

Site (Data) : Richard

Stock of waste as at December 2009

Country: CZECH REPUBLIC

Reporting Year: 2009

Site Name: Richard

Full Name: URAO Richard

Inventory Reporting Date: December 2009

Waste Matrix Used: cz-eu

Comment # 380: Information

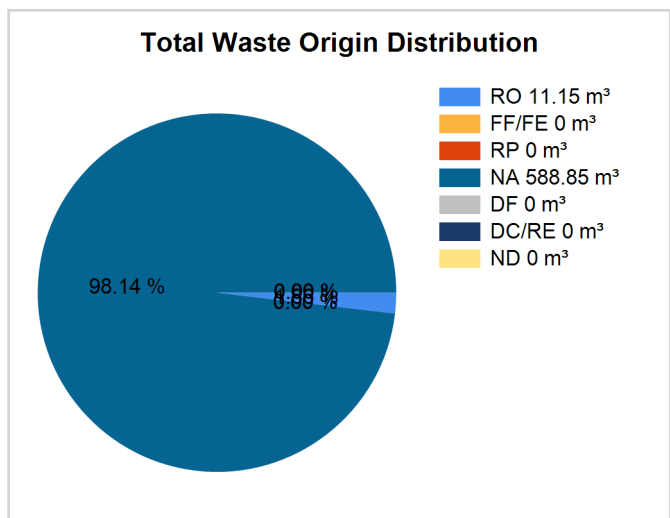
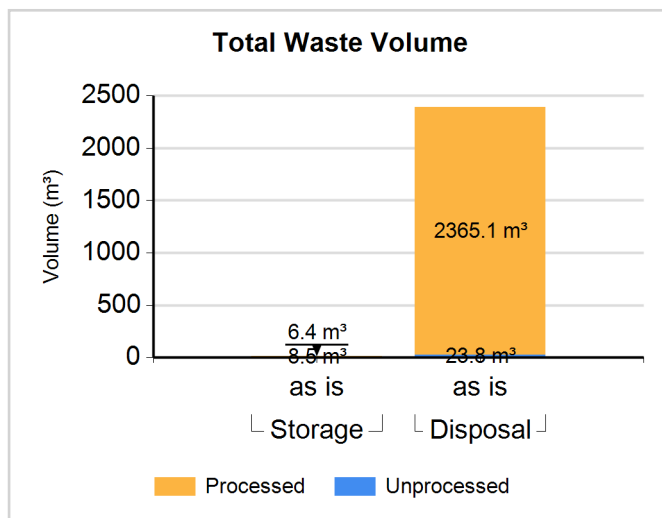
Abandoned mine Richard (60 km N of Prague) serves as repository for radioactive waste from research, industry and medicine.

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	1.200	1.200	0.00	0.00	0.00	100.00	0.00	0.00	0.00
LILW-SL	Disposal	N	N	23.800	23.800	0.00	0.00	0.00	100.00	0.00	0.00	0.00
LILW-SL	Disposal	Y	N	2365.100	2365.100	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	5.200	5.200	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	Y	0.000E+000	2009.12
	0.000E+000							
Co-60	939	53		Y	N	Y	1.929E+005	2009.12
	8.600E+000	1.929E+005						
Cs-137	28	15	3	Y	N	Y	4.509E+005	2009.12
	1.370E+001	2.457E+005	2.052E+005					
Eu-152			1	Y	N	Y	5.000E+004	2009.12
			5.000E+004					
Na-22	1			Y	N	Y	0.000E+000	
	0.000E+000							
Pm-147	1			Y	N	Y	0.000E+000	2009.12
	0.000E+000							
Sr-90	3828			Y	N	Y	2.922E+002	
	2.922E+002							

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	Y	0.000E+000	2009.12
	0.000E+000							
Cd-109	15			Y	N	Y	1.400E+000	2009.12
	1.400E+000							
Ce-144	2			Y	N	Y	0.000E+000	2009.12
	0.000E+000							

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Cf-252	21	1		Y	N	Y	3.980E+000	2009.12
	3.980E+000							
Co-57	22			Y	N	Y	1.000E-001	2009.12
	1.000E-001							
Co-60	1375	202		Y	N	Y	2.545E+005	2009.12
	2.193E+002	2.543E+005						
Cs-134	1			Y	N	Y	0.000E+000	2009.12
	0.000E+000							
Cs-137	549	187		Y	N	Y	3.228E+005	2009.12
	2.864E+002	3.225E+005						
Eu-152	36	6		Y	N	Y	1.740E+002	2009.12
	1.400E+001	1.600E+002						
Fe-55	43	6		Y	N	Y	9.259E+001	2009.12
	7.480E+000	8.511E+001						
H-3	3	7		Y	N	Y	3.309E+003	2009.12
	7.400E-001	3.308E+003						
Kr-85	79	34		Y	N	Y	1.210E+003	2009.12
	1.100E+002	1.100E+003						
Mn-54	1			Y	N	Y	0.000E+000	2009.12
	0.000E+000							
Na-22	2			Y	N	Y	0.000E+000	2009.12
	0.000E+000							
Pb-210	1			Y	N	Y	0.000E+000	2009.12
	0.000E+000							
Pm-147	35			Y	N	Y	6.000E+001	2009.12
	6.000E+001							
Ru-106	4			Y	N	Y	0.000E+000	2009.12
	0.000E+000							
Se-75	16			Y	N	Y	0.000E+000	2009.12
	0.000E+000							

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Sr-90	296	31		Y	N	Y	2.560E+003	2009.12
	1.600E+002	2.400E+003						
Tl-204	4			Y	N	Y	0.000E+000	2009.12
	0.000E+000							
Zn-65	1			Y	N	Y	0.000E+000	2009.12
	0.000E+000							

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	12011	122	Y	N	Y	6.026E+003	2009.12
	1.349E+002	5.891E+003					
C-14	1		Y	N	Y	3.700E-002	2009.12
	3.700E-002						
Ni-63	3		Y	N	Y	1.348E+000	2009.12
	1.348E+000						
Pu-238	9	2	Y	N	Y	1.145E+002	2009.12
	5.400E+000	1.091E+002					
Pu-239	1	71	Y	N	Y	6.801E+003	2009.12
	1.100E+000	6.800E+003					
Ra-226	1		Y	N	Y	3.700E-001	2009.12
	3.700E-001						

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	Group I less than or equal 2 GBq	Group II more than 2GBq					
	num/activity	num/activity					
Am-241	2899	66	Y	N	Y	7.456E+003	2009.12
	6.805E+001	7.388E+003					
C-14	13	2	Y	N	Y	1.430E+001	2009.12
	3.300E+000	1.100E+001					
K-40	2		Y	N	Y	0.000E+000	2009.12
	0.000E+000						
Ni-63	1		Y	N	Y	3.000E-001	2009.12
	3.000E-001						
Pu-239	17	25	Y	N	Y	1.206E+003	2009.12
	6.200E+000	1.200E+003					

RadioNuclide Inventory in Disposal

No data available.