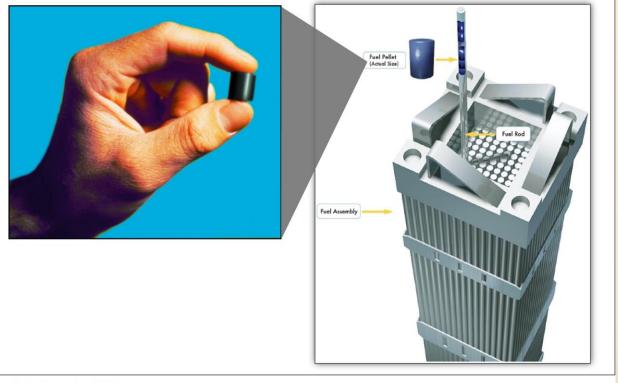


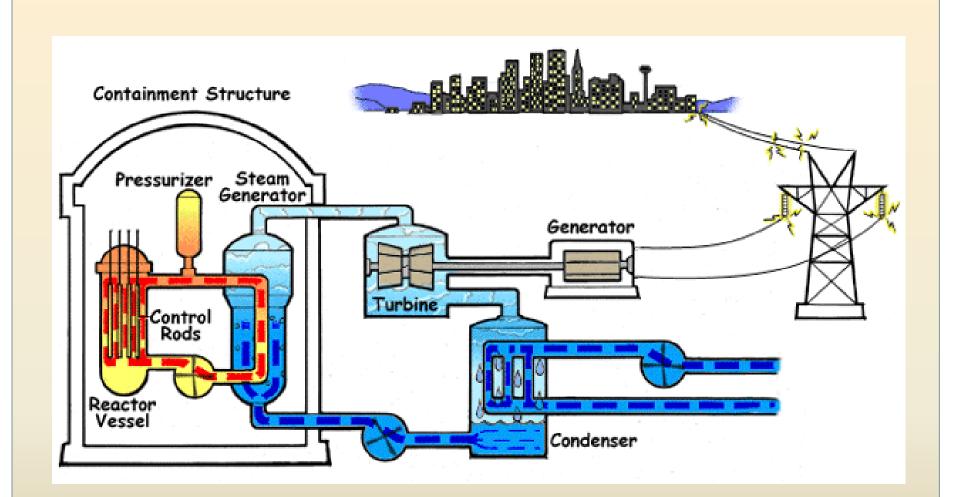
What is radioactive waste?

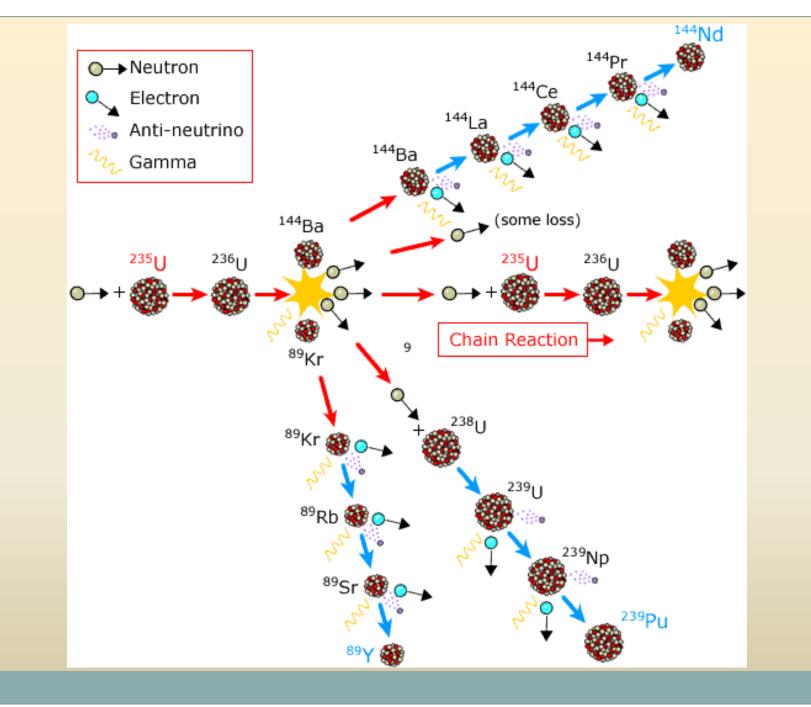
"Radioactive (or nuclear) waste is a byproduct from nuclear reactors, fuel processing plants, hospitals and research facilities. Radioactive waste is also generated while decommissioning and dismantling nuclear reactors and other nuclear facilities." -- NRC

