

## Site (Data) : RWMF

Stock of waste as at December 2010

Country: CUBA

Reporting Year: 2010

**Site Name:** RWMF

Full Name: Radioactive Waste Management Facility

Inventory Reporting Date: December 2010

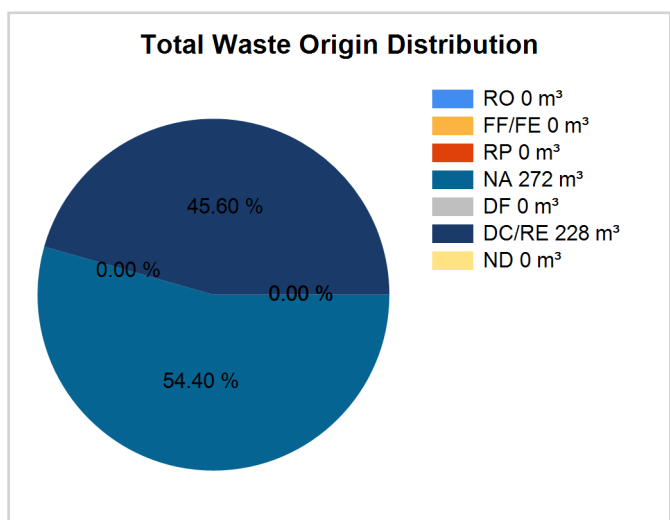
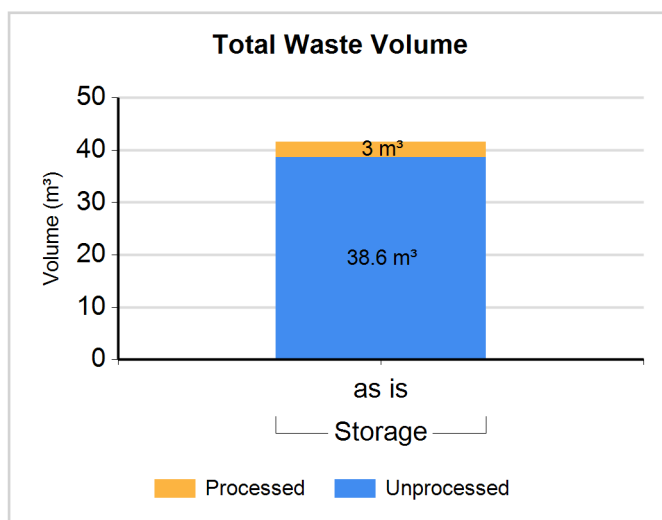
Waste Matrix Used: Waste Cuba

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: LILW-SL**

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LILW-SL (liquid)	Storage	N	N	2.980	2.980	0.00	0.00	0.00	100.00	0.00	0.00	0.00
LILW-SL (solid)	Storage	N	N	29.920	29.920	0.00	0.00	0.00	23.00	0.00	77.00	0.00
LILW-SL (solid)	Storage	Y	N	2.800	2.800	0.00	0.00	0.00	100.00	0.00	0.00	0.00

**Waste Class: LILW-LL**

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LILW-LL (solid)	Storage	N	N	5.700	5.700	0.00	0.00	0.00	49.00	0.00	51.00	0.00
LILW-LL (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 &lt;=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	1.520E-002	
	1.520E-002							
Ba-133	1			N	Y	Y	1.000E-008	
	1.000E-008							
Cf-252	6			N	Y	Y	6.000E-001	
	6.000E-001							
Co-60			5	Y	N	Y	1.250E+006	
			1.250E+006					
Co-60			33	N	Y	Y	5.280E+006	
			5.280E+006					
Co-60		42		N	Y	Y	2.330E+005	
		2.330E+005						
Co-60	6	5		Y	N	Y	5.801E+002	
	2.010E+001	5.600E+002						
Co-60		4		N	Y	Y	3.030E+002	
		3.030E+002						
Co-60	75	17		Y	N	Y	3.890E+002	
	1.530E+002	2.360E+002						
Co-60	22	5		N	Y	Y	7.610E+001	
	3.790E+001	3.820E+001						

