

Site (Data) : EDU

Stock of waste as at December 2011

Country: CZECH REPUBLIC

Reporting Year: 2011

Site Name: EDU

Full Name: JE Dukovany

Inventory Reporting Date: December 2011

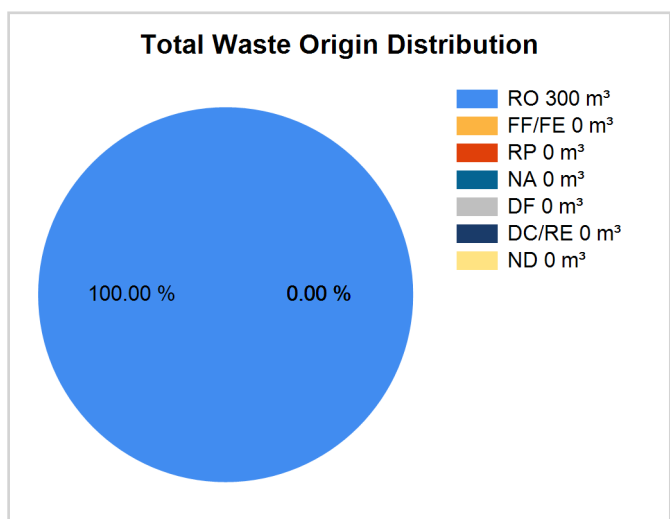
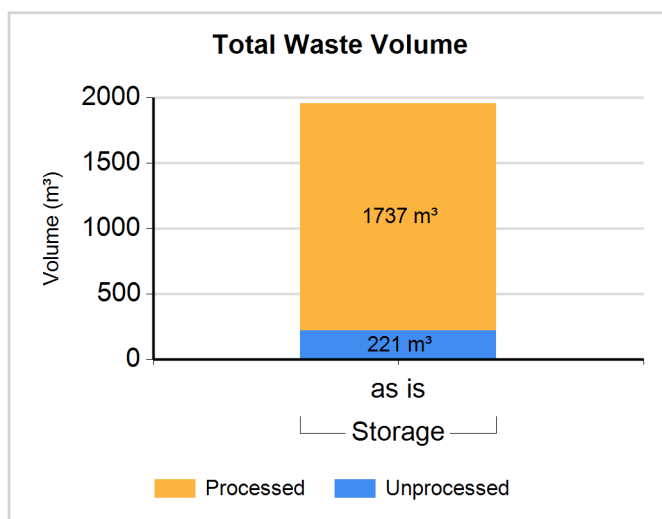
Waste Matrix Used: cz-eu

Comment # 391: NPP Dukovany

4 PWR of VVER-440-V213 type are installed. Total electrical output is 1760 MW. Physical startup of the 1 unit was in february 1985. Full commercial operation of all units started in January 1988. NPP is situated 35 km to the SW of the City of Brno.

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 (liquid)	Storage / BAPP	N	N	221.000	221.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
LILW-SL (liquid)	Storage / BAPP	Y	N	1698.000	1698.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
LILW-SL (solid)	Storage / ZRAO	Y	N	39.000	39.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Comment # 4958: The additional characteristics of the waste

Processed waste covers only radioactive concentrates and unprocessed waste only ion exchange resins. Additionally 502,4 t of solid waste was stored in NPP Dukovany in 2006, 506,7 t in 2007, 351 t in 2008, 313 t in 2009, 164 t in 2010 and 267 t in 2011.

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Processing - Treatment method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Compaction	N	N	Same	N
Evaporation	N	N	Same	N
Incineration	N	N	Increase	N
Ion Exchange	N	N	Same	N
Solvent Extraction	N	N	Increase	N

Processing - Conditioning method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Bituminization	N	N	Same	N
Polymerization	N	N	Increase	N

RadioNuclide Inventory in Storage

RadioNuclide	Activity (GBq)
Americium (Am-241)	0.588
Carbon (C-14)	16.3
Cesium (Cs-137)	971
Cobalt (Co-60)	193
Iodine (I-129)	0.127
Nickel (Ni-59)	4.75
Nickel (Ni-63)	654
Niobium (Nb-94)	0.721
Plutonium (Pu-239)	0.25
Strontium (Sr-90)	153
Technetium (Tc-99)	0.114

Comment # 25758: Origin of summary data

Radioactivity of radionuclides limited by OLC + Co-60 is calculated as a sum of radioactivity of all solid and liquid RAW stored at the premises of NPP Dukovany. The radioactivity of RAW stored at a batch storage facility ZRAO is not considered, as the storage facility is used only for a limited time period, just before the transport of conditioned RAW to disposal facility and due to the limited activity of stored RAW.