

## Benchmark review

Locate : United Kingdom, Belgium, Spain, Germany, France, Poland, Russia, Ukraine, Italy

Locate: The Alps, Pyreneese, English Channel, Ural mountains, Mediterranean Sea, Iberian Peninsula, Scandinavian Peninsula, European Plain, Rhine River, Danube River

## Acid Rain Effects on Sculptures



E. M. Winkler Stone Schmidt-Thomsen

1908

1969

C. Ophardt, c. 2003

# THREE DAYS OF NUCLEAR NIGHTMARE

**1** Friday 5:46 GMT: Earthquake strikes. Epicentre six miles below surface, 80 miles from Fukushima nuclear power plant



**8** State of emergency has been declared at the Tokai No.2 and Onagawa plants

**7** Sunday: Fire engines pump sea water directly into all three reactors to keep temperature and pressure down. Radiation levels outside plant exceed safety levels as more steam is vented.

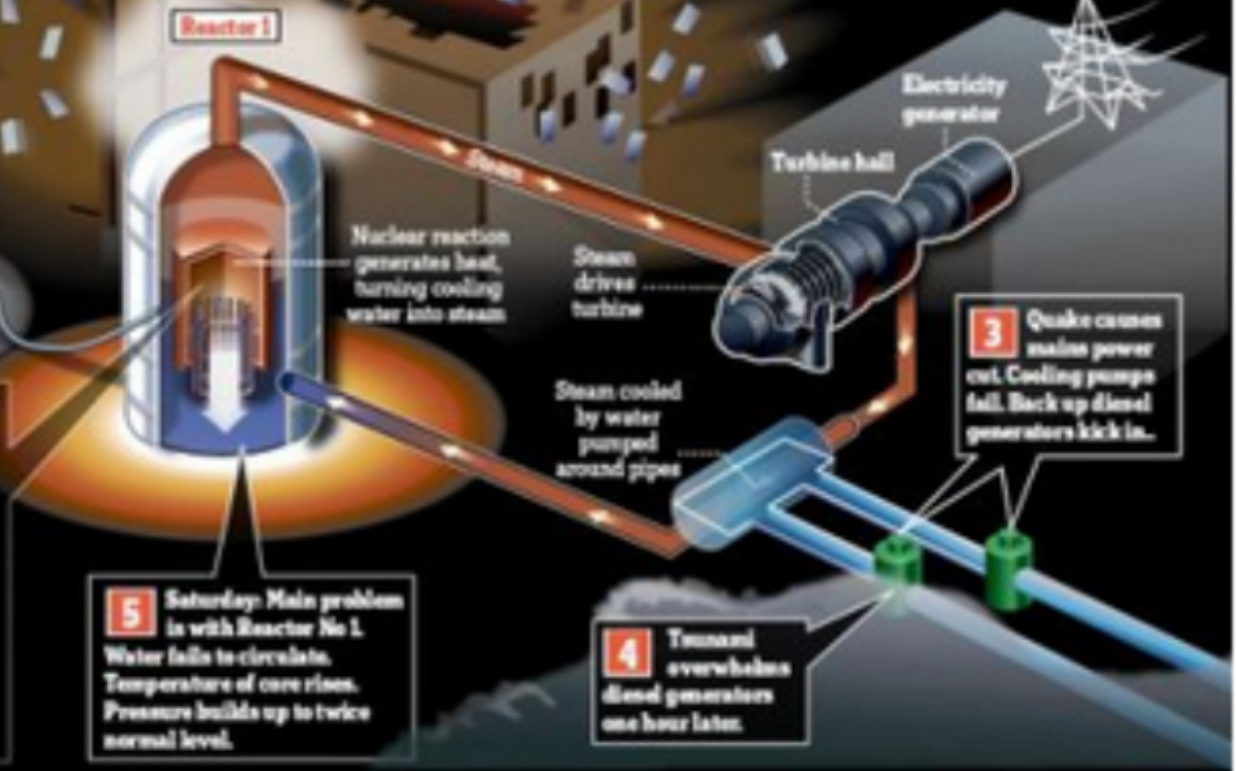


**6** To ease pressure superheated steam released out of reactor into building. At high temperatures steam changes into oxygen and hydrogen. Hydrogen ignites, destroying outer shell of building (left), but leaving reactor casing intact.

**5** Saturday: Main problem is with Reactor No 1. Water fails to circulate. Temperature of core rises. Pressure builds up to twice normal level.



**2** Three working reactors at Fukushima automatically shut down.



**4** Tsunami overwhelms diesel generators one hour later.