

Site (Data) : Richard

Stock of waste as at December 2007

Country: CZECH REPUBLIC

Reporting Year: 2007

Site Name: Richard

Full Name: URAO Richard

Inventory Reporting Date: December 2007

Waste Matrix Used: cz-eu

Comment # 380: Information

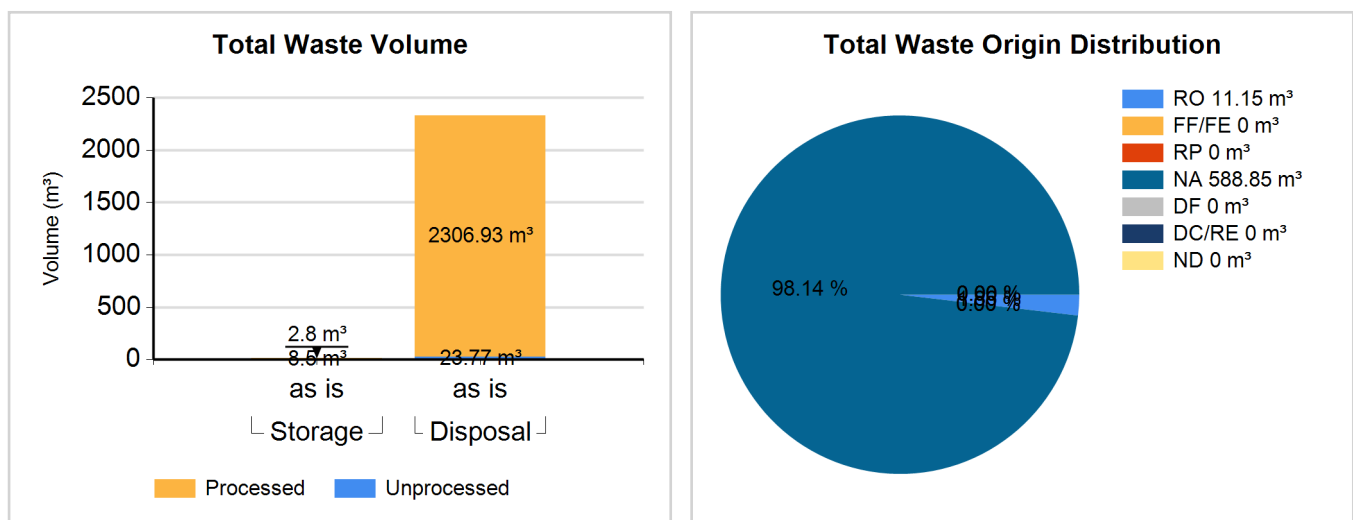
Abandoned mine Richard (60 km N of Prague) serves as repository for radioactive waste from research, industry and medicine.

Comment # 14555: Site Richard

In 2006 and 2007 disposal chambers 8/2, 9 a 12 were upgraded (hydraulic cage) and filled with waste. New concrete floor was laid down in chambers 13 and 22 and these chambers will be used for the disposal of waste.

Waste Inventory

Est=distribution is an estimate, Proc.=Is the waste processed (Yes/No)? RO=Reactor Operations, FF/FE=Fuel Fabrication/Fuel Enrichment, RP=Reprocessing, NA=Nuclear Applications,DF=Defence, DC/RE=Decommissioning/Remediation, ND=Not Determined



Note: where volume "as dispo" is provided, volume "as is" is used in the graph instead.

Waste Class: LILW-SL

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LILW-SL	Storage	N	N	4.600	4.600	0.00	0.00	0.00	100.00	0.00	0.00	0.00
LILW-SL	Storage	Y	N	0.800	0.800	0.00	0.00	0.00	100.00	0.00	0.00	0.00
LILW-SL	Disposal	N	N	23.770	23.770	0.00	0.00	0.00	100.00	0.00	0.00	0.00
LILW-SL	Disposal	Y	N	2306.930	2306.930	0.00	0.00	0.00	100.00	0.00	0.00	0.00

Waste Class: LILW-LL

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LILW-LL	Storage	N	N	3.900	3.900	11.15	0.00	0.00	88.85	0.00	0.00	0.00
LILW-LL	Storage	Y	N	2.000	2.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00

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Spent Sources <=30 years in Storage

