

Site (Data) : RWMDC

Stock of waste as at December 2009

Country: INDONESIA

Reporting Year: 2009

Site Name: RWMDC

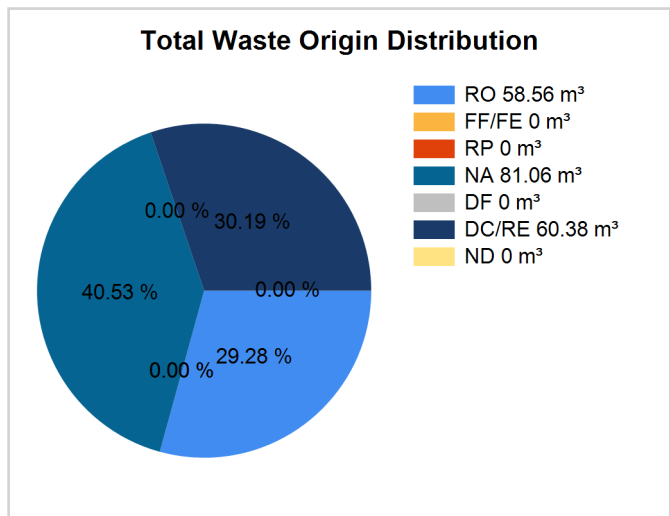
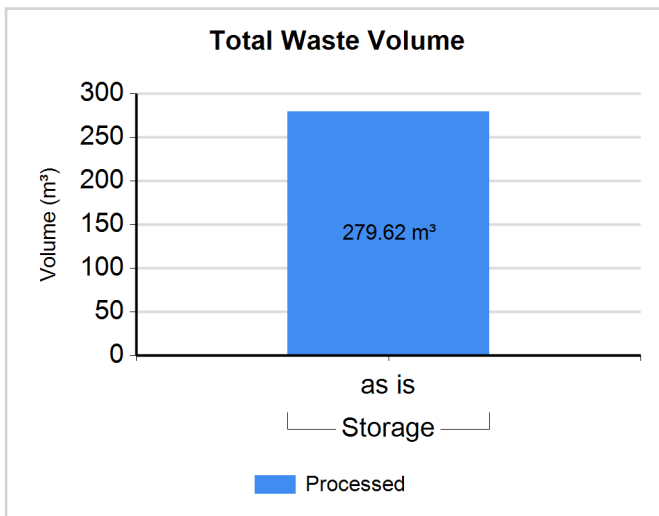
Full Name: Radioactive Waste Management Development Center, BATAN

Inventory Reporting Date: December 2009

Waste Matrix Used: National

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

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	Storage	Y	Y	195.820	195.820	58.56	0.00	0.00	41.44	0.00	0.00	0.00

Waste Class: Alpha Waste

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Alpha Waste	Storage	Y	Y	83.800	83.800	0.00	0.00	0.00	39.62	0.00	60.38	0.00

Processing - Treatment method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Chemical Precipitation	Y	N		N
Compaction	N	N	Same	N
Decontamination	N	N	Same	N
Evaporation	N	N	Same	N
Incineration	N	N	Same	N
Membrane Technology	N	Y		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	N	N	Same	N
Vitrification	N	Y		N

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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 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	6			Y	Y	Y	2.000E-001	2009.12
	2.000E-001							
Cf-252	6			Y	N	Y	2.700E+000	2006.12
	2.700E+000							
Cm-244	2	2		N	Y	Y	3.920E+001	2006.12
	2.200E+000	3.700E+001						
Co-60	69	123	4	Y	Y	Y	7.706E+005	2009.12
	8.800E+000	5.429E+005	2.277E+005					
Cs-137	164	79	3	Y	Y	Y	1.891E+005	2009.12
	7.690E+001	3.086E+004	1.582E+005					
Fe-55	7			Y	Y	Y	3.500E+000	2009.12
	3.500E+000							
Ir-192	28	1		Y	N	Y	2.800E+002	2005.12
	0.000E+000	2.800E+002						
Kr-85	22	55		Y	Y	Y	4.214E+004	2009.12
	8.110E+001	4.206E+004						
Pm-147	11	18		N	Y	Y	8.650E+001	2009.12
	3.600E+000	8.290E+001						
Se-75		6		Y	N	Y	4.066E+002	2009.12
		4.066E+002						
Sr-90	259			Y	Y	Y	1.568E+002	2009.11
	1.568E+002							

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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	43	42	Y	Y	Y	4.061E+003	2009.03
	1.120E+001	4.050E+003					
Am-241	2		N	Y	Y	2.900E+000	2008.12
	2.900E+000						
Ra-226	936	7	Y	N	Y	1.242E+002	2009.03
	1.093E+002	1.490E+001					