

Site (Data) : RWTC

Stock of waste as at December 2013

Country: INDONESIA

Reporting Year: 2013

Site Name: RWTC

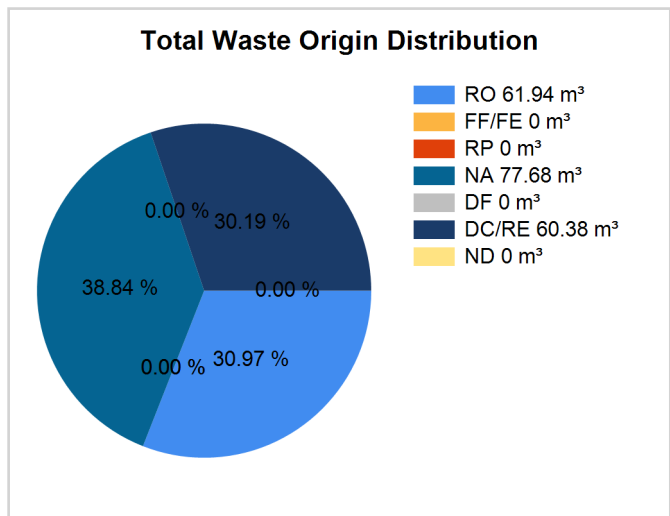
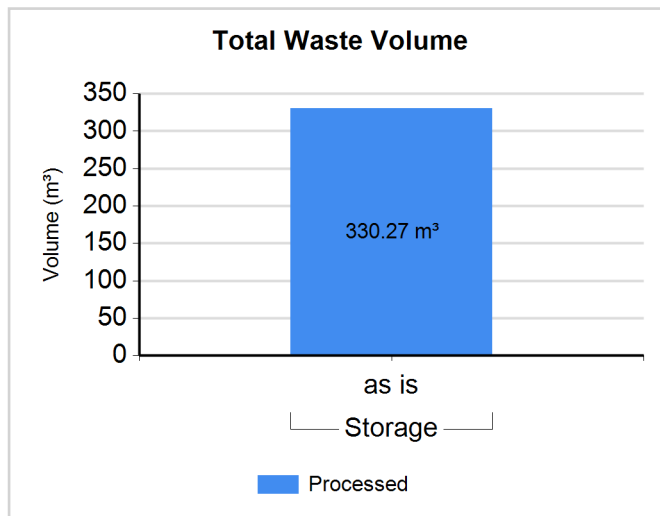
Full Name: Radioactive Waste Technology Center, BATAN

Inventory Reporting Date: December 2013

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: 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	Storage	Y	Y	246.470	246.470	61.94	0.00	0.00	38.06	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	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	N	Y	Same	N
Compaction	N	N	Same	N
Decontamination	N	N	Same	N
Evaporation	N	N	Same	N
Incineration	N	N	Same	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	Same	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	13			Y	N	Y	7.567E-001	2013.12
	7.567E-001							
Cf-252	8			Y	N	Y	1.651E+000	2013.12
	1.651E+000							
Cm-244	5	2		Y	N	Y	3.419E+001	2013.12
	5.975E+000	2.821E+001						
Co-60	146	125	10	Y	N	Y	8.377E+005	2013.12
	1.144E+001	3.174E+005	5.202E+005					
Cs-137	288	145	3	Y	N	Y	1.732E+005	2013.12
	1.980E+002	2.898E+004	1.440E+005					
Fe-55	25			Y	N	Y	1.234E+001	2013.12
	1.234E+001							
Ge-68	1			Y	N	Y	3.900E-003	2013.12
	3.900E-003							
Ir-192	286	363		Y	N	Y	3.542E+004	2013.12
	1.742E+002	3.524E+004						
Kr-85	26	70		Y	N	Y	3.249E+004	2013.12
	7.154E+001	3.242E+004						
Pm-147	40	32		Y	N	Y	3.891E+002	2013.12
	4.516E+001	3.439E+002						
Se-75	6	5		Y	N	Y	2.574E+001	2013.12
	7.280E-002	2.567E+001						
Sr-90	299			Y	N	Y	1.715E+002	2013.12
	1.715E+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	46	55	Y	N	Y	4.161E+003	2013.12
	1.421E+001	4.146E+003					
Am-241	8		Y	N	Y	1.008E+001	2013.12
	1.008E+001						
Ra-226	936	27	Y	N	Y	1.677E+002	2013.12
	1.091E+002	5.867E+001					