RADFACTS about Irradiated Fuel Bays

Pools are inspected regularly,

under the supervision of unuer une autrei viai vir un Canadian Nuclear Safety

commission specialists.

After being removed from the reactors, irradiated fuel bundles are stored for 7 to 10 years in in-ground pools of water, which provide cooling and shielding, until it is safe to move them to dry storage.

Used nuclear fuel produces several types of ionizing radiation, some of which can easily penetrate matter. Therefore, the fuel needs to be shielded.

Water is an excellent shielding agent because it is relatively dense (1g/mL) and uniform. Water also acts as a good cooling agent.

One metre of water decreases the dose to a worker by a factor of 100,000.



Three metres of water decreases the dose by a factor of 10 trillion.



5 m deep

6 m deep

7 m deep

Canada's Nuclear Regulator



Canadian Nuclear Safety Commission

Commission canadienne de sûreté nucléaire

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