Nuclear Fuel Pellet and Fuel Rod Assembly Commercial Nuclear Power Reactor



Source: Nuclear Energy Institute. | GAO-15-141





IODINE-131

TRITIUM

STRONTIUM-90

CESIUM-137

PLUTONIUM-239

1/2 life: 8 days

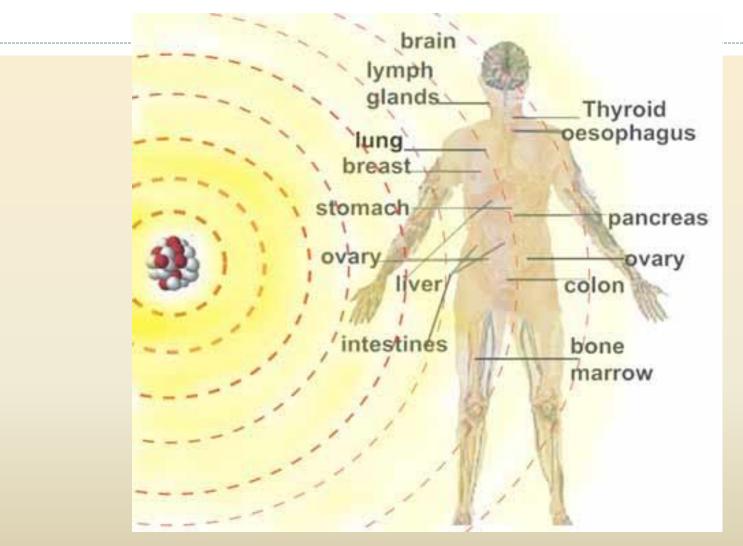
1/2 life: 23 years

1/2 life: 29 years

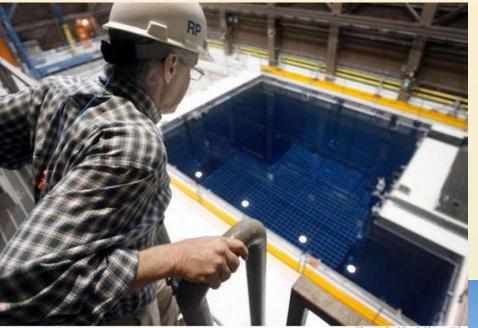
1/2 life: 30 years

1/2 life: 24,000 years

What makes this waste so dangerous?



