



A	B	C	D	E	F	G	H	I
1		Version 0.2.2	http://www.dbhd-hlw.de + http://www.ing-goebel.de					
2	Calculation 24 x DBHD 1.4 Canada nuclear repository							
3	Last edit: 09. March 2019 / Dipl.-Ing. Volker Goebel Switzerland / Nuclear Repository Planner ww							
4	Capacity : 7.872 DSC's Canada (white 60 tons concrete Dry Storage Container with +10 tons net spent fuel)							
5	Repository-Storage-Depth in DBHD 1.4 Canada : from -1.350 Meters down to -2.100 Meters							
6	Based on : Draft-Planning from 2014 - 2019 actually in Version 1.4 with Time Table							
7								
8								
9	Type of invest	Amount	Offer / Quote	Factor	Total	Comment	dwg	
10			or hint from :					
11	Repository Plans	2014-2019 (5,25 yrs)	Ing. V. Goebel + T.	562'000 CAD	2'950'000 CAD	Draft-Plans, B-Plans	yes	
12	Probe-Drillings	48 x	Prof. Dr. M. Reich	9'750'000 CAD	468'000'000 CAD	Cores > -2.500 m		
13	24x Land Purchase	26,4 km2	from local owners		396'000'000 CAD	24 x 110.000 m2		
14	Shaft-Boring-Ma.	6 x SBM / SBR	Herrenknecht AG	90'000'000 CAD	540'000'000 CAD	2 yrs. delivery time	yes	
15	External streets	162 km	make-over		72'000'000 CAD	new / enhance		
16	E-powerconnection	24 x	local NB Power		90'000'000 CAD	10 kV med. voltage		
17	Water-connection	24 x	incl. water		108'000'000 CAD	10 bar with DN 200		
18	Internal Logistics		anticipation		180'000'000 CAD	8 building sites		
19	Drilling platforms	24 x	43.000 m3	1500 CAD/m3	1'548'000'000 CAD	floors and walls	yes	
20	Mat. storage ring	24 x	70.000 m3	1350 CAD/m3	2'268'000'000 CAD	floors and walls	yes	
21	Conveyor Belts	12 x			360'000'000 CAD	diverse types		
22	Heavy load trucks				54'000'000 CAD	Dump trucks		
23	Compensationes	60.000 Shares	direct local people	45'000 CAD	2'700'000'000 CAD	payment not bribe	yes	
24	Planning Offices	Scientific expertise	many disciplines		738'000'000 CAD	over 80 years		
25	Approval Fees		many agencies		297'000'000 CAD	to Gov. Agencies		
26	Start-Setting SBM	24 x	Thyssen Schachtbau	4'500'000 CAD	108'000'000 CAD	temp. Structures		
27	Shaft Drills D=12 m	24 x	Thyssen Schachtbau	53'000'000 CAD	1'272'000'000 CAD	autom. Maschine		
28	Spray-concr.-wall	9,3 m2 x 2.100 m	19.530 m3 x 24	900 CAD/m3	422'000'000 CAD	steel-fibre-amored	yes	
29	Shaft completion	12 sets	Siemag Tecberg	45'000'000 CAD	540'000'000 CAD	Vent., Transport		
30	Air-Conditioning	12 x	Siemag Tecberg	10'500'000 CAD	126'000'000 CAD	cold dry air IN		
31	Flow-Ice Piping	12 x	Siemag Tecberg	9'000'000 CAD	108'000'000 CAD	50 Liters / Sec.		
32	Cable-Drum-Houses	24 x	90.000 m3 S.T.	1'500 CAD	3'240'000'000 CAD	House with crane	yes	
33	Cabledrum&Motor	12 x	Siemag Tecberg	6'000'000 CAD	72'000'000 CAD	Drum-Diam.=14 m		
34	Work-Over Rigs	6 x	Steelbuilders	4'800'000 CAD	28'800'000 CAD	with return pulley	yes	
35	Dyneema Ropes	38 x	Gleistein DE	5'842'000 CAD	222'000'000 CAD	D=80 mm 2.100 m		
36	Transition Cone	24 x	concrete constr.	1'500'000 CAD	36'000'000 CAD	12 m. to 21 m.	yes	
37	Hole-opening	24 x	to Diam. = 21 m.	8'400'000 CAD	202'000'000 CAD	with chain-saws		
38	Staff 80 years	50 Man&Woman	4 h. shifts down t.		3'100'000'000 CAD	Work & Safety		
39	Rocksalt-Salt-Sale	24 x 350.000 m3	rough quality	75 CAD/m3	630'000'000 CAD	Salt many uses	K+S	
40	Concrete-Pellets	328 Pellets	4.490 m3 x 328 x 24	150 CAD/m3	5'301'792'000 CAD	Quality-Concrete	yes	
41	Sand/fine gravel	328 Layers 2m	692 m3 x 328 x 24	105 CAD/m3	571'979'520 CAD	D = max. 3 mm		
42	Magnetit powder	328 Portions	200 m3 x 328 x 24	1020 CAD/m3	1'605'888'000 CAD	Rio Tinto, Billiton	yes	
43	Closure works	24 x	own Salt grain		360'000'000 CAD	Salt + M. Pressure		
44	building back	24 x			72'000'000 CAD	farmland again		
45	Unforseeables	4%			1'063'216'381 CAD	the un-expected		
46	Total	March 2019	Version 22		27'643'625'901 CAD			
47								
48								
49	plus street - ship - street transports, plus law cases					27,7 Bio. CAD		
50								
51								
52								