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Co-60	190			Y	N	Y	8.260E+000	
	8.260E+000							
Co-60	222			N	Y	Y	9.270E-001	
	9.270E-001							
Cs-137		5		Y	N	Y	5.600E+004	
		5.600E+004						
Cs-137		97		Y	N	Y	2.160E+004	
		2.160E+004						
Cs-137		19		N	Y	Y	3.300E+003	
		3.300E+003						
Cs-137	4	368		Y	N	Y	4.642E+004	
	1.500E+001	4.640E+004						
Cs-137	136	83		Y	N	Y	1.506E+003	
	2.260E+002	1.280E+003						
Cs-137	15	8		N	Y	Y	1.852E+002	
	1.820E+001	1.670E+002						
Cs-137	198			Y	N	Y	2.120E+001	
	2.120E+001							
Cs-137	1	10		N	Y	Y	1.440E+003	
	3.700E-002	1.440E+003						
Cs-137	149			N	Y	Y	3.150E+000	
	3.150E+000							
Eu-152	2			N	Y	Y	8.800E-004	
	8.800E-004							
Eu-152	1			Y	N	Y	4.300E-006	
	4.300E-006							
Eu-154	2			Y	N	Y	2.100E+000	
	2.100E+000							
Eu-154	1			N	Y	Y	2.000E-004	
	2.000E-004							

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Eu-155	1			N	Y	Y	1.850E-004	
	1.850E-004							
H-3	18			Y	N	Y	5.000E+001	
	5.000E+001							
H-3	78			N	Y	Y	1.360E-002	
	1.360E-002							
Hg-203	2			Y	N	Y	1.500E-003	
	1.500E-003							
Hg-203	2			N	Y	Y	3.000E-011	
	3.000E-011							
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	17			Y	N	Y	3.300E-003	
	3.300E-003							
Kr-85	2204			N	Y	Y	1.720E+000	
	1.720E+000							
Pb-210	70			Y	N	Y	2.000E-003	
	2.000E-003							
Pb-210	14			N	Y	Y	4.000E-004	
	4.000E-004							
Sr-90	205			Y	N	Y	3.900E+002	
	3.900E+002							
Sr-90	53			N	Y	Y	4.900E+001	
	4.900E+001							
Sr-90	582	2		Y	N	Y	2.259E+002	
	3.390E+001	1.920E+002						
Sr-90	966			N	Y	Y	5.790E+000	
	5.790E+000							

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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	1	2	N	Y	Y	1.277E+001	
	1.670E+000	1.110E+001					
Am-241	6		Y	N	Y	4.060E+000	
	4.060E+000						
Am-241	8464		Y	N	Y	1.540E+001	
	1.540E+001						
Am-241		2	N	Y	Y	2.220E+002	
		2.220E+002					
Am-241	1	18	N	Y	Y	1.471E+003	
	1.110E+000	1.470E+003					
Am-241	18279		N	Y	Y	3.520E+000	
	3.520E+000						
Am-241	5	1	N	Y	Y	1.147E+001	
	7.770E+000	3.700E+000					
Am-241	2		N	Y	Y	1.040E+000	
	1.040E+000						
Am-241	5	9	Y	N	Y	5.141E+001	
	8.510E+000	4.290E+001					
Bi-207	1		N	Y	Y	3.000E-005	
	3.000E-005						
C-14	5		Y	N	Y	2.800E-005	
	2.800E-005						
C-14	10		N	Y	Y	8.240E-004	
	8.240E-004						

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I-129	2		N	Y	Y	4.500E-006	
	4.500E-006						
Ni-63	4		N	Y	Y	1.110E+000	
	1.110E+000						
Ni-63	4		Y	N	Y	1.550E+000	
	1.550E+000						
Pu-238	2		N	Y	Y	2.400E+000	
	2.400E+000						
Pu-238	1	4	N	Y	Y	7.212E+002	
	1.200E+000	7.200E+002					
Pu-238	6		N	Y	Y	6.750E+000	
	6.750E+000						
Pu-238	14		N	Y	Y	8.880E+000	
	8.880E+000						
Pu-238	2		N	Y	Y	2.000E-004	
	2.000E-004						
Pu-239		6	N	Y	Y	1.340E+003	
		1.340E+003					
Pu-239	41		N	Y	Y	1.860E-002	
	1.860E-002						
Ra-226	1009		Y	N	Y	1.700E+002	
	1.700E+002						
Ra-226	13		N	Y	Y	3.950E-001	
	3.950E-001						
Ra-226	62		Y	N	Y	7.950E+000	
	7.950E+000						
U-238	4		N	Y	Y	1.500E-006	
	1.500E-006						

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**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	