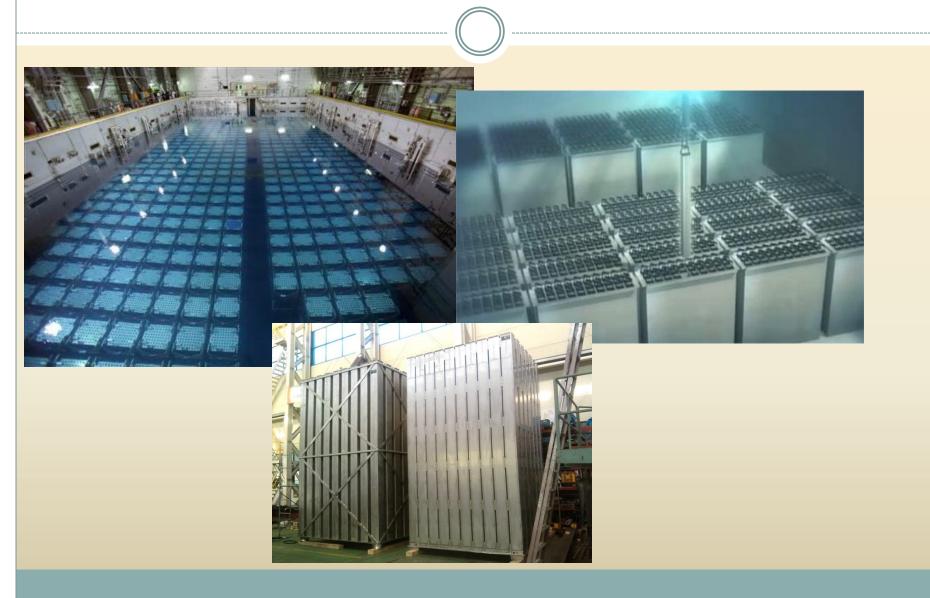
"Spent" fuel pool at Diablo Canyon

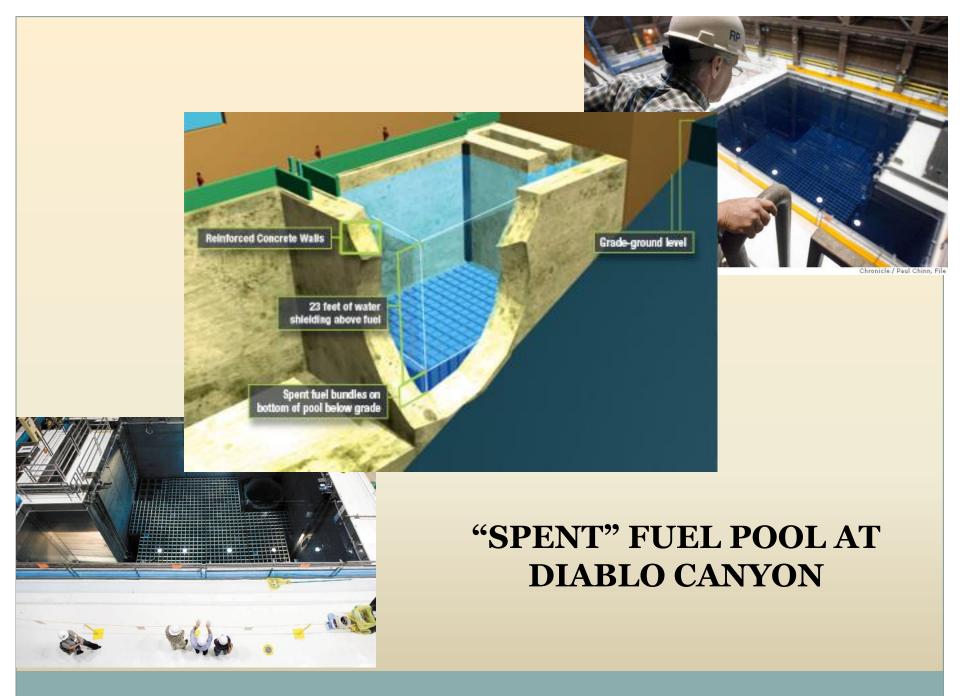




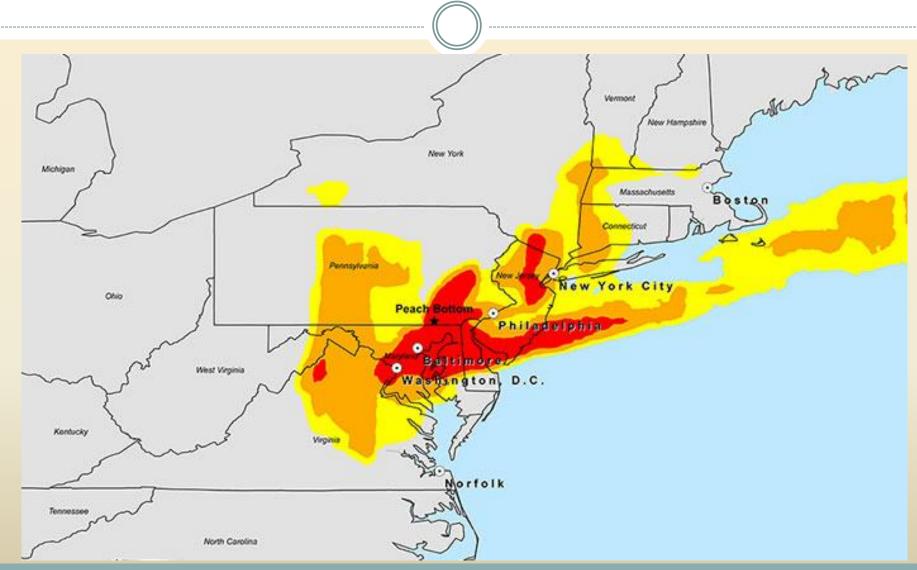


FUEL POOLS AND STORAGE RACKS





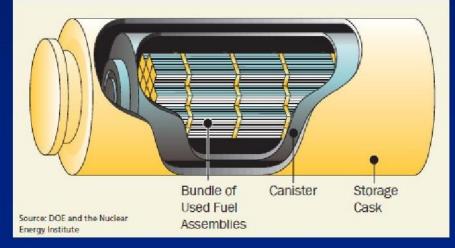
SPREAD OF RADIOACTIVITY FROM A HYPOTHETICAL FIRE



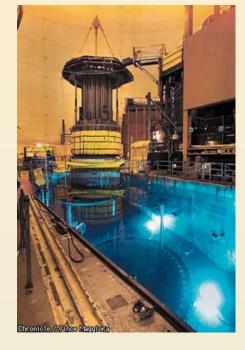


Current practice is to move fuel to dry storage when reactor storage pools become filled.



