

## Site (Data) : Dnibr SE

Stock of waste as at December 2008

Country: UKRAINE

Reporting Year: 2008

Site Name: Dnibr SE

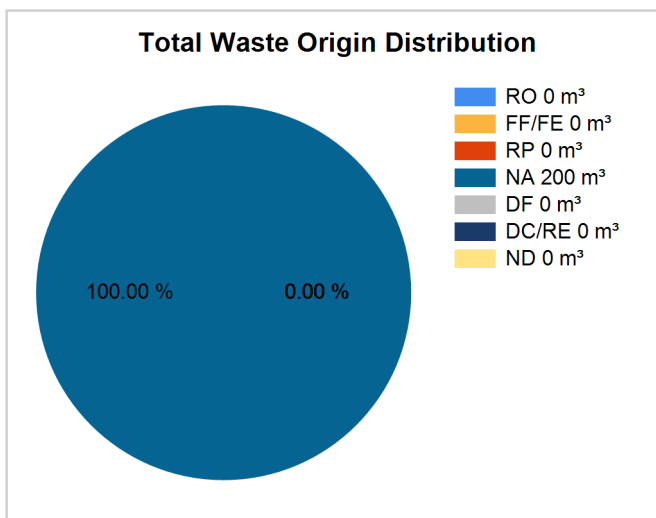
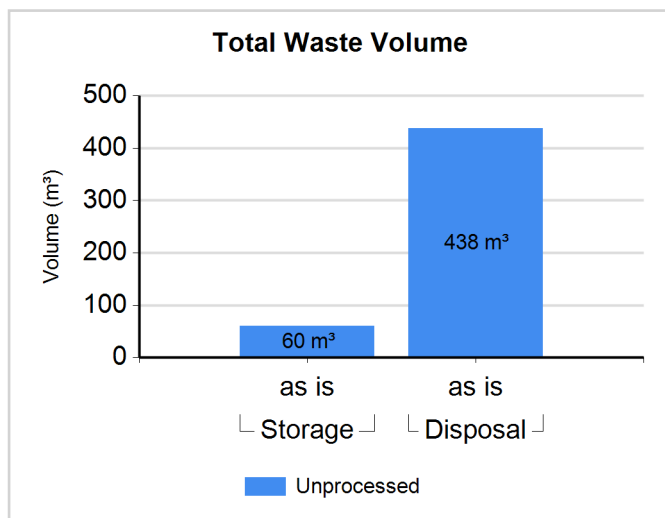
Full Name: Dnipropetrovsk State Interregion Special Enterprise

Inventory Reporting Date: December 2008

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	60.000	60.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00
Mid-Active	Disposal	N	N	438.000	438.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00

Comment # 6803: The additional characteristics of the waste

Unprocessed: liquid (aqueous)

## Spent Sources &lt;=30 years in Disposition

Nuclide	Number of Sources/Total Activity of Sources (GBq)			c	o	n	d	c	u	n	c	o	n	d	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													
Cd-109	9			N	Y	Y									3.400E+000	
	3.400E+000															
Cd-109	2			N	Y	Y									2.100E-004	
	2.100E-004															

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Ce-139	10			N	Y	Y	1.300E-003	
	1.300E-003							
Cf-252		2		N	Y	Y	2.400E+004	
		2.400E+004						
Co-57	41	2		N	Y	Y	1.690E+001	
	5.900E+000	1.100E+001						
Co-57	10			N	Y	Y	8.400E-003	
	8.400E-003							
Co-60	39			N	Y	Y	1.100E+001	
	1.100E+001							
Co-60	204			N	Y	Y	3.200E+000	
	3.200E+000							
Co-60	1239	19		N	Y	Y	7.302E+004	
	1.700E+001	7.300E+004						
Co-60		695		N	Y	Y	4.600E+004	
		4.600E+004						
Co-60	20			N	Y	Y	4.300E-004	
	4.300E-004							
Co-60	184			N	Y	Y	9.900E+000	
	9.900E+000							
Co-60	207			N	Y	Y	4.400E+000	
	4.400E+000							
Cs-137	73	110		N	Y	Y	5.940E+003	
	1.400E+002	5.800E+003						
Cs-137	26	52		N	Y	Y	2.375E+003	
	7.500E+001	2.300E+003						
Cs-137		4993		N	Y	Y	2.800E+005	
		2.800E+005						
Cs-137	510	1055		N	Y	Y	7.045E+004	
	4.500E+002	7.000E+004						

