

RE: [EXTERNAL] >>> DBHD SHAFT 1 - 3

An Sylvia J Saltzstein <sjsaltz@sandia.gov>

Dear Ms. Saltzstein,

Thanks for your message. - Sandia Lab got a good reputation.

The "Saltzstein/Rocksalt" might not be thick and deep enough in New Mexico - but there is deep salt further to the east ...

Sandia developed the first real dry storage containers and now it is about to bring them down into geology. The required technologies exist - Find more geology data - set up a programm.

Best regards from

Volker Goebel

Dipl.-Ing. Arch.

GDF Planner ww

Saltzstein, Sylvia J <sjsaltz@sandia.gov> hat am 10.05.2021 03:05 geschrieben:

That is exciting and good to know. Thanks for your "back of the envelope" calculation!

Thank you,

Sylvia J. Saltzstein

Sylvia J. Saltzstein

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Subject: [EXTERNAL] >>> the US got enough money on account for the GDF required !

>>> The Nuclear Waste Fund had an unspent balance of \$ 44.5 billion as of the end of FY2017 -
source Wikipedia [#US](#) [#NWTRB](#)

Pre-calculation for HLW

So the US has USD 44.5 billion for repositories on the account.

The US has approximately 88,000 tons of net (Mg) heavy metal HLW

$88,000,000 \text{ kg} \times 162 \text{ USD / kg} = 14,256,000,000 \text{ USD} = 14.3 \text{ billion USD}$ disposal costs with DBHD

With DBHD GDF the US will have to spend 14.3 billion USD for the geological storage of 88,000 tons.

General conditions as always with DBHD: Plus HLW containers, plus transports, plus legal proceedings

Local boundary conditions USA: The bad Holtec Hi-Star containers can be moved horizontally and vertically?

Pre-calculation for LLW, MLW

The USA has around 3.8 million cubic meters of LLW and MLW (mostly buried under 1 m of ground)

A typical DBHD has 250,000 cubic meters of storage volume, it takes about 15 DBHDs

15 DBHD for LLW / MLW x \$ 0.74 billion = \$ 11.1 billion

Total calculation USA for LLW, MLW, HLW

HLW repository GDF = 14.3 billion USD

LLW / MLW repository GDF = 11.1 billion USD

Total = EUR 25.4 billion for all GDF USA

plus containers, plus transportation, plus legal proceedings

So it is very likely that the USA has enough money in the account for final geological storage.

Deep rocksalt is in the US south

Deep clayrock is ?

Best regards from

Volker Goebel

Dipl.-Ing. Arch.

Endlager-Fachplaner

GDF Planner ww

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- 02 DBHD 2.0.0 Schnitte - Endlager GDF - Ing_Goebel_Germany.pdf (8 MB)
 - 01 DBHD 2.0.0 Cuts - Endlager GDF - Ing_Goebel_Germany.pdf (7 MB)