

Site (Data) : RWMF

Stock of waste as at December 2008

Country: CUBA

Reporting Year: 2008

Site Name: RWMF

Full Name: Radioactive Waste Management Facility

Inventory Reporting Date: December 2008

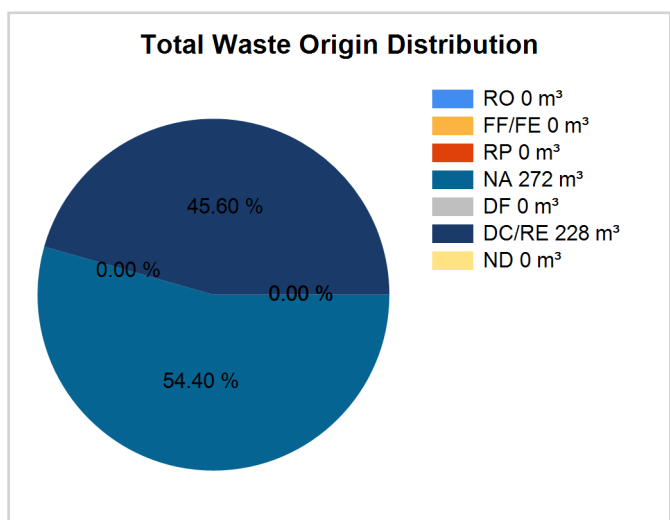
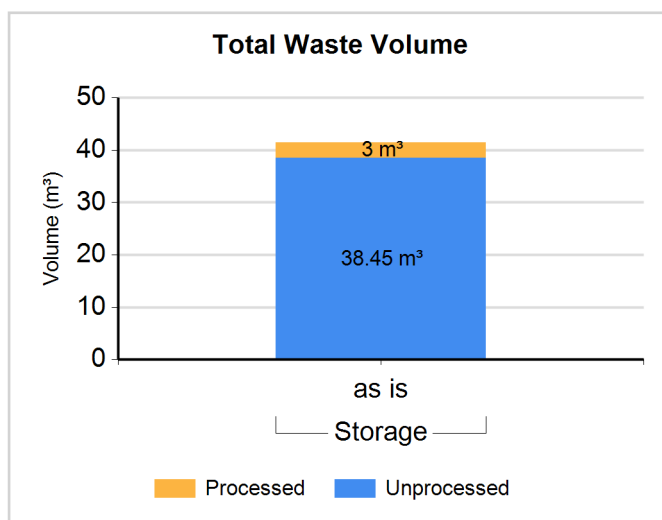
Waste Matrix Used: IAEA Def.

Comment # 181: RWMF

Radioactive Waste Management Facility belongs to the Center for Radiation Protection and Hygiene, which is the License Holder

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: LLW

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LLW (liquid)	Storage	N	N	2.980	2.980	0.00	0.00	0.00	100.00	0.00	0.00	0.00
LLW (solid)	Storage	N	N	29.770	29.770	0.00	0.00	0.00	23.00	0.00	77.00	0.00
LLW (solid)	Storage	Y	N	2.800	2.800	0.00	0.00	0.00	100.00	0.00	0.00	0.00

Waste Class: ILW

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
ILW (solid)	Storage	N	N	5.700	5.700	0.00	0.00	0.00	49.00	0.00	51.00	0.00
ILW (solid)	Storage	Y	N	0.200	0.200	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Processing - Treatment method(s)

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

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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	N	N	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	6			Y	N	Y	1.500E-002	
	1.500E-002							
Cf-252	6			N	Y	Y	6.200E-001	
	6.200E-001							
Co-60			4	Y	N	Y	1.300E+006	
			1.300E+006					
Co-60		6	15	N	Y	Y	4.010E+006	
		2.100E+005	3.800E+006					
Co-60		6		N	Y	Y	9.600E+003	
		9.600E+003						
Co-60	5	5		Y	N	Y	5.800E+002	
	2.000E+001	5.600E+002						
Co-60		2		N	Y	Y	1.600E+002	
		1.600E+002						
Co-60	51	41		Y	N	Y	3.900E+002	
	1.200E+002	2.700E+002						
Co-60	20			N	Y	Y	4.100E+001	
	4.100E+001							
Co-60	155			Y	N	Y	8.300E+000	
	8.300E+000							

