

Site (Data) : Richard

Stock of waste as at December 2008

Country: CZECH REPUBLIC

Reporting Year: 2008

Site Name: Richard

Full Name: URAO Richard

Inventory Reporting Date: December 2008

Waste Matrix Used: cz-eu

Comment # 380: Information

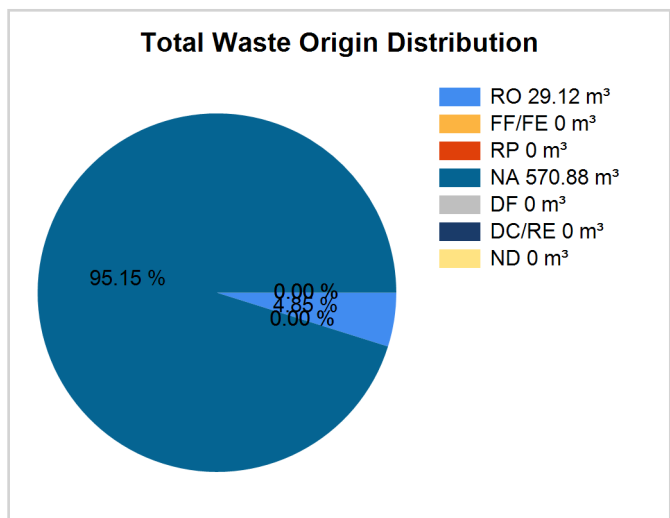
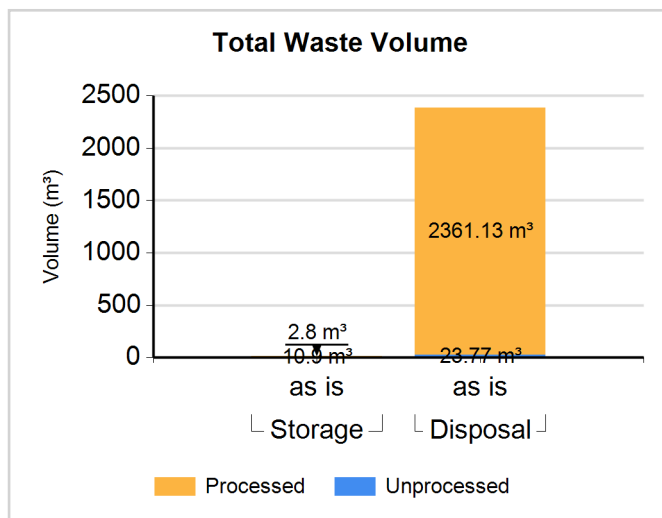
Abandoned mine Richard (60 km N of Prague) serves as repository for radioactive waste from research, industry and medicine.

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	2361.130	2361.130	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	6.300	6.300	29.12	0.00	0.00	70.88	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 m ore than 4GBq but less than or equal 4E+4GBq	Group III more than 4E+4GBq					
	num/activity	num/activity	num/activity					
Cf-252	7			Y	N	N	7.100E-003	2008.12
	7.100E-003							
Co-60		53		Y	N	N	2.200E+005	2008.12
		2.200E+005						
Cs-137	22	13	3	Y	N	N	4.300E+005	2008.12
	1.400E+001	2.200E+005	2.100E+005					
Eu-152			1	Y	N	N	5.000E+004	2008.12
			5.000E+004					
Pm-147	1			Y	N	N	4.700E-006	2008.12
	4.700E-006							

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 m ore 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	1.500E-004	2008.12
	1.500E-004							
Cd-109	15			Y	N	N	1.400E+000	2008.12
	1.400E+000							
Ce-144	2			Y	N	N	5.300E-005	2008.12
	5.300E-005							
Ce-144				Y	N	N	0.000E+000	2008.12
Cf-252	20	1		Y	N	N	5.180E+000	2008.12
	2.800E-001	4.900E+000						

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Co-57	22			Y	N	N	1.400E-001	2008.12
	1.400E-001							
Co-60	1373	202		Y	N	N	2.903E+005	2008.12
	2.500E+002	2.900E+005						
Cs-134	1			Y	N	N	7.500E-005	2008.12
	7.500E-005							
Cs-137	542	186		Y	N	N	3.303E+005	2008.12
	2.900E+002	3.300E+005						
Eu-152	36	6		Y	N	N	1.740E+002	2008.12
	1.400E+001	1.600E+002						
Fe-55	40	6		Y	N	N	1.196E+002	2008.12
	9.600E+000	1.100E+002						
H-3	3	7		Y	N	N	3.501E+003	2008.12
	7.900E-001	3.500E+003						
Kr-85	79	34		Y	N	N	1.210E+003	2008.12
	1.100E+002	1.100E+003						
Mn-54	1			Y	N	N	1.900E-008	2008.12
	1.900E-008							
Na-22	2			Y	N	N	4.700E-006	2008.12
	4.700E-006							
Pb-210	1			Y	N	N	9.900E-005	2008.12
	9.900E-005							
Pm-147	35			Y	N	N	6.000E+001	2008.12
	6.000E+001							
Ru-106	4			Y	N	N	4.000E-003	2008.12
	4.000E-003							
Se-75	16			Y	N	N	2.000E-004	2008.12
	2.000E-004							
Sr-89				Y	N	N	0.000E+000	2008.12

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Sr-90	296	31		Y	N	N	2.560E+003	2008.12
	1.600E+002	2.400E+003						
TI-204	4			Y	N	N	4.700E-002	2008.12
	4.700E-002							
Tm-170				Y	N	N	0.000E+000	2008.12
Y-88				Y	N	N	0.000E+000	2008.12
Zn-65	1			Y	N	N	3.200E-005	2008.12
	3.200E-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	241	122	Y	N	N	6.030E+003	2008.12
	1.300E+002	5.900E+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	9	2	Y	N	N	1.154E+002	2008.12
	5.400E+000	1.100E+002					
Pu-239	1	71	Y	N	N	6.801E+003	2008.12
	1.100E+000	6.800E+003					
Ra-226	1		Y	N	N	3.700E-001	2008.12
	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	2008.12
	6.800E+001	7.400E+003					
C-14	13	2	Y	N	N	1.430E+001	2008.12
	3.300E+000	1.100E+001					
K-40	2		Y	N	N	6.900E-007	2008.12
	6.900E-007						
Ni-63	1		Y	N	N	3.200E-001	2008.12
	3.200E-001						
Pu-239	17	25	Y	N	N	1.206E+003	2008.12
	6.200E+000	1.200E+003					