

Title (en)
LAND DISPOSAL SITE FOR THE DISPOSAL OF NUCLEAR WASTE

Publication
EP 0167403 B1 19900509 (EN)

Application
EP 85304786 A 19850704

Priority
US 62797784 A 19840705

Abstract (en)
[origin: EP0167403A2] A land disposal site for the disposal of nuclear waste material which generally comprises a trench, a non-rigid, water-shedding cap formed from alluvium and silt which overlies this depression, and a solid array of waste-containing modules disposed in the trench for both encapsulating the waste and for supporting the non-rigid cap over the depression. The floor of the trench preferably includes a capillary barrier formed from a layer of gravel so that ground water will not seep up into the modules buried within the disposal site. The top surfaces of the modules are covered with a sloped layer of alluvium, which in turn is covered with another capillary barrier of gravel. This capillary barrier of gravel carries a sloped layer of silt which sheds running surface water and directs it into a pair of drains disposed on either side of the trench. The silt layer is capped with a final layer of graded rip-rap which protects it from wind and water erosion, and which forms a natural radiation and intrusion barrier. Finally, the modules disposed within the disposal site are preferably uniformly shaped, hexagonal prisms which are capable of being solidly packed into a structure which is flexibly conformable with any changes in shape of the trench brought about by seismic or other natural disturbances.

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G21F 9/34

IPC 8 full level
G21F 9/36 (2006.01); **G21F 9/00** (2006.01); **G21F 9/34** (2006.01)

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