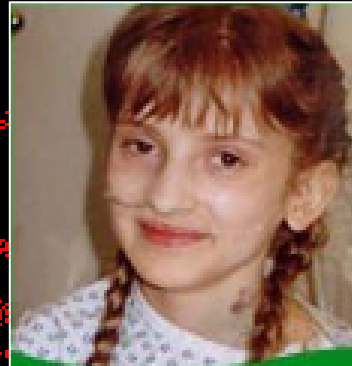
If they work, they are very hot, and need to be cooled.



reactor

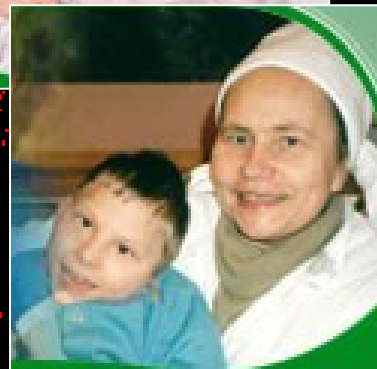
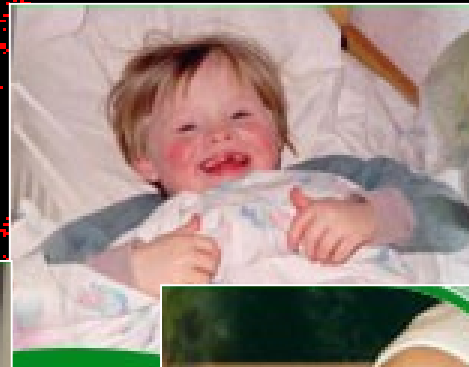
# THE RADIOACTIVE RADIATION

- invisible
- nothing is felt
- it is very dangerous for humans, specially for children, animas and plants.



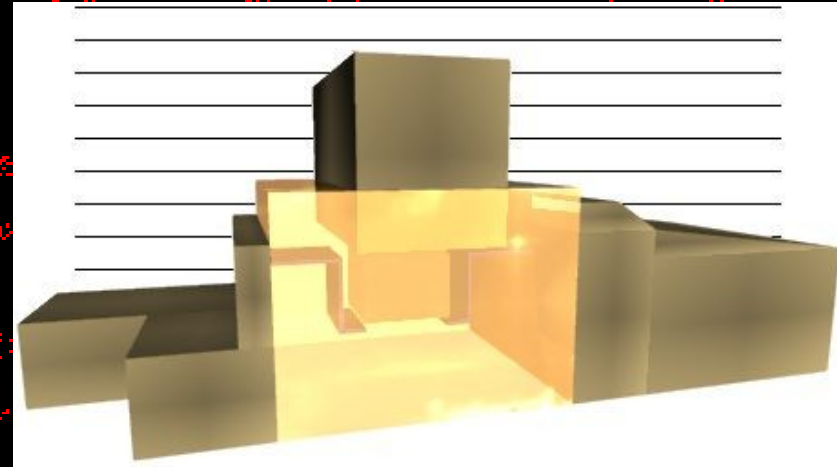
Is harmful in two ways:

- immediately after radiation:
  - radiation sickness
  - death
- many years after radiation:
  - cancer (leukemia)
  - genetic mutations
  - disfigured newborns
  - cardiac abnormalities

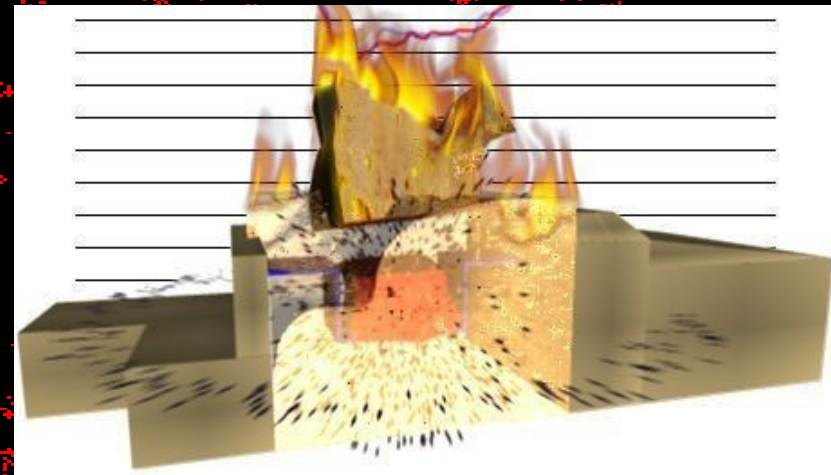


# THE DISASTER

- at night 25th April 1986 scientists made a dangerous experiment
- they changed the pressure in one reactor and temperature of it started to rise
- in some seconds the reactor blew up
- pieces of burning material were flying into the air
- 50 ton of nuclear fuel was released to the atmosphere



reactor before accident



# THE ACCIDENT

- the explosion of the reactor released huge radiation
- 7 million people lived in contaminated zone (3 million children) and they were not aware of the danger
- 1 person was immediately killed
- 35 fire-fighters helped to put out the fire and were also killed
- fortunately the fire was put out and didn't reach other reactors
- 25 000 soldiers, who cleaned up the place of accident died in 3 months



a special medal for help

# THE SPREAD OF RADIOACTIVITY



1.