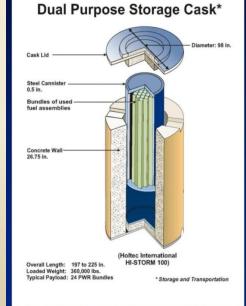


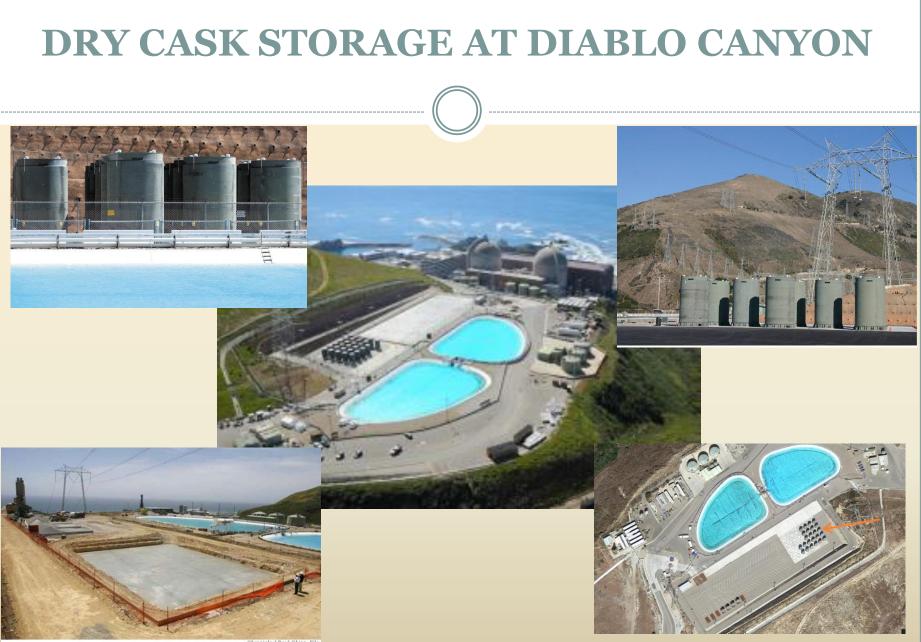
TRANSFER OF SPENT FUEL FROM POOL TO DRY CASK STORAGE









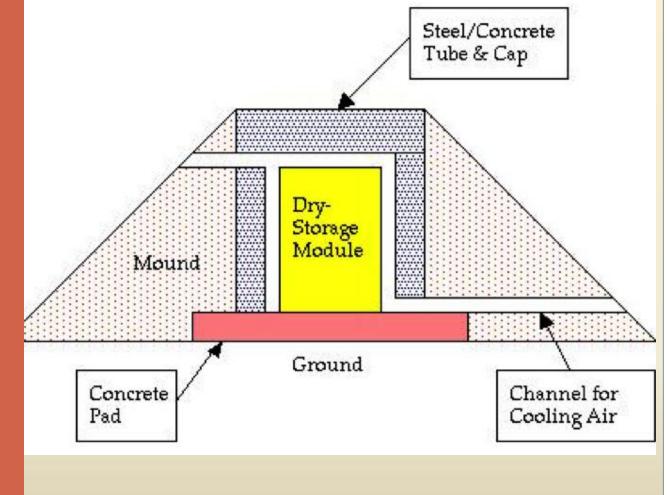


Chronicle / Paul Chinn, File

DRY CASK STORAGE AT SAN ONOFRE



HOSS – HARDENED ON-SITE STORAGE

