

Site (Data) : EDU

Stock of waste as at December 2013

Country: CZECH REPUBLIC

Reporting Year: 2013

Site Name: EDU

Full Name: JE Dukovany

Inventory Reporting Date: December 2013

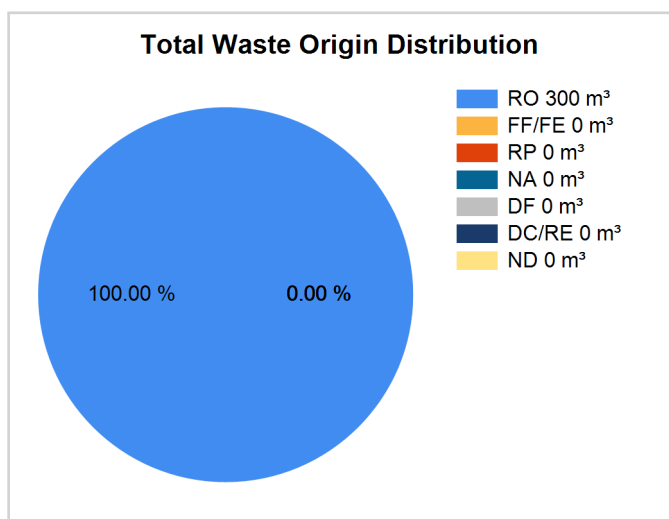
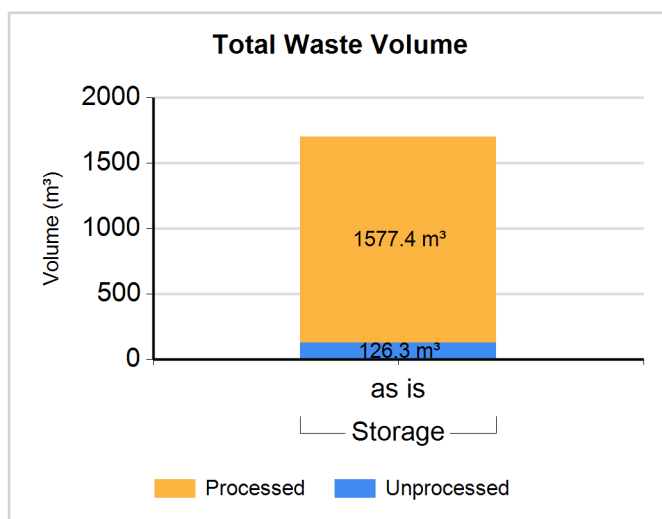
Waste Matrix Used: cz-eu

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

Data available but will not be reported.

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
Super Compaction	N	N		N

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Processing - Conditioning method(s)

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

RadioNuclide Inventory in Storage

RadioNuclide	Activity (GBq)
Americium (Am-241)	0.0082
Calcium (Ca-41)	0.0121
Carbon (C-14)	6.67
Cesium (Cs-137)	141
Cobalt (Co-60)	14.7
Iodine (I-129)	0.22
Nickel (Ni-59)	0.593
Nickel (Ni-63)	39.2
Niobium (Nb-94)	0.0575
Plutonium (Pu-239)	0.0027
Strontium (Sr-90)	5.19
Technetium (Tc-99)	0.086

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.