

Site (Data) : Dukovany

Stock of waste as at December 2013

Country: CZECH REPUBLIC

Reporting Year: 2013

Site Name: Dukovany

Full Name: URAO Dukovany

Inventory Reporting Date: December 2013

Waste Matrix Used: cz-eu

Comment # 381: Information

The Dukovany repository (URAO) serves for radioactive waste from operation of Czech NPP. It does not accept waste from research, industry and medicine or spent sealed sources. The accepted waste corresponds to the IAEA LLW-SL waste class.

Comment # 14554: Site Dukovany

Since 2006 repository can accommodate unprocessed institutional waste and operational waste immobilised not only in bitumene, glas and cement, but also in aluminosilicate matrix.

Comment # 26992: Radionuclide Inventory

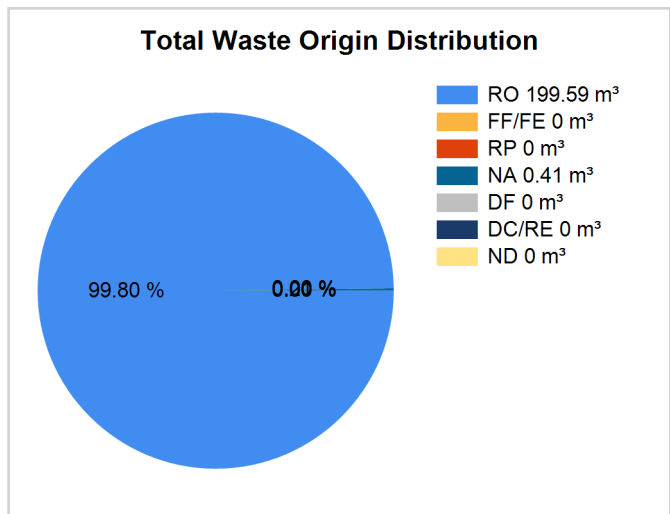
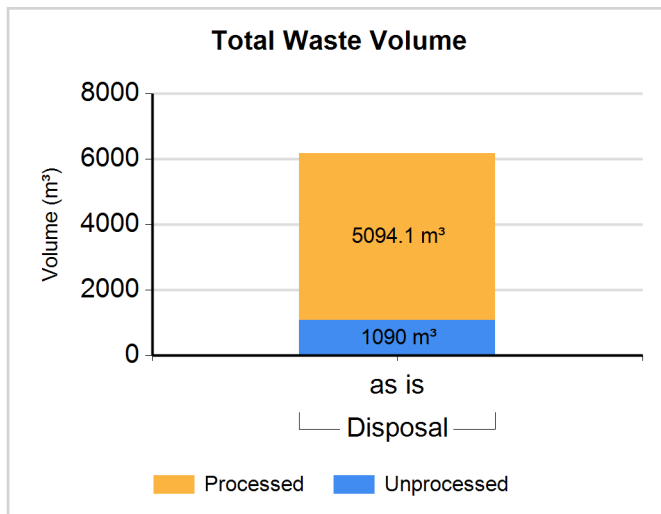
The main radionuclides in the waste are Co-60, Cs-134 and Cs-137. Transuranic radionuclides, such as Pu-238/239 and Am-241, are below 1 Bq/l. The other long lived radionuclides, such as C-14, Sr-90 and Tc-99, are in the range of 0.1 – 8 kBq/l

Comment # 26993: Institutional Framework

The Radioactive Waste Repository Authority's mission is to ensure safe disposal of existing and future radioactive waste (RAW) in the Czech Republic and to safeguard the requirements for the protection of human health and the environment from the adverse impacts of such waste. RAWRA works in active and open co-operation with the local communities and municipalities in the vicinity of which repositories are located, as well as with the general public represented by non-governmental environmental organizations, civic associations, etc. RAWRA provides the general public with objective and complete information concerning its activities and intentions.

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.

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RadioNuclide Inventory in Disposal

RadioNuclide	Activity (GBq)
Americium (Am-241)	0.568
Calcium (Ca-41)	0.315
Carbon (C-14)	181
Cesium (Cs-137)	8710
Iodine (I-129)	0.552
Nickel (Ni-59)	5.33
Nickel (Ni-63)	666
Niobium (Nb-94)	1.24
Plutonium (Pu-239)	0.126
Strontium (Sr-90)	59.3
Technetium (Tc-99)	1.39