

Site (Data) : AGE

Stock of waste as at December 2007

Country: ARGENTINA

Reporting Year: 2007

Site Name: AGE

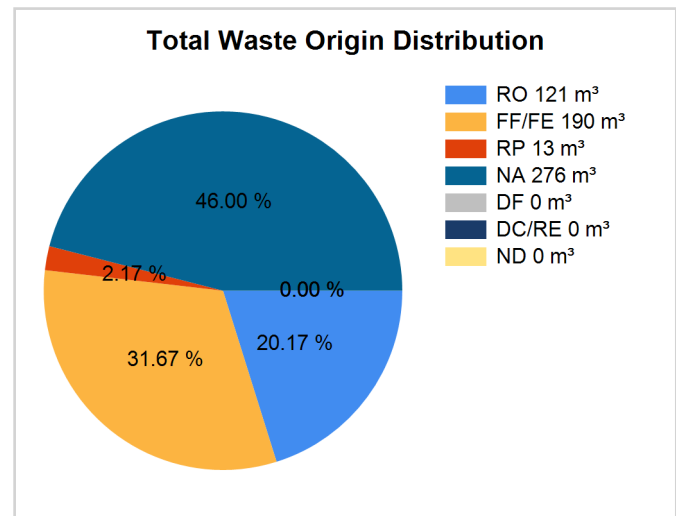
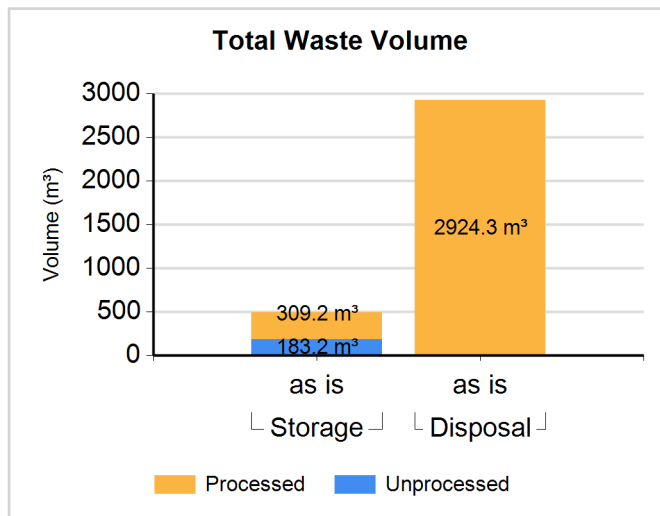
Full Name: EZEIZA WASTE MANAGEMENT AREA

Inventory Reporting Date: December 2007

Waste Matrix Used: IAEA Def.

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	Storage	N	Y	178.900	178.900	8.00	43.00	0.00	49.00	0.00	0.00	0.00
LILW-SL	Storage	Y	Y	286.200	286.200	43.00	29.00	0.00	28.00	0.00	0.00	0.00
LILW-SL	Disposal	Y	Y	2754.700	2754.700	68.00	1.00	0.00	31.00	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	Storage	N	Y	4.300	4.300	0.00	28.00	0.00	72.00	0.00	0.00	0.00
LILW-LL	Storage	Y	Y	23.000	23.000	0.00	43.00	0.00	57.00	0.00	0.00	0.00
LILW-LL	Disposal	Y	Y	169.600	169.600	2.00	46.00	13.00	39.00	0.00	0.00	0.00

Site (Data) : AGE

Stock of waste as at December 2007

Country: ARGENTINA

Reporting Year: 2007

Processing - Treatment method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Compaction	N	N	Same	N
Radionuclide Separation	N	N	Same	N
Solvent Extraction	Y	N		N

Comment # 7371: Radionuclide Separation

During 2005 an ion exchange process has been implemented in the Mo 99 production plant to separate cesium from the intermediate level waste stream. The cesium could be used to produce cesium source for braquitherapy.

Comment # 7372: Solvent extraction

A solvent extraction process was developed to decontaminate lubricant oils used in fuel elements fabrication. This process could be implemented in rutinary operation in the near future.

Comment # 14743: R&D: Waste Treatment

The chemical treatment of spent ion exchange resins by electromical methods is being studiied

Processing - Conditioning method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Cementation	Y	N		Y
Containerization	N	N	Same	N
Encapsulation	N	N	Suspended	N
Solidification	N	Y		N

Comment # 7373: Encapsulation

During 2001 to 2003 radium medical sources were encapsulated for long term storage.

Comment # 14742: Waste conditioning

The study of conditioning of LILRW in composite matrices and ceramic compounds is going to start as soon as possible.

