

Site (Data) : Kh SE

Stock of waste as at December 2005

Country: UKRAINE

Reporting Year: 2005

Site Name: Kh SE

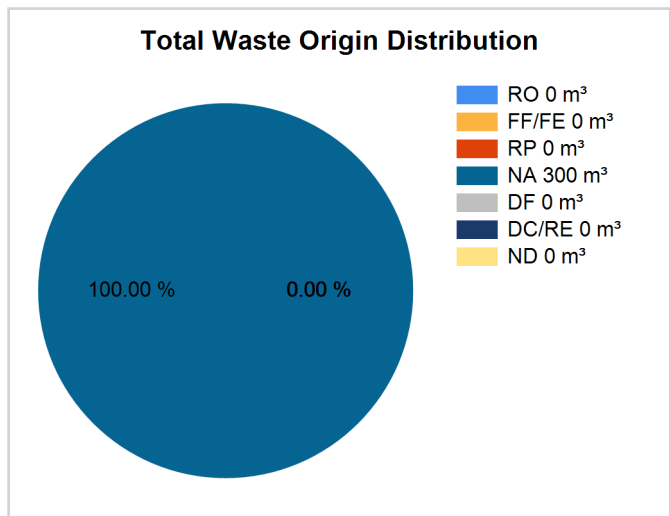
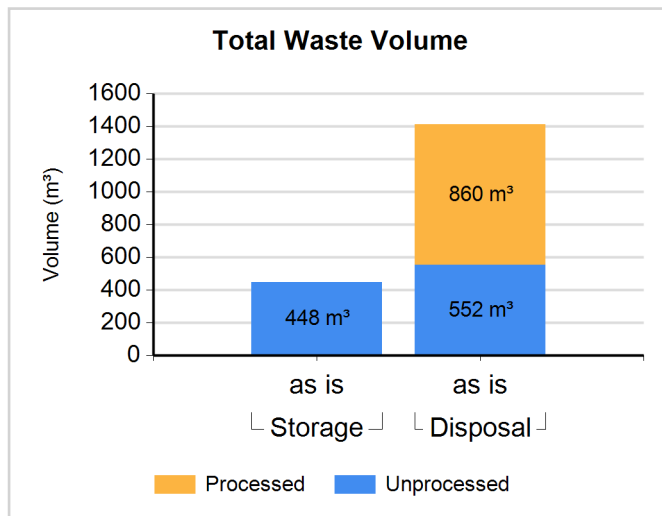
Full Name: Kharkov State Interregional Special Enterprise

Inventory Reporting Date: December 2005

Waste Matrix Used: Ukraine

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: Mid-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Mid-Active	Storage	N	N	448.000	448.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00
Mid-Active	Disposal	N	N	552.000	552.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00
Mid-Active	Disposal	Y	N	860.000	860.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00

Comment # 6808: The additional characteristics of the waste

Unprocessed: liquid (aqueous), solid (non-dispersible)

Processed: solid (non-dispersible)

Processing - Conditioning method(s)

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

Spent Sources <=30 years in Disposition

Number of Sources/Total Activity of Sources (GBq)		
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

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Nuclide	num/activity	num/activity	num/activity	c	u	c	Total Activity for	Decay Date
Cd-109	22			N	Y	Y	3.800E-002	
	3.800E-002							
Ce-139	1			N	Y	Y	1.000E-004	
	1.000E-004							
Cf-252	16	1		N	Y	Y	1.701E+001	
	5.300E-003	1.700E+001						
Cf-252	1			N	Y	Y	8.190E-006	
	8.190E-006							
Co-56	25			N	Y	Y	1.000E-007	
	1.000E-007							
Co-56	17			N	Y	Y	1.960E-004	
	1.960E-004							
Co-56	1			N	Y	Y	1.000E-004	
	1.000E-004							
Co-57	2			N	Y	Y	1.000E-004	
	1.000E-004							
Co-57	26			N	Y	Y	1.900E-004	
	1.900E-004							
Co-58	31			N	Y	Y	1.000E-007	
	1.000E-007							
Co-60	424	3		N	Y	Y	1.164E+002	
	6.350E+000	1.100E+002						
Co-60	1091	64		N	Y	Y	2.830E+002	
	2.300E+001	2.600E+002						
Co-60	75			N	Y	Y	1.810E-002	
	1.810E-002							
Co-60	1			N	Y	Y	1.670E-002	
	1.670E-002							

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Co-60	1			N	Y	Y	2.610E-003	
	2.610E-003							
Co-60	3			N	Y	Y	5.710E+000	
	5.710E+000							
Cs-137	92	179		N	Y	Y	1.091E+004	
	1.410E+001	1.090E+004						
Cs-137	78			N	Y	Y	2.020E+001	
	2.020E+001							
Cs-137		111		N	Y	Y	5.940E+003	
		5.940E+003						
Cs-137	568	1493		N	Y	Y	7.827E+004	
	2.700E+002	7.800E+004						
Cs-137	261	376		N	Y	Y	2.403E+004	
	1.290E+002	2.390E+004						
Eu-152		1		N	Y	Y	2.300E+001	
		2.300E+001						
Fe-55	15			N	Y	Y	2.000E+000	
	2.000E+000							
Fe-55	2			N	Y	Y	3.400E-003	
	3.400E-003							
Fe-55	2			N	Y	Y	2.310E-002	
	2.310E-002							
Fe-59	8			N	Y	Y	1.000E-007	
	1.000E-007							
H-3	43			N	Y	Y	9.790E-002	
	9.790E-002							
H-3	376			N	Y	Y	1.810E+002	
	1.810E+002							
H-3		38		N	Y	Y	3.100E+004	
		3.100E+004						