Radioactivity moved north and west (Sweden, Poland)

to western Europe (Germany, France)

2.



3. to Great Britain, Spain, Italy, Slovenia

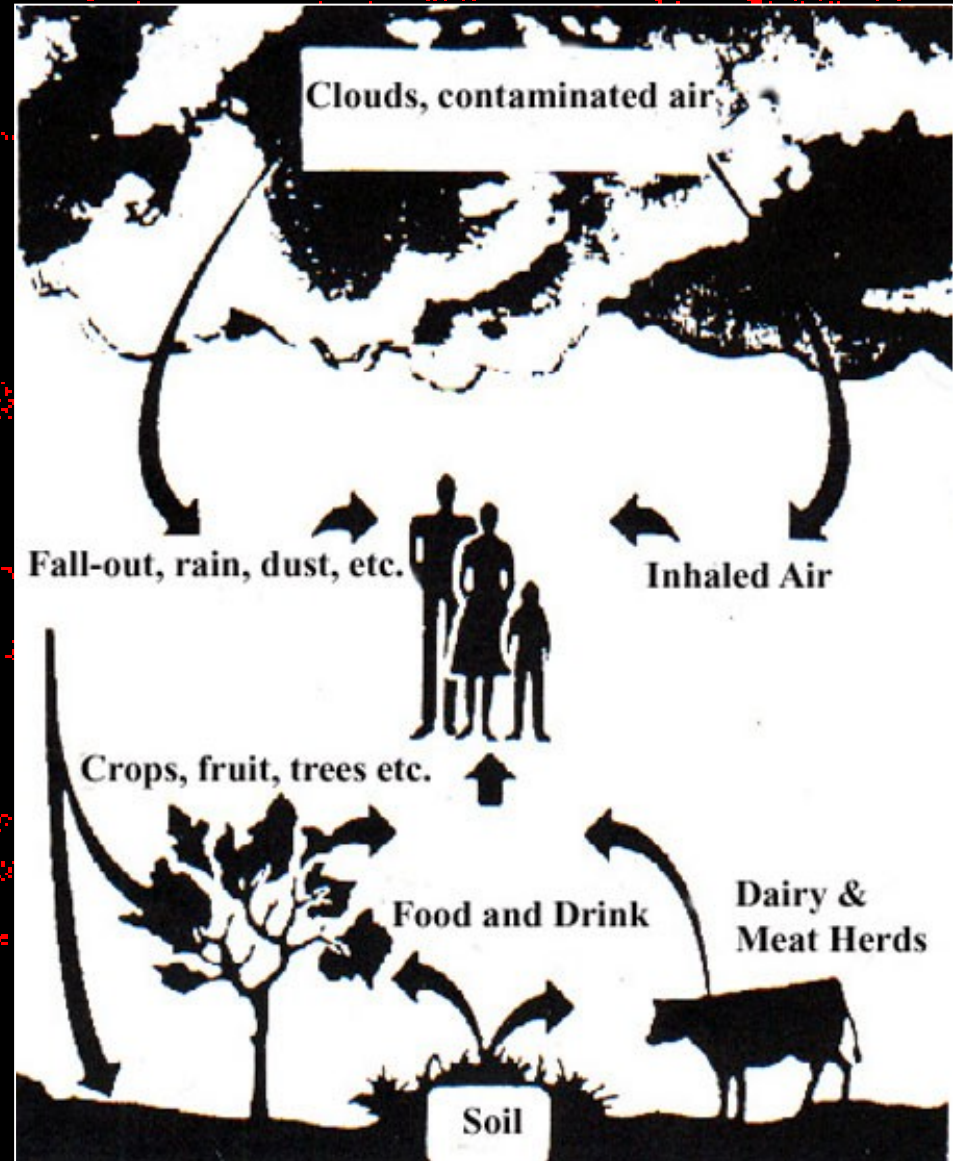


4.



# RADIOACTIVE ENVIRONMENT

- Air, soil, food (vegetable, fruit, milk, meat) became radioactive
- the ground was covered with radioactive dust
- radioactive fallout- radioactive material which drop from atmosphere, was formed
- 135 000 people moved from the Chernobyl





# AFTER THE ACCIDENT



- 1 800 helicopters deposited around 5 000 tons of sand onto the damage reactor
- most radioactivity was released in the first 10 days
- a massive sarcophagus was constructed around the reactor to prevent further radioactivity
- the 30km zone around Chernobyl became a desert

*Some children say:*

***“We didn’t just lose a village, we lost a life. Chernobyl is like a big stone in my heart, always heavy, always present.”***



# CONCLUSION

- Chernobyl disaster is the greatest environmental catastrophe of human history
- 20 years after the accident the 30km zone around Chernobyl is still uninhabited
- Chernobyl disaster was caused by human mistake
- nuclear power stations are very unpopular and we have to look for other ways of making electricity
- Chernobyl Children's Project International was founded to provide medical help and hope to the children of Chernobyl



THE END