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	5			N	Y	Y	9.700E-003	2006.12
	9.700E-003							
Cf-252	1			Y	N	Y	2.100E-002	2006.12
	2.100E-002							

Site (Data) : AGE

Stock of waste as at December 2007

Country: ARGENTINA

Reporting Year: 2007

Cf-252	9			N	Y	Y	1.700E-001	2007.12
	1.700E-001							
Cf-252	1			N	Y	Y	2.100E+000	2007.12
	2.100E+000							
Cm-244	1			Y	N	N	3.400E-003	2006.12
	3.400E-003							
Co-60		6		N	Y	Y	3.900E+002	2007.12
		3.900E+002						
Co-60	43			Y	N	Y	2.900E-001	2006.12
	2.900E-001							
Co-60	181			N	Y	Y	7.300E+000	2007.12
	7.300E+000							
Co-60	20	4		N	Y	Y	6.800E+001	2007.12
	1.700E+001	5.100E+001						
Co-60		109		N	Y	Y	3.500E+005	2007.12
		3.500E+005						
Co-60		4	7	N	Y	Y	9.900E+005	2007.12
		1.100E+005	8.800E+005					
Cs-137		2		Y	N	Y	8.500E+002	2006.12
		8.500E+002						
Cs-137		7		N	Y	Y	1.200E+003	2006.12
		1.200E+003						
Cs-137		6		N	Y	Y	1.400E+005	2006.12
		1.400E+005						
Cs-137	40			Y	N	Y	1.200E+001	2006.12
	1.200E+001							
Cs-137	64	45		Y	N	Y	1.220E+003	2006.12
	1.200E+002	1.100E+003						
Cs-137	226			N	Y	Y	5.800E+001	2007.12
	5.800E+001							

Site (Data) : AGE

Stock of waste as at December 2007

Country: ARGENTINA

Reporting Year: 2007

Cs-137	117	139		N	Y	Y	4.080E+003	2007.12
	3.800E+002	3.700E+003						
Cs-137			1	N	Y	Y	1.800E+005	2007.12
			1.800E+005					
Fe-55	16			N	Y	Y	5.400E+000	2006.12
	5.400E+000							
H-3	18	2		N	Y	Y	2.103E+004	2006.12
	2.900E+001	2.100E+004						
Ir-192	51			N	Y	Y	2.300E-002	2006.12
	2.300E-002							
Ir-192	117	125		Y	N	Y	1.310E+003	2006.12
	1.100E+002	1.200E+003						
Kr-85	22	28		N	Y	Y	3.900E+002	2007.12
	4.000E+001	3.500E+002						
Pm-147	4			Y	N	Y	1.300E+000	2006.12
	1.300E+000							
Pm-147	18			N	Y	Y	4.700E+000	2006.12
	4.700E+000							
Po-210	39			N	Y	Y	8.600E-007	2007.12
	8.600E-007							
Sr-90		1		N	Y	Y	1.300E+003	2007.12
		1.300E+003						
Sr-90	97	3		N	Y	Y	6.900E+001	2007.12
	4.700E+001	2.200E+001						
Sr-90		3		N	Y	Y	2.900E+002	2007.12
		2.900E+002						

Spent Sources > 30 years in Storage

Number of Sources/Total Activity of Sources (GBq)	
Group I less than or equal 2 GBq	Group II more than 2GBq

Site (Data) : AGE

Stock of waste as at December 2007

Country: ARGENTINA

Reporting Year: 2007

Nuclide	num/activity	num/activity	c	u	a	Total Activity for	Decay Date
Am-241		3	Y	N	Y	9.400E+002	2007.12
		9.400E+002					
Am-241		7	Y	N	Y	1.300E+002	2007.12
		1.300E+002					
Am-241	22		Y	N	Y	3.900E-001	2007.12
	3.900E-001						
Am-241		2	N	Y	Y	2.500E+003	2007.12
		2.500E+003					
Am-241		17	N	Y	Y	2.600E+003	2007.12
		2.600E+003					
Am-241	73	67	N	Y	Y	1.220E+003	2007.12
	1.200E+002	1.100E+003					
Am-241	1792		N	Y	Y	3.000E+000	2007.12
	3.000E+000						
Ni-63	53	12	N	Y	Y	8.600E+001	2007.12
	2.400E+001	6.200E+001					
Pu-238	1		N	Y	Y	8.800E-001	2007.12
	8.800E-001						
Pu-238		20	N	Y	Y	1.500E+003	2007.12
		1.500E+003					
Ra-226	731		Y	N	Y	2.300E+002	2007.12
	2.300E+002						
Ra-226	84		Y	N	Y	8.200E+000	2007.12
	8.200E+000						
Ra-226	97		N	Y	Y	5.500E+001	2007.12
	5.500E+001						
Ra-226	49		N	Y	Y	2.300E+000	2007.12
	2.300E+000						