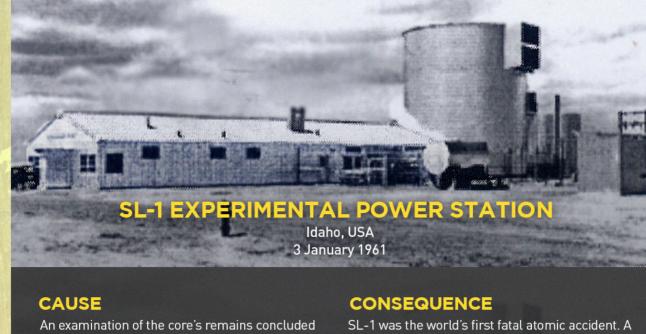


Chernobyl in Ukraine. Experts believe that thousands of people died from radiation exposure, and as many as 70,000 suffered from severe poisoning, although the full toll is still being tallied to this day. On the occasion of the incident's 30th year, we round up some of the world's worst nuclear disasters, ranked by their placement on the International Nuclear and Radiological Event Scale (INES).

On April 26, 1986, the world's worst nuclear power plant accident to date occurred at

Major Accident Serious Accident Accident with wider consequences Accident with local consequences Serious Incident Incident Anomaly Deviation

ACCIDENT WITH LOCAL CONSEQUENCES



that the control rod was manually withdrawn by total of three operators were killed, and another about 50 centimeters, causing a power surge that 22 received full-body exposure. 790 people more

Accident

Incident

melted the plate-type fuel instantly. When the molten fuel met water, an explosive amount of steam was generated, exacerbating the damage.

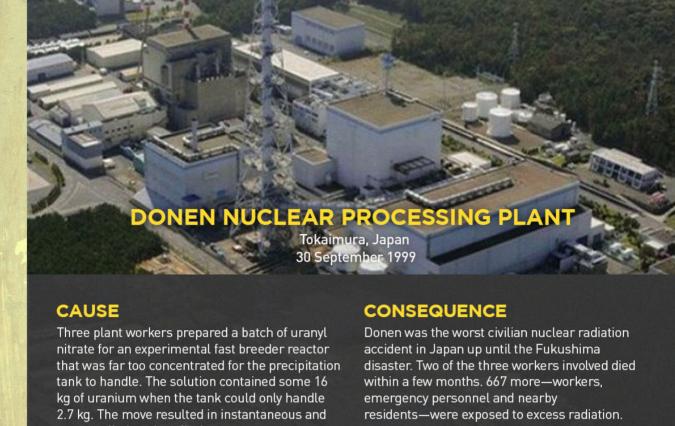
during cleanup.

were exposed to harmful levels of radiation



critical, causing the moderator to expand rapidly, and exposing the operator to significant

radiation.

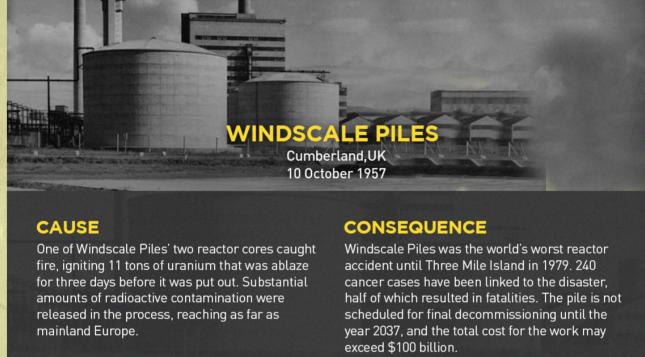


uncontrolled nuclear fission.

LEVEL 5



ACCIDENT WITH WIDER CONSEQUENCES



E MILE ISLAND

Pennsylvania, USA 28 March 1970



CAUSE

CAUSE

Two thieves broke into an abandoned private hospital, disassembled a teletherapy unit, and

took off with a small steel capsule containing highly radioactive caesium chloride. Several

people handled the capsule and ultimately

exposed some of its contents.

exposed to small doses.

LEVEL 6

SERIOUS ACCIDENT

OIANIA ACCIDEN Goais, Brazil 13 September 1987 CONSEQUENCE A total of four people were killed, and another

> 112,000 people were examined and tested. 249 of those were found to harbor high radiation levels,

while another 1,000 were found to have been



Chernobyl, Ukraine 26 April 1986 CAUSE The Chernobyl accident began with an electrical test conducted by workers who were trying to find a way to mitigate the risks of a power outage. That very test would create a sudden power surge, leading to a series of blasts that blew off the reac-

tor's 1,000-ton steel top.

MAJOR ACCIDENT

CHERNOBYL NUCLEAR PLANT

CONSEQUENCE 32 died at Chernobyl and dozens suffered radiation burns. 600,000 people involved in cleanup and recovery were exposed to radiation. Total number of cancer deaths may reach 4,000 from among those exposed.

Fukushima, Japan 11 March 2011

A major earthquake triggered a 15-meter high tsunami that struck Fukushima, disabling the power supply and halting the cooling of three Daiichi reactors. Within a few days, all three cores had reached full meltdown. As workers tried to cool and shut them down, a few hydrogen-air

CAUSE

explosions occurred.

FUKUSHIMA DAIICHI NUCLEA

CONSEQUENCE

to direct exposure to radiation.

SOURCES

159,128 residents were evicted from exclusion

zones, and 18,636 square meters of land area was

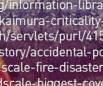
deaths or serious injuries have been reported due

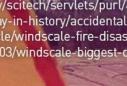
contaminated. 573 deaths in the area have since

been certified as 'disaster related.' However, no

http://www.history.com/news/historys-worst-nuclear-disasters http://www.processindustryforum.com/hottopics/nucleardisasters https://en.wikipedia.org/wiki/International_Nuclear_Event_Scale https://en.wikipedia.org/wiki/List_of_civilian_nuclear_accidents

https://en.wikipedia.org/wiki/SL-1
http://www.ucsusa.org/nuclear-power/nuclear-power-accidents/history-nuclear-accidents#.VyAgIdJ95dg
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