

Site (Data) : AGE

Stock of waste as at December 2011

Country: ARGENTINA

Reporting Year: 2011

Site Name: AGE

Full Name: AREA DE GESTION DE RESIDUOS RADIOACTIVOS EZEIZA.

Inventory Reporting Date: December 2011 Waste Matrix Used: IAEA Def.

Comment # 26981: Disposal units

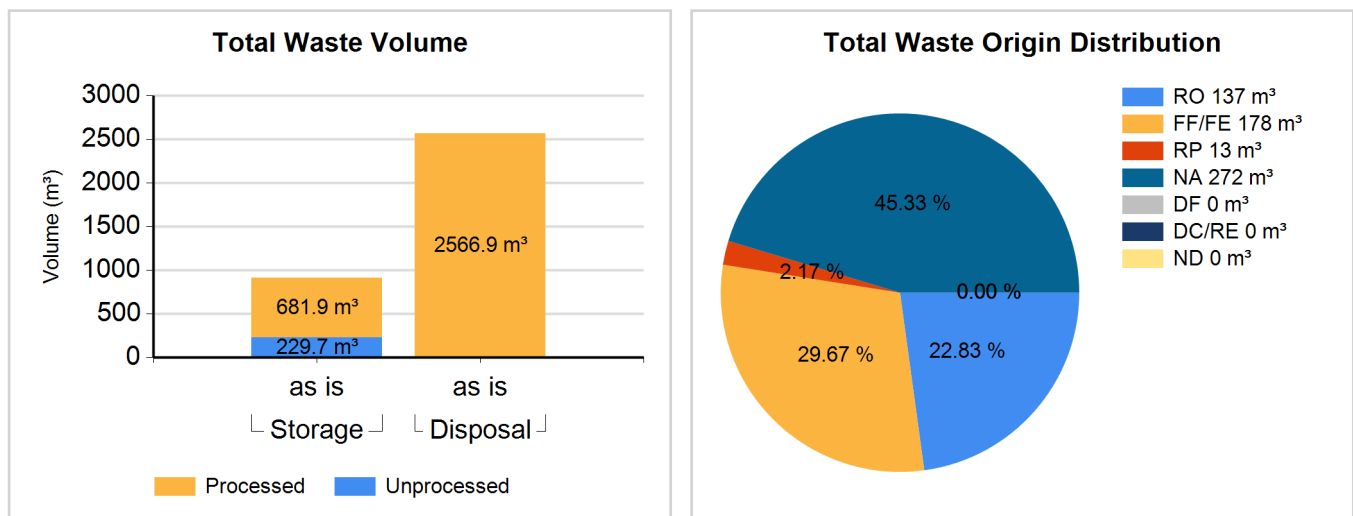
Two trenches for conditioned waste in drums and two silos for disposal of structural radioactive wastes and sealed sources.

Comment # 26984: Institutional Framework

The ARN (Autoridad Regulatoria Nuclear) is an independent public sector agency under the jurisdiction of the Office of the President, which is responsible, in accordance with section 7 of the Law, for the regulation and supervision of nuclear activities in all matters related to nuclear and radiological safety, physical protection and control of the use of nuclear materials, licensing and surveillance of nuclear facilities and international safeguards, including management of radioactive wastes.

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	N	Y	225.400	225.400	8.00	43.00	0.00	49.00	0.00	0.00	0.00
LLW	Storage	Y	Y	658.900	658.900	61.00	17.00	0.00	22.00	0.00	0.00	0.00
LLW	Disposal	Y	Y	2397.300	2397.300	66.00	1.00	0.00	33.00	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	N	Y	4.300	4.300	0.00	28.00	0.00	72.00	0.00	0.00	0.00
ILW	Storage	Y	Y	23.000	23.000	0.00	43.00	0.00	57.00	0.00	0.00	0.00
ILW	Disposal	Y	Y	169.600	169.600	2.00	46.00	13.00	39.00	0.00	0.00	0.00

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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

Processing - Conditioning method(s)

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

Comment

7373: ACONDICIONAMIENTO FUENTES DE RADIO DE USO MEDICO

LAS FUENTES DE RADIO DE USO MEDICO FUERON ACONDICIONADAS PARA SU ALMACENAMIENTO PROLONGADO DURANTE LOS AÑOS 2001 - 2003..

Spent Sources <=30 years in Storage

Nuclide	Number of Sources/Total Activity of Sources (GBq)			c	u	c	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	1			N	Y	Y	7.170E-006	2011.12
	7.170E-006							
Cf-252	9			N	Y	Y	5.920E-002	2011.12
	5.920E-002							
Cf-252	1			N	Y	Y	7.100E-001	2011.12
	7.100E-001							
Cm-244		1		N	Y	Y	7.100E+000	2011.12
		7.100E+000						
Co-57	6			N	Y	Y	3.540E-008	2011.12
	3.540E-008							

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Co-60		132		N	Y	Y	3.610E+010	2011.12
		3.610E+010						
Co-60		9	11	N	Y	Y	9.670E+005	2011.12
		3.000E+005	6.670E+005					
Co-60		7		N	Y	Y	3.220E+002	2011.12
		3.220E+002						
Co-60	43			Y	N	Y	1.530E-001	2011.12
	1.530E-001							
Co-60	249			N	Y	Y	7.600E+000	2011.12
	7.600E+000							
Co-60	37	6		N	Y	Y	5.340E+001	2011.12
	2.030E+001	3.310E+001						
Cs-137	380			N	Y	Y	9.260E-001	2011.12
	9.260E-001							
Cs-137	174	179		N	Y	Y	3.538E+003	2011.12
	1.243E+001	3.526E+003						
Cs-137		6		N	Y	Y	1.210E+005	2011.12
		1.210E+005						
Cs-137		9		N	Y	Y	1.360E+003	2011.12
		1.360E+003						
Cs-137	2			Y	N	Y	7.540E+000	2011.12
	7.540E+000							
Cs-137	40			Y	N	Y	9.850E+000	2011.12
	9.850E+000							
Cs-137	64	45		Y	N	Y	1.074E+003	2011.12
	1.117E+002	9.627E+002						
Cs-137			1	N	Y	Y	1.680E+005	2011.12
			1.680E+005					
Fe-55	24			N	Y	Y	2.740E+000	2011.12
	2.740E+000							

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Gd-153	1			N	Y	Y	7.300E-002	2011.12
	7.300E-002							
Ge-68	8			N	Y	Y	1.030E-001	2011.12
	1.030E-001							
H-3	20	2		N	Y	Y	1.613E+004	