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Co-60	72			N	Y	Y	8.800E-001	
	8.800E-001							
Cs-137		5		Y	N	Y	5.600E+004	
		5.600E+004						
Cs-137	1	99		Y	N	Y	2.200E+004	
	2.100E-001	2.200E+004						
Cs-137		17		N	Y	Y	2.900E+003	
		2.900E+003						
Cs-137	4	365		Y	N	Y	4.602E+004	
	1.500E+001	4.600E+004						
Cs-137	1	3		N	Y	Y	3.000E+001	
	4.000E+000	2.600E+001						
Cs-137	137	82		Y	N	Y	1.430E+003	
	2.300E+002	1.200E+003						
Cs-137	6			N	Y	Y	1.600E+001	
	1.600E+001							
Cs-137	144			Y	N	Y	2.100E+001	
	2.100E+001							
Cs-137	40			N	Y	Y	1.700E+000	
	1.700E+000							
Eu-152	2			Y	N	Y	4.400E-004	
	4.400E-004							
Eu-154	2			Y	N	Y	2.100E+000	
	2.100E+000							
Eu-154	1			N	Y	Y	1.900E-004	
	1.900E-004							
Eu-155	1			N	Y	Y	1.900E-004	
	1.900E-004							
H-3	18			Y	N	Y	5.000E+001	
	5.000E+001							

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H-3	12			N	Y	Y	1.700E-003	
	1.700E-003							
Hg-203	2			Y	N	Y	1.500E-003	
	1.500E-003							
Hg-203	2			N	Y	Y	2.000E-006	
	2.000E-006							
Kr-85	2			Y	N	Y	4.600E+000	
	4.600E+000							
Kr-85	1	1		N	Y	Y	1.700E+001	
	2.000E+000	1.500E+001						
Kr-85	15			Y	N	Y	3.000E-003	
	3.000E-003							
Kr-85	1500			N	Y	Y	1.800E+000	
	1.800E+000							
Pb-210	70			Y	N	Y	2.000E-003	
	2.000E-003							
Sr-90	199	2		Y	N	Y	5.800E+002	
	1.700E+002	4.100E+002						
Sr-90	35			N	Y	Y	3.200E+001	
	3.200E+001							
Sr-90	579	1		Y	N	Y	3.740E+001	
	3.000E+001	7.400E+000						
Sr-90	663			N	Y	Y	6.400E+000	
	6.400E+000							

Spent Sources > 30 years in Storage

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								

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Am-241	1	2	N	Y	Y	1.270E+001	
	1.700E+000	1.100E+001					
Am-241			N	Y	N	0.000E+000	
Am-241	1		N	Y	Y	5.200E-001	
	5.200E-001						
Am-241	6		Y	N	Y	4.100E+000	
	4.100E+000						
Am-241	6	7	Y	N	Y	4.200E+001	
	1.000E+001	3.200E+001					
Am-241	8460		Y	N	Y	1.500E+001	
	1.500E+001						
Am-241	15614		N	Y	Y	3.500E+000	
	3.500E+000						
Am-241	1	18	N	Y	Y	1.501E+003	
	1.100E+000	1.500E+003					
Am-241	6		N	Y	Y	1.200E+001	
	1.200E+001						
C-14	5		Y	N	Y	2.800E-005	
	2.800E-005						
C-14	8		N	Y	Y	8.200E-004	
	8.200E-004						
I-129	2		Y	N	Y	4.500E-006	
	4.500E-006						
Ni-63	4		Y	N	Y	1.600E+000	
	1.600E+000						
Pu-238	6		N	Y	Y	6.800E+000	
	6.800E+000						
Pu-238	13		N	Y	Y	8.900E+000	
	8.900E+000						

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Pu-238	1	4	N	Y	Y	7.212E+002	
	1.200E+000	7.200E+002					
Pu-238	2		N	Y	Y	2.400E+000	
	2.400E+000						
Pu-239	40		N	Y	Y	1.900E-002	
	1.900E-002						
Pu-239		6	N	Y	Y	1.300E+003	
		1.300E+003					
Ra-226	1010		Y	N	Y	1.700E+002	
	1.700E+002						
Ra-226	62		Y	N	Y	8.000E+000	
	8.000E+000						
Ra-226	8		N	Y	Y	3.400E-001	
	3.400E-001						
Ra-226	1		N	Y	Y	1.900E-001	
	1.900E-001						

Multiple Nuclides SRS in Storage

Nuclide	Activity of Sources (GBq)	cond	uncond	cat	Decay Date
Am-241	1.000E-004	Y	N	Y	
Sr-90	1.000E-004	Y	N	N	