

DBHD = Deep Big Hole Disposal = Tiefe Gross Bohrungs Endlagerung

Patent-Drawing "DBHD Nuclear Repository" by Dipl.-Ing. Volker Goebel

Supplemented by the **OPTION : 180 MW el. Power !!! with NuScale SMR**

Exampel Dimensions : **DBHD 1.4.2 SMR**



SBM Drill 12 m

Biosphere

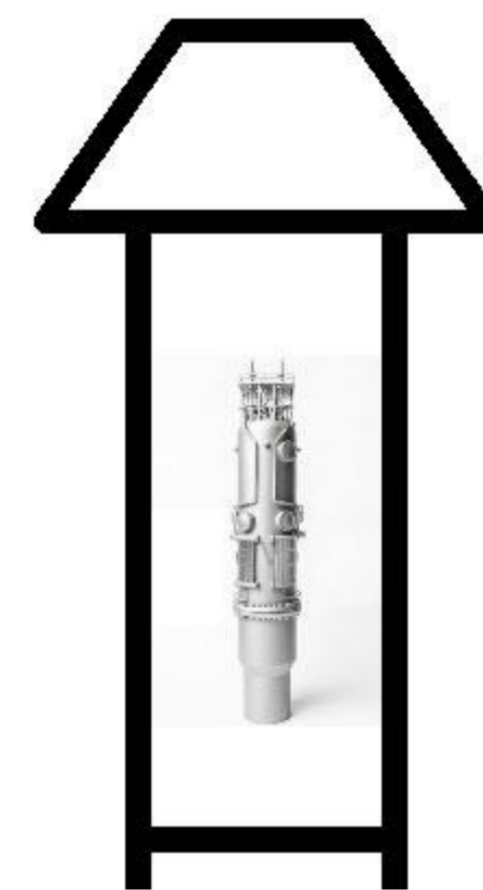
+ 50 m

Groundwater / Casing

Sediments

DBHD access shaft
outer Diam. = 12 m.

Open for Transport
Later empty column
Then Closure



DBHD with SMR
by NuScale Option

Closure

Depth > Temperature and
Load-Weight (Mountain-)Pressure
> Viscosity within the Rocksalt >
Closure -Height 340 meters
Duration 80 Years after closing

**Closure Nuclear
Repository GDF**

**NuScale 60 MW el
3x Small Modular
Nuclear Reactors
within 150 Meters**

**SMR Power Plant
180 MW el Power
as "only" an Option !**

**HLW Storage
area D = 20 m**

Storage

HLW- Containers
in concrete pellets

Height 613 meters

Containers in
Concrete-Pellets

Expansion
joint > sand

Containers in
Concrete-Pellets

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Containers in
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Expansion
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Rocksalt

Fissured rock

Volcanic crust