

Kulintjaku nuclear-tjara.

Nyakula nintiringanyi. *Discover.*

Wangkara kulintjaku. *Discuss.*

Palyanmananyi munu tjinguru kuranmananyi. *Decide.*

What is a Geological Disposal Facility?

The nuclear fuel, after it makes electricity, is taken out of the nuclear reactor.

Panya nuclear fuel-pa, palulanguru electricity palyara, nyanga palunya nuclear reactor mantjilku.

The nuclear fuel is hot and releasing ionising radiation.

Panya nuclear fuel waruringkunya munu ionising radiation wantiriyalku.

It is called "used nuclear fuel". It is also called "high level radioactive waste".

Nyanga palunya wangkanyi ini "used nuclear fuel". Munu kulu wangkanyi ini "high level radioactive waste".

The used nuclear fuel is cooled in water.

Panya used nuclear fuel mina unngu wariringku.

After around 10 years, the used nuclear fuel has cooled and is put into strong steel and concrete containers (called dry casks or transport casks).

Ngula 10 year-nguru, panya used nuclear fuel wariringkuku munuya tjunkuku piti tjumintangka kumpangka (ininu dry casks tjinguru transport casks-pa).

If the used nuclear fuel comes to South Australia, for geological disposal, a ship brings it. The ship is built only to move high level radioactive waste.

Tjinguru panya used nuclear fuel pitjaku South Australialakutu, tjunutjunktjaku manta unngu, boata pulkangku katiku.

Panya boataya palyanu nyanga high level radioactive waste kutju katinytjikitjangku.

The used nuclear fuel comes to the coast of South Australia.

Panya used nuclear fuel pa pitjaku urungka itingka South Australialakutu.

A truck moves the used nuclear fuel to a place where it is stored temporarily. This is called the interim storage facility.

Katarangku katiku used nuclear fuel pa munu tjunkuku unytjungkku nyara palula. Nyanga palumpa ini interim storage facility.

The used nuclear fuel is moved by a train to the final disposal facility.

Panya used nuclear fuel pa trainangku katiku nyara final disposal facility.

At the final disposal facility, the used nuclear fuel is placed inside more containers, and goes deep underground, forever.

Panya ngularingkulaya manta unngu tjunutjunktjaku, panya used nuclear fuel-pa unngu piti kumpangka, munu manta unngu tjunutjunktjaku, titutjaraku.

If you stand on top of a Final Disposal Facility for one year, you get the same radiation as eating part of a banana.

Tjinguru nyuntu year kutjunga paltjura ngaraku katu nyanga ngularingkulaya used nuclear fuel pa manta unngu tjunutjunktjaku, ngurun mantjilku panya purunypa radiation-paya panyaya banana nguwanpa ngalkupai.



Potential life cycle of used fuel from a nuclear reactor into a geological disposal facility in South Australia.



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**KNOW
NUCLEAR**
Discover. Discuss. Decide.