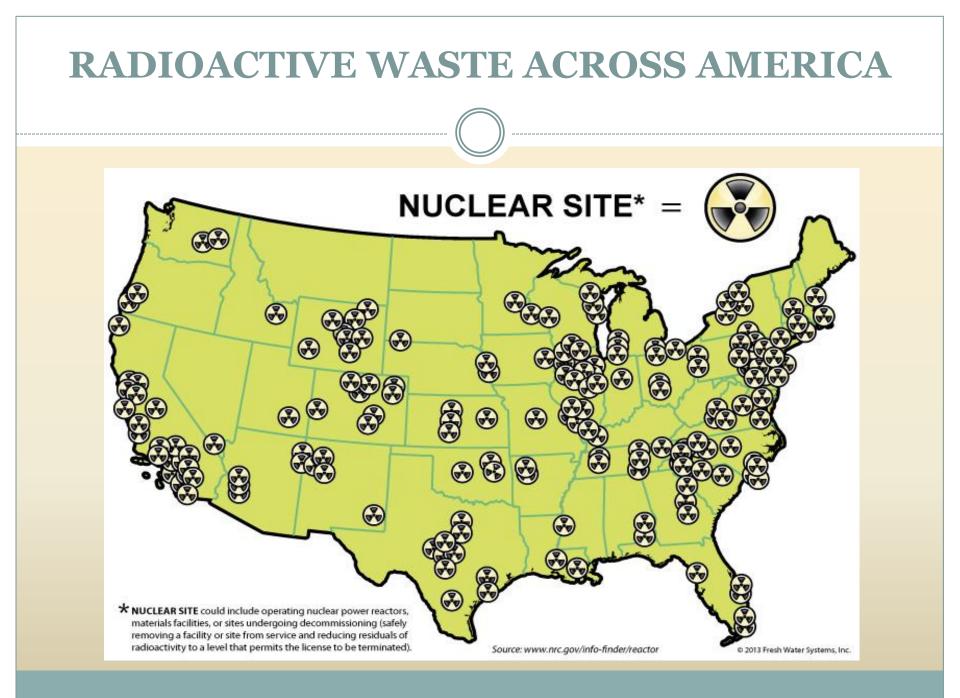




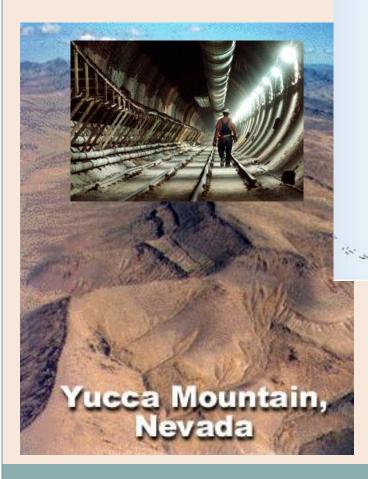


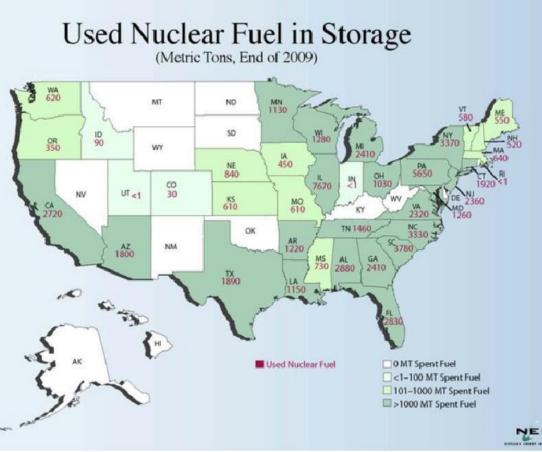
Transport and storage casks in the interim storage facility of Gorleben

Photo: GNS



WHERE WILL THE WASTE GO?





IS THERE A FINAL ANSWER?

