

Site (Data) : Paldiski

Stock of waste as at December 2004

Country: ESTONIA

Reporting Year: 2004

Site Name: Paldiski

Full Name: The Former Soviet Navy Nuclear Training Centre

Inventory Reporting Date: December 2004 Waste Matrix Used: IAEA Def.

Comment # 425: unprocessed waste

unprocessed waste is metallic scrap, concrete rubble, plastic, etc. from decontamination and dismantling activities packaged into plastic bags and stored in 17 half-height ISO containers before treatment or conditioning.

Comment # 426: processed waste

processed waste consists of 221 waste packages: 205 packages with conditioned D&D waste, and 16 packages with SRS in their shielding blocks or transport containers.
Cutted pieces of 20 control rods are stored in four specific waste packages.

Attachment #172: Site

IAEA-CN-87-32.doc

Remediation and Decommissioning of Radioactive Waste Facilities in Estonia.
Paper presented in Malta conference, November 2001

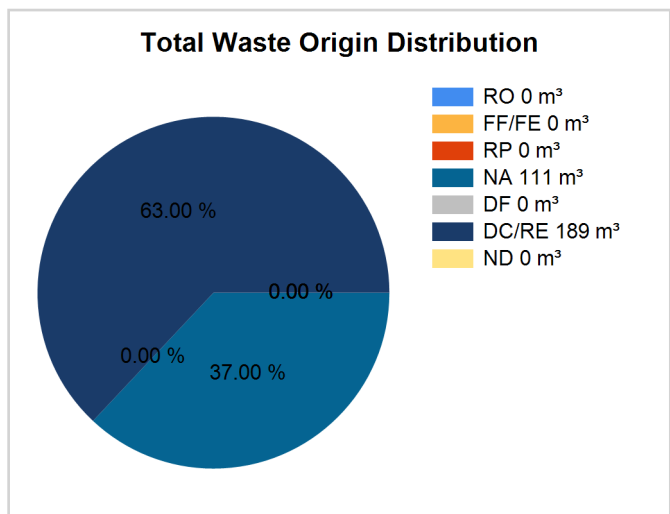
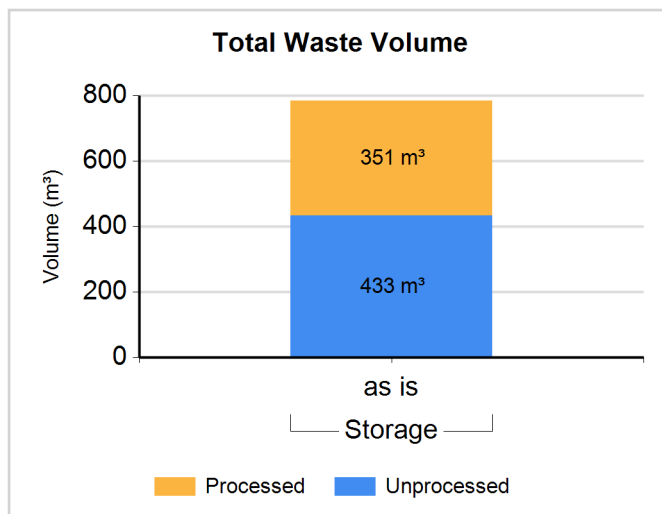
Attachment #177: Site

455 ICEM.pdf

Paper presented in ASME Conference Radioactive Waste Management and Environmental Restoration, Nagoya, Japan, 1999

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.

Site (Data) : Paldiski

Stock of waste as at December 2004

Country: ESTONIA

Reporting Year: 2004

Waste Class: LILW-SL

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LILW-SL	Storage	N	N	432.000	432.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00
LILW-SL	Storage	Y	N	351.000	351.000	0.00	0.00	0.00	11.00	0.00	89.00	0.00

Waste Class: LILW-LL

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LILW-LL	Storage	N	N	1.000	1.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00

Comment # 7570: Dep U

1 m3 of Dep U from shielding in NA facilities

Processing - Treatment method(s)

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

Site (Data) : Paldiski

Stock of waste as at December 2004

Country: ESTONIA

Reporting Year: 2004

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 more than 4GBq but less than or equal 4E+4GBq	Group III more than 4E+4GBq					
	num/activity	num/activity	num/activity					
Co-60	39			N	Y	Y	2.290E+001	2003.12
	2.290E+001							
Co-60		23		N	Y	Y	8.450E+004	2003.12
		8.450E+004						
Cs-137		461		N	Y	Y	7.770E+005	2003.12
		7.770E+005						
Cs-137	289			N	Y	Y	1.080E+002	2003.12
	1.080E+002							
Kr-85		5		N	Y	Y	2.700E+001	2003.12
		2.700E+001						
Pm-147	2			N	Y	Y	1.300E-003	2003.12
	1.300E-003							
Sr-90	96			N	Y	Y	7.320E+001	2003.12
	7.320E+001							
Sr-90		37		N	Y	Y	7.430E+005	2003.12
		7.430E+005						

Site (Data) : Paldiski

Stock of waste as at December 2004

Country: ESTONIA

Reporting Year: 2004

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		27	N	Y	Y	1.240E+002	2003.12
		1.240E+002					
Pu-238		44	N	Y	Y	1.350E+004	2003.12
		1.350E+004					
Pu-239	11356		N	Y	Y	1.610E+002	2003.12
	1.610E+002						