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Cs-137	122	143		N	Y	Y	9.202E+003	
	1.900E+000	9.200E+003						
Cs-137	97			N	Y	Y	7.000E+001	
	7.000E+001							
Cs-137		119		N	Y	Y	7.500E+003	
		7.500E+003						
Fe-55	2			N	Y	Y	1.200E-002	
	1.200E-002							
Fe-55	6			N	Y	Y	1.000E+001	
	1.000E+001							
Fe-55	4			N	Y	Y	3.300E-001	
	3.300E-001							
H-3	169			N	Y	Y	3.400E+002	
	3.400E+002							
H-3	1118			N	Y	Y	2.300E+003	
	2.300E+003							
H-3	1			N	Y	Y	1.000E-001	
	1.000E-001							
Hg-203	1			N	Y	Y	9.800E-006	
	9.800E-006							
Hg-203	14			N	Y	Y	5.000E+000	
	5.000E+000							
Ir-192		122		N	Y	Y	7.000E+003	
		7.000E+003						
Ir-192		8		N	Y	Y	1.700E+004	
		1.700E+004						
Ir-192	1			N	Y	Y	2.800E-003	
	2.800E-003							
Ir-192	6			N	Y	Y	5.500E+000	
	5.500E+000							

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Ir-192	3			N	Y	Y	1.100E-001	
	1.100E-001							
Kr-85		2		N	Y	Y	9.800E+000	
		9.800E+000						
Mn-54	9			N	Y	Y	1.100E-003	
	1.100E-003							
Mn-54	1			N	Y	Y	4.700E-004	
	4.700E-004							
Na-22	1			N	Y	Y	6.000E-005	
	6.000E-005							
Na-22	7			N	Y	Y	6.700E-004	
	6.700E-004							
Na-22	1			N	Y	Y	3.600E-009	
	3.600E-009							
P-32	13			N	Y	Y	1.200E+001	
	1.200E+001							
P-32	12			N	Y	Y	2.600E-001	
	2.600E-001							
Pm-147	306	3		N	Y	Y	1.602E+003	
	1.500E+000	1.600E+003						
Pm-147		310		N	Y	Y	1.900E+003	
		1.900E+003						
Pm-147	44	2		N	Y	Y	5.203E+001	
	3.000E-002	5.200E+001						
Pm-147	25			N	Y	Y	1.000E-002	
	1.000E-002							
Se-75	2			N	Y	Y	3.500E+000	
	3.500E+000							
Se-75	2			N	Y	Y	1.400E-002	
	1.400E-002							

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Se-75	1			N	Y	Y	5.300E-003	
	5.300E-003							
Sn-113	10			N	Y	Y	1.400E-003	
	1.400E-003							
Sn-113	1			N	Y	Y	1.800E-005	
	1.800E-005							
Sr-90	85			N	Y	Y	5.800E+000	
	5.800E+000							
Sr-90	559			N	Y	Y	1.100E+003	
	1.100E+003							
Sr-90	8352			N	Y	Y	4.400E+001	
	4.400E+001							
Th-228	1			N	Y	Y	7.400E-001	
	7.400E-001							
Tl-204	48			N	Y	Y	3.000E+000	
	3.000E+000							
Tl-204	53			N	Y	Y	7.800E+000	
	7.800E+000							
Y-88	12			N	Y	Y	1.400E-003	
	1.400E-003							
Y-88	1			N	Y	Y	1.100E-005	
	1.100E-005							
Zn-65	3			N	Y	Y	5.200E-005	
	5.200E-005							
Zn-65	8			N	Y	Y	9.200E-004	
	9.200E-004							

**Spent Sources > 30 years in Disposition**

Number of Sources/Total Activity of Sources (GBq)	
Group I less than or equal 2 GBq	Group II more than 2GBq