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Hg-203	5			N	Y	Y	1.000E+000	
	1.000E+000							
I-125	2			N	Y	Y	2.600E-006	
	2.600E-006							
I-131	1			N	Y	Y	1.000E+000	
	1.000E+000							
Ir-192	12			N	Y	Y	8.820E-002	
	8.820E-002							
Ir-192	221			N	Y	Y	4.400E-001	
	4.400E-001							
Ir-192	3			N	Y	Y	8.820E+000	
	8.820E+000							
Ir-192	1			N	Y	Y	2.320E+000	
	2.320E+000							
Kr-85	1			N	Y	Y	2.300E+000	
	2.300E+000							
Mn-54	13			N	Y	Y	2.700E-007	
	2.700E-007							
Mn-54	5			N	Y	Y	2.890E-008	
	2.890E-008							
Na-22	3			N	Y	Y	5.360E-006	
	5.360E-006							
Na-22	14			N	Y	Y	5.300E-005	
	5.300E-005							
Na-22	1			N	Y	Y	1.000E-004	
	1.000E-004							
Pm-147	21			N	Y	Y	1.000E-004	
	1.000E-004							
Pm-147	42	10		N	Y	Y	3.602E+002	
	1.800E-001	3.600E+002						

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Pm-147	10			N	Y	Y	1.270E-006	
	1.270E-006							
Po-210	130			N	Y	Y	3.800E-002	
	3.800E-002							
Ru-106	1			N	Y	Y	8.000E-005	
	8.000E-005							
Sn-113	24			N	Y	Y	2.800E-008	
	2.800E-008							
Sn-119m	3			N	Y	Y	8.100E-005	
	8.100E-005							
Sn-119m	1			N	Y	Y	1.500E-006	
	1.500E-006							
Sr-90	6456	3		N	Y	Y	2.117E+002	
	1.330E+002	7.870E+001						
Sr-90	1837			N	Y	Y	3.000E+002	
	3.000E+002							
Sr-90		20		N	Y	Y	1.600E+002	
		1.600E+002						
Sr-90	165			N	Y	Y	5.320E+001	
	5.320E+001							
Sr-90		1		N	Y	Y	3.200E+001	
		3.200E+001						
Sr-90	100			N	Y	Y	2.490E+001	
	2.490E+001							
TI-204	9			N	Y	Y	3.100E+000	
	3.100E+000							
TI-204	4			N	Y	Y	2.100E+000	
	2.100E+000							
TI-204	1			N	Y	Y	4.570E-009	
	4.570E-009							

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Tm-170	2			N	Y	Y	1.000E-007	
	1.000E-007							
Tm-170	21			N	Y	Y	4.000E-002	
	4.000E-002							
Tm-170	1			N	Y	Y	1.000E-004	
	1.000E-004							
Zn-65	79			N	Y	Y	1.410E-003	
	1.410E-003							

Spent Sources > 30 years in Disposition

Nuclide	Number of Sources/Total Activity of Sources (GBq)		c	o	n	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	160		N	Y	Y	Y	Y	9.800E+001		
	9.800E+001									
Am-241		75	N	Y	Y	Y	Y	1.100E+003		
		1.100E+003								
Am-241	5	1	N	Y	Y	Y	Y	7.299E+001		
	4.790E+000	6.820E+001								
Am-241	82		N	Y	Y	Y	Y	2.710E+000		
	2.710E+000									
Am-243		1	N	Y	Y	Y	Y	1.500E+003		
		1.500E+003								
C-14	5		N	Y	Y	Y	Y	3.700E-001		
	3.700E-001									
C-14	6		N	Y	Y	Y	Y	7.770E-002		
	7.770E-002									
Ni-63	10		N	Y	Y	Y	Y	8.110E+000		
	8.110E+000									

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Ni-63	14		N	Y	Y	8.800E+000	
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Pu-238	1553		N	Y	Y	9.100E+002	
	9.100E+002						
Pu-238		78	N	Y	Y	8.000E+003	
		8.000E+003					
Pu-238	2715		N	Y	Y	3.080E+000	
	3.080E+000						
Pu-239	9453		N	Y	Y	1.310E+001	
	1.310E+001						
Pu-239		1	N	Y	Y	1.590E+002	
		1.590E+002					
Pu-239	18923		N	Y	Y	3.600E+002	
	3.600E+002						
Pu-239		8	N	Y	Y	1.000E+002	
		1.000E+002					
Pu-239	10098		N	Y	Y	3.160E+002	
	3.160E+002						
Ra-226	978		N	Y	Y	1.900E-001	
	1.900E-001						
Ra-226	5		N	Y	Y	3.590E-006	
	3.590E-006						
Th-232	1		N	Y	Y	2.000E-005	
	2.000E-005						
Th-232	2		N	Y	Y	1.900E-002	
	1.900E-002						
U-238	26		N	Y	Y	1.300E-003	
	1.300E-003						
U-238	2		N	Y	Y	1.150E-006	
	1.150E-006						

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