Engineering-geological criteria depth/temperature for HLW repository The view

"Compressed" scale 1:10 - real bore diameter - but the depth is divided by 10

of the

СО	ns	tr	U	C-
----	----	----	---	----

Rocksalt	Claystone	Solid	Rock	Geothermal Deep-Step in North-German Basin app. + 3,3 °C / 100 m depth	tion
underground water-tables Sedi- ments The sediment overlay of 1.100 meters is always required th bus put sain in the mountain pressure does rocksalt again Storage Space 480 HLW Containers Astorage Space 480 HLW Containers Astorage Space 480 HLW Containers Ocators Decause decay heat - because casting of concrete has to be still possible Border-Temperature on the edge of HLW containert geology Sait Border-Temperature on the edge of HLW containert geology Sait Ast Uniform Ast Suifug-Depth : - because casting of concrete has to be still possible Border-Temperature on the edge of HLW containert geology border (vicicanic crust) Ast or 2.200 Meters 1 . Used by decay heat and geothermal temp. . L Het UK cooles down and sinks down extreme slowly to next geology border (vicicanic crust) . Mar ap. 45.00 years (FTP) the bottom of the sliphtly visicos sait geology - 7.800 m Final HLW storage achieved. Brinal HLW storage achieved. Brinal HLW storage achieved.	<section-header><text><text><text></text></text></text></section-header>	Bitumen would be viscous enough at a temperature of 150°C to seal a hole - closure height at least 1,200 m But much unknown fissures in rockstine.	Such a drill is NOT state of technology and science in 2023 Nobody can do a hole with explosive propulsion to a depth of 5,000 meters down. Would take ages and there is no ventilation technology available	- 1.000 m + 33 °C - 2.000 m + 66 °C - 3.000 m + 99 °C - 4.000 m + 132 °C - 5.000 m + 165 °C - 6.000 m + 198 °C - 7.000 m + 231 °C	planner on the technical possible options in the 3 host rock types checked for final
simplified	te depth-horizon of the hard volca salt-clay geology near Beverstedt (rature-Boundry for lead casted HL	Germany		- 8.000 m + 264 °C - 9.000 m + 297 °C	HLW

+ 300 °C Temperature-Boundry for lead casted HLW containers (but we changed to aluminium casted HLW containers anyway)

in Rocksalt	in Clay Stone	in Solid Rock	Plan-Author :	
works perfect offers :	NO safe GDF possible !!! with todays	always fissured ! was once liquid	Dipl Ing. V. Goebel	$\langle $
LONGTERM SAFETY	knowledge & technology	Only by blasting Not buildable	11 y. planning the HLW GDF	
1.100 - 7.800 m	900 meter	3.800 - 6.090 m	07.09.2022	https://www. ing-goebel.de