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Nuclide	num/activity	num/activity	c o	u n	c a	Total Activity for	Decay Date
Am-241	262		N	Y	Y	4.200E-001	
	4.200E-001						
Am-241		6	N	Y	Y	2.100E+001	
		2.100E+001					
Am-241		199	N	Y	Y	1.500E+003	
		1.500E+003					
Am-241	1		N	Y	Y	2.100E-005	
	2.100E-005						
Am-241		13	N	Y	Y	2.600E+003	
		2.600E+003					
Am-241	690		N	Y	Y	4.500E+002	
	4.500E+002						
Am-241		52	N	Y	Y	6.700E+002	
		6.700E+002					
C-14	125		N	Y	Y	1.800E-002	
	1.800E-002						
Ni-63	82		N	Y	Y	7.400E-003	
	7.400E-003						
Ni-63	2		N	Y	Y	2.100E+000	
	2.100E+000						
Ni-63	51		N	Y	Y	1.500E+000	
	1.500E+000						
Ni-63	8		N	Y	Y	3.000E-002	
	3.000E-002						
Pu-238	1		N	Y	Y	3.600E-007	
	3.600E-007						
Pu-238	6		N	Y	Y	1.200E+001	
	1.200E+001						

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Pu-238		2	N	Y	Y	7.400E+001	
		7.400E+001					
Pu-238	1		N	Y	Y	1.100E+000	
	1.100E+000						
Pu-238	14		N	Y	Y	3.600E+000	
	3.600E+000						
Pu-239	20872	196	N	Y	Y	1.710E+003	
	9.800E+000	1.700E+003					
Pu-239	5708		N	Y	Y	1.900E+001	
	1.900E+001						
Pu-239	26848		N	Y	Y	3.500E+003	
	3.500E+003						
Pu-239	1700		N	Y	Y	5.400E+001	
	5.400E+001						
Ra-226	4		N	Y	Y	4.800E-002	
	4.800E-002						
Ra-226	52		N	Y	Y	1.700E+000	
	1.700E+000						
Ra-226	6		N	Y	Y	1.800E+000	
	1.800E+000						
Ra-226		1	N	Y	Y	3.100E+000	
		3.100E+000					
Ra-226	32		N	Y	Y	1.100E+000	
	1.100E+000						
Th-232	1		N	Y	Y	9.000E-001	
	9.000E-001						
U-233	1		N	Y	Y	8.400E-006	
	8.400E-006						
U-234	5		N	Y	Y	8.300E-007	
	8.300E-007						

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U-235	1		N	Y	Y	1.000E-003	
	1.000E-003						
U-238	7		N	Y	Y	1.600E-005	
	1.600E-005						



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**Multiple Nuclides SRS in Disposition**

Nuclide	Activity of Sources (GBq)	cond	uncond	cat	Decay Date
Pu-238	9.500E-006	N	Y	N	
Pu-239	9.500E-006	N	Y	N	
U-233	1.900E-005	N	Y	Y	
Pu-238	1.000E-005	N	Y	N	
Pu-239	1.000E-005	N	Y	N	
U-233	2.000E-005	N	Y	Y	
Pu-238	1.000E-005	N	Y	N	
Pu-239	1.000E-005	N	Y	N	
U-233	2.000E-005	N	Y	Y	
Pu-238	9.450E-006	N	Y	N	
Pu-239	9.450E-006	N	Y	N	
U-233	1.890E-005	N	Y	Y	
Pu-238	9.400E-006	N	Y	N	
Pu-239	9.400E-006	N	Y	N	
U-233	1.880E-005	N	Y	Y	
Pu-238	9.000E-006	N	Y	N	
Pu-239	9.000E-006	N	Y	N	
U-233	1.800E-005	N	Y	Y	
Pu-238	1.035E-005	N	Y	N	
Pu-239	1.035E-005	N	Y	N	
U-233	2.075E-005	N	Y	Y	
Pu-238	1.090E-005	N	Y	Y	
Pu-239	1.090E-005	N	Y	Y	
U-233	2.180E-005	N	Y	Y	