

## Site (Data) : Richard

Stock of waste as at December 2006

Country: CZECH REPUBLIC

Reporting Year: 2006

**Site Name:** Richard

Full Name: URAO Richard

Inventory Reporting Date: December 2006

Waste Matrix Used: cz-eu

Comment # 380: Information

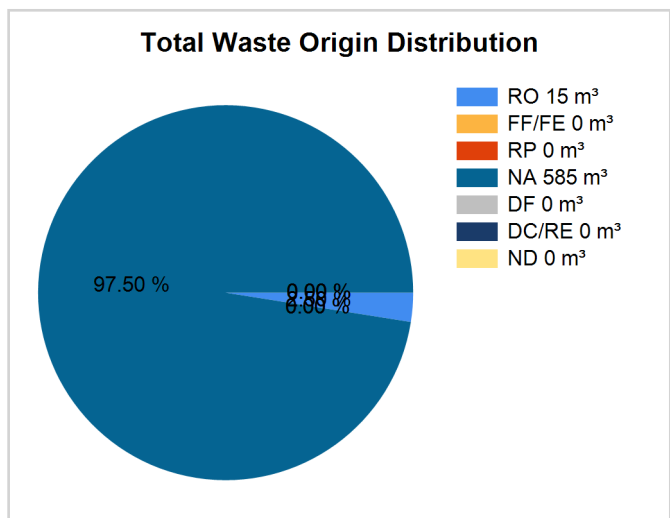
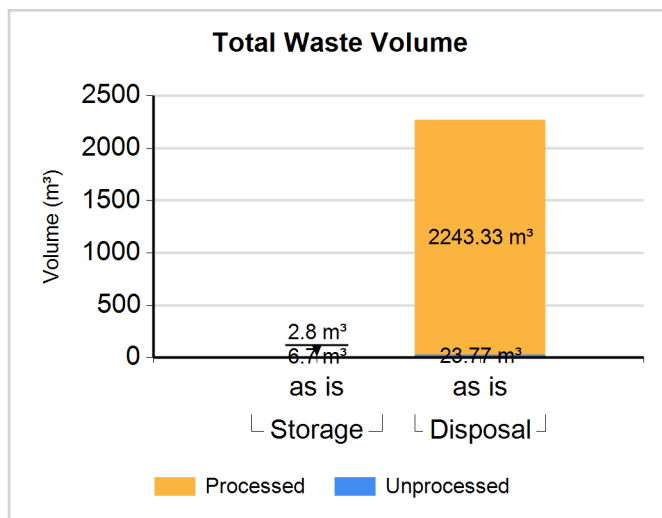
Abandoned mine Richard ( 60 km N of Prague) serves as repository for radioactive waste from research, industry and medicine.

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	Y	3.800	3.800	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	Y	23.770	23.770	0.00	0.00	0.00	100.00	0.00	0.00	0.00
LILW-SL	Disposal	Y	Y	2243.330	2243.330	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	Y	2.900	2.900	15.00	0.00	0.00	85.00	0.00	0.00	0.00
LILW-LL	Storage	Y	Y	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	1			Y	N	N	2.000E-003	2006.12
	2.000E-003							
Co-60		53		Y	N	N	2.924E+005	2006.12
		2.924E+005						
Cs-137	22	13		Y	N	N	2.330E+005	2006.12
	1.414E+001	2.330E+005						
Eu-152			1	Y	N	N	5.567E+004	2006.12
			5.567E+004					
Pm-147	1			Y	N	N	7.902E-005	2006.12
	7.902E-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 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	1.657E-004	2006.12
	1.657E-004							
Cd-109	14			Y	N	N	3.959E+000	2006.12
	3.959E+000							
Ce-144	2			Y	N	N	3.131E-004	2006.12
	3.131E-004							
Ce-144				Y	N	N	0.000E+000	2006.12
Cf-252	15	1		Y	N	N	8.696E+000	2006.12
	4.619E-001	8.234E+000						

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Co-57	15			Y	N	N	4.222E-004	2006.12
	4.222E-004							
Co-60	1034	136		Y	N	N	3.777E+005	2006.12
	2.250E+002	3.775E+005						
Cs-134	1			Y	N	N	1.471E-004	2006.12
	1.471E-004							
Cs-137	188	150		Y	N	N	3.457E+005	2006.12
	9.515E+001	3.456E+005						
Eu-152	36	6		Y	N	N	1.985E+002	2006.12
	1.585E+001	1.826E+002						
Fe-55	39	6		Y	N	N	1.986E+002	2006.12
	1.603E+001	1.826E+002						
H-3	3	7		Y	N	N	3.909E+003	2006.12
	8.864E-001	3.908E+003						
Kr-85	79	33		Y	N	N	1.400E+003	2006.12
	1.218E+002	1.278E+003						
Mn-54	1			Y	N	N	9.500E-008	2006.12
	9.500E-008							
Na-22	2			Y	N	N	7.900E-006	2006.12
	7.900E-006							
Pb-210	1			Y	N	N	1.053E-004	2006.12
	1.053E-004							
Pm-147	35			Y	N	N	7.819E+001	2006.12
	7.819E+001							
Ru-106	3			Y	N	N	3.133E-003	2006.12
	3.133E-003							
Se-75	16			Y	N	N	1.403E-002	2006.12
	1.403E-002							
Sr-89				Y	N	N	0.000E+000	2006.12

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Sr-90	280	31		Y	N	N	2.677E+003	2006.12
	1.578E+002	2.519E+003						
TI-204	4			Y	N	N	6.866E-002	2006.12
	6.866E-002							
Tm-170				Y	N	N	0.000E+000	2006.12
Y-88				Y	N	N	0.000E+000	2006.12
Zn-65	1			Y	N	N	2.553E-004	2006.12
	2.553E-004							

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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 2 GBq	Group II more than 2GBq					
	num/activity	num/activity					
Am-241	194	55	Y	N	N	4.438E+003	2006.12
	3.637E+001	4.402E+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	1.108E+002	2006.12
	2.461E+000	1.083E+002					
Pu-239	1	40	Y	N	N	2.938E+003	2006.12
	1.099E+000	2.937E+003					
Ra-226	1		Y	N	N	3.657E-001	2006.12
	3.657E-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	7.514E+003	2006.12
	6.776E+001	7.446E+003					
C-14	13	2	Y	N	N	1.431E+001	2006.12
	3.309E+000	1.100E+001					
K-40	2		Y	N	N	6.920E-007	2006.12
	6.920E-007						
Ni-63	1		Y	N	N	3.183E-001	2006.12
	3.183E-001						
Pu-239	17	25	Y	N	N	1.206E+003	2006.12
	6.199E+000	1.200E+003					