Nuclide	Number of Sources/Total Activity of Sources (GBq)			c o n d	u n c o n d	c a t	Total Activity for all Groups (GBq)	Decay Date
	Group I less than or equal 4GBq	Group II more than 4GBq but less than or equal 4E+4GBq	Group III more than 4E+4GBq					
	num/activity	num/activity	num/activity					
Cf-252	1			Y	N	N	1.500E-003	2007.12
	1.500E-003							
Co-60		53		Y	N	N	2.600E+005	2007.12
		2.600E+005						
Cs-137	22	13	3	Y	N	N	4.500E+005	2007.12
	1.400E+001	2.300E+005	2.200E+005					
Eu-152			1	Y	N	N	5.300E+004	2007.12
			5.300E+004					
Pm-147	1			Y	N	N	6.100E-005	2007.12
	6.100E-005							

Spent Sources <=30 years in Disposition

Nuclide	Number of Sources/Total Activity of Sources (GBq)			c o n d	u n c o n d	c a t	Total Activity for all Groups (GBq)	Decay Date
	Group I less than or equal 4GBq	Group II more than 4GBq but less than or equal 4E+4GBq	Group III more than 4E+4GBq					
	num/activity	num/activity	num/activity					
Ba-133	7			Y	N	N	1.600E-004	2007.12
	1.600E-004							
Cd-109	14			Y	N	N	2.300E+000	2007.12
	2.300E+000							
Ce-144	2			Y	N	N	1.300E-004	2007.12
	1.300E-004							
Ce-144				Y	N	N	0.000E+000	2007.12
Cf-252	15	1		Y	N	N	6.660E+000	2007.12
	3.600E-001	6.300E+000						

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Co-57	15			Y	N	N	1.700E-004	2007.12
	1.700E-004							
Co-60	1313	181		Y	N	N	3.303E+005	2007.12
	2.600E+002	3.300E+005						
Cs-134	1			Y	N	N	1.100E-004	2007.12
	1.100E-004							
Cs-137	396	177		Y	N	N	3.402E+005	2007.12
	2.300E+002	3.400E+005						
Eu-152	36	6		Y	N	N	1.850E+002	2007.12
	1.500E+001	1.700E+002						
Fe-55	40	6		Y	N	N	1.530E+002	2007.12
	1.300E+001	1.400E+002						
H-3	3	7		Y	N	N	3.701E+003	2007.12
	8.400E-001	3.700E+003						
Kr-85	79	34		Y	N	N	1.310E+003	2007.12
	1.100E+002	1.200E+003						
Mn-54	1			Y	N	N	4.200E-008	2007.12
	4.200E-008							
Na-22	2			Y	N	N	6.100E-006	2007.12
	6.100E-006							
Pb-210	1			Y	N	N	1.000E-004	2007.12
	1.000E-004							
Pm-147	35			Y	N	N	6.000E+001	2007.12
	6.000E+001							
Ru-106	3			Y	N	N	1.600E-003	2007.12
	1.600E-003							
Se-75	16			Y	N	N	1.400E-002	2007.12
	1.400E-002							
Sr-89				Y	N	N	0.000E+000	2006.12

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Sr-90	282	31		Y	N	N	2.660E+003	2007.12
	1.600E+002	2.500E+003						
TI-204	4			Y	N	N	5.700E-002	2007.12
	5.700E-002							
Tm-170				Y	N	N	0.000E+000	2007.12
Y-88				Y	N	N	0.000E+000	2006.12
Zn-65	1			Y	N	N	9.100E-005	2007.12
	9.100E-005							

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Spent Sources > 30 years in Storage

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	Group I less than or equal 2 GBq	Group II more than 2GBq					
	num/activity	num/activity					
Am-241	194	58	Y	N	N	4.536E+003	2007.12
	3.600E+001	4.500E+003					
C-14			Y	N	N	0.000E+000	
K-40			Y	N	N	0.000E+000	
Ni-63			Y	N	N	0.000E+000	
Pu-238	4	2	Y	N	N	1.125E+002	2007.12
	2.500E+000	1.100E+002					
Pu-239	1	40	Y	N	N	2.901E+003	2007.12
	1.100E+000	2.900E+003					
Ra-226	1		Y	N	N	3.700E-001	2007.12
	3.700E-001						
U-238			Y	N	N	0.000E+000	

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	Group I less than or equal 2 GBq	Group II more than 2GBq					
	num/activity	num/activity					
Am-241	127	66	Y	N	N	7.468E+003	2007.12
	6.800E+001	7.400E+003					
C-14	13	2	Y	N	N	1.430E+001	2007.12
	3.300E+000	1.100E+001					
K-40	2		Y	N	N	6.900E-007	2007.12
	6.900E-007						
Ni-63	1		Y	N	N	3.200E-001	2007.12
	3.200E-001						
Pu-239	17	25	Y	N	N	1.206E+003	2007.12
	6.200E+000	1.200E+003					