

Site (Data) : Bratrstvi

Stock of waste as at December 2011

Country: CZECH REPUBLIC

Reporting Year: 2011

Site Name: Bratrstvi

Full Name: URAO Bratrstvi

Inventory Reporting Date: December 2011

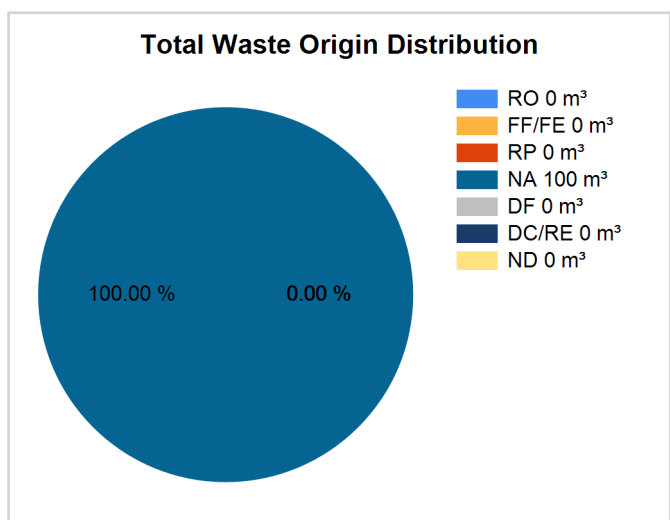
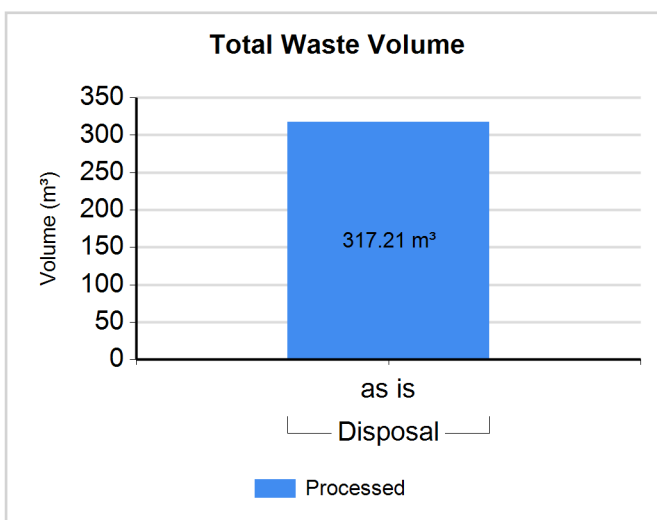
Waste Matrix Used: cz-eu

Comment # 388: Information

The Bratrstvi facility was built in an abandoned uranium mine near Jachymov (Joachimsthal). It is used for waste containing natural radionuclides (Ra-226, Pb-210, Uranium and Thorium isotopes).

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-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	Disposal	Y	N	317.210	317.210	0.00	0.00	0.00	100.00	0.00	0.00	0.00

Comment # 9782: Disposal facilities/Class LILW-LL/Site Bratrstvi

The volume of disposed RAW has been updated based on the recent historical data analysis. The RAW volume reported in 2003 has been derived in the safety case using conservative assumptions (all packages with 200 l volume). The historical data survey in 2005 showed, that about 50 % of used packages have volume of 100 l.

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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					
Pb-210	7			Y	N	Y	7.000E-001	2010.12
	7.000E-001							

Comment # 25755: Ra-226 sources

As NEWMDB does not include in the list of nuclides Ra-226 these sources are reported separately. At the end of 2011 193 Ra-226 sources of cat. I, with total activity of 56,54 GBq and one source of cat. II, with activity of 7,268 GBq were disposed in the facility.

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 2 GBq	Group II more than 2GBq					
	num/activity	num/activity					
Ra-226	193	2	Y	N	Y	7.414E+001	2011.12
	5.654E+001	1.760E+001					

RadioNuclide Inventory in Disposal

Total Alpha Activity (GBq):	1836
Total Beta/Gamma Activity (GBq):	1798.6

RadioNuclide	Activity (GBq)
Radium (Ra-226)	1346
Thorium (Th-232)	0.1359
Uranium (U-238)	452.5