

Site (Data) : Novi Han

Stock of waste as at December 2008

Country: BULGARIA

Reporting Year: 2008

Site Name: Novi Han

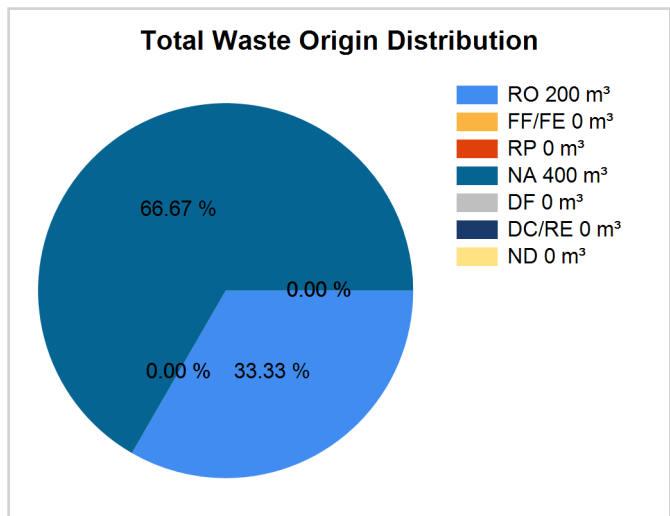
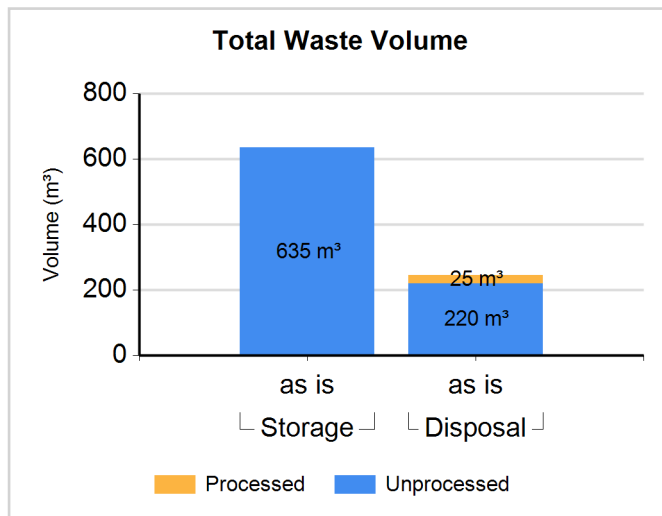
Full Name: Novi Han Repository

Inventory Reporting Date: December 2008

Waste Matrix Used: BGNat

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: Category 2b

Waste Class Name	Location / Facility	Proc.	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Category 2b	Storage / Stor2000	N	N	418.000	418.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00

Waste Class: Category 2a

Waste Class Name	Location / Facility	Proc.	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Category 2a (liquid)	Storage / Liquid	N	N	69.000	69.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Category 2a (solid)	Storage / Stor2000	N	N	148.000	148.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Category 2a	Disposal / Accidental	N	N	100.000	100.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00
Category 2a	Disposal / Biological	Y	N	25.000	25.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00
Category 2a	Disposal / Solid	N	N	120.000	120.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00

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Processing - Treatment method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Decontamination	N	Y	Same	N
Filtration	N	Y		N
Segregation/Sorting	N	Y	Same	N
Wastewater Treatment	N	Y	Same	N

Processing - Conditioning method(s)

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

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					
Ba-133	7			N	Y	N	3.720E-001	
	3.720E-001							
Cd-109	49			N	Y	N	2.550E+000	
	2.550E+000							
Ce-141	1			N	Y	N	4.000E-002	
	4.000E-002							
Ce-144	6			N	Y	N	8.850E-002	
	8.850E-002							
Cf-252	4			N	Y	Y	9.100E-002	
	9.100E-002							

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Co-57	12			N	Y	Y	1.460E-003	
	1.460E-003							
Co-60		357		N	Y	Y	1.670E+003	
		1.670E+003						
Co-60		36		N	Y	Y	6.270E+003	
		6.270E+003						
Cr-51	1			N	Y	N	4.000E-001	
	4.000E-001							
Cs-137	2962			N	Y	Y	3.420E+003	
	3.420E+003							
Eu-152	5			N	Y	N	1.000E-001	
	1.000E-001							
Fe-55	22			N	Y	Y	2.070E+001	
	2.070E+001							
H-3	21			N	Y	Y	3.920E-001	
	3.920E-001							
Kr-85	12271			N	Y	Y	4.710E+002	
	4.710E+002							
Na-22	16			N	Y	Y	6.540E-003	
	6.540E-003							
Pm-147	14			N	Y	Y	5.090E+001	
	5.090E+001							
Sr-90	741			N	Y	Y	1.560E+002	
	1.560E+002							
Tl-204	19			N	Y	N	2.000E+001	
	2.000E+001							

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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		34447	N	Y	Y	7.870E+004	
		7.870E+004					
Am-241		16	N	Y	Y	3.740E+001	
		3.740E+001					
C-14	104		N	Y	N	5.000E+000	
	5.000E+000						
Cl-36	4		N	Y	N	4.630E+000	
	4.630E+000						
Pu-238	1462		N	Y	N	4.000E+002	
	4.000E+002						
Pu-239	70437		N	Y	N	8.930E+002	
	8.930E+002						
Pu-239		71	N	Y	Y	1.850E+003	
		1.850E+003					
Ra-226		1	N	Y	Y	2.400E+000	
		2.400E+000					
Ra-226	219		N	Y	Y	5.590E+000	
	5.590E+000						
Th-232	14		N	Y	N	1.780E-001	
	1.780E-001						

Comment

7416: Neutron generators

Separately reported Am-241, Pu-239 and Ra-226 sources of lower number (16, 71 and 1) are in fact neutron generators (e.g. Am-241/Be).