

## Site (Data) : RWTC

Stock of waste as at December 2011

Country: INDONESIA

Reporting Year: 2011

**Site Name:** RWTC

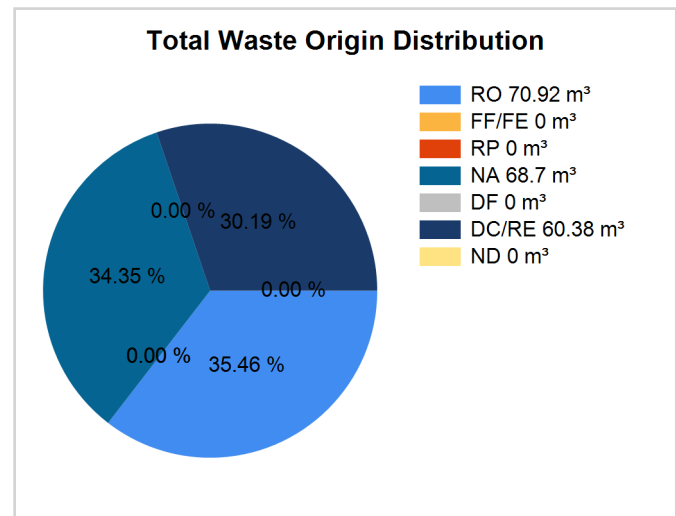
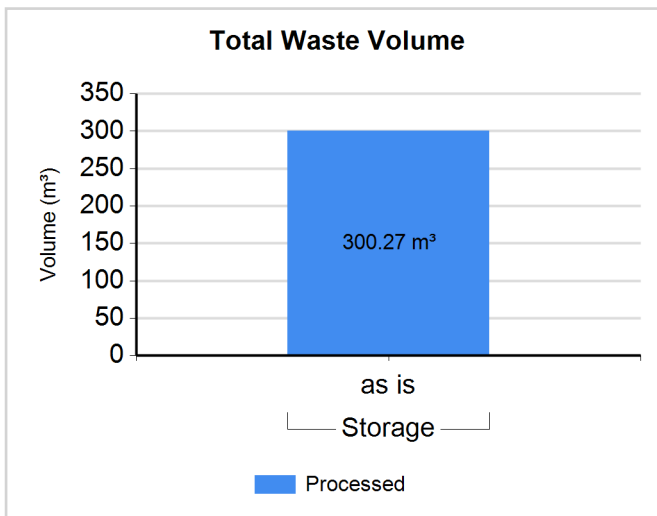
Full Name: Radioactive Waste Technology Center, BATAN

Inventory Reporting Date: December 2011

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	216.470	216.470	70.92	0.00	0.00	29.08	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
Membrane Technology	N	Y	Suspended	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	8			Y	N	Y	5.900E-002	2011.12
	5.900E-002							
Cf-252	6			Y	N	Y	2.650E+000	2011.12
	2.650E+000							
Cm-244	2	2		Y	N	Y	3.228E+001	2011.12
	1.827E+000	3.046E+001						
Co-60	119	125	6	Y	N	Y	7.403E+005	2011.12
	9.882E+000	4.130E+005	3.273E+005					
Cs-137	227	129	3	Y	N	Y	1.809E+005	2011.12
	1.621E+002	2.993E+004	1.508E+005					
Fe-55	11			Y	N	Y	2.398E+000	2011.12
	2.398E+000							
Ir-192	31	133		Y	N	Y	1.036E+003	2011.12
	1.373E-001	1.035E+003						
Kr-85	24	67		Y	N	Y	3.694E+004	2011.12
	7.660E+001	3.686E+004						
Pm-147	32	9		Y	N	Y	9.403E+001	2011.12
	5.353E+001	4.050E+001						
Se-75	6	2		Y	N	Y	1.812E+001	2011.12
	5.002E+000	1.311E+001						
Sr-90	278			Y	N	Y	1.636E+002	2011.11
	1.636E+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	45	46	Y	N	Y	4.057E+003	2011.12
	1.426E+001	4.043E+003					
Am-241	3		Y	N	Y	4.372E+000	2011.12
	4.372E+000						
Ra-226	936	27	Y	N	Y	1.679E+002	2011.12
	1.092E+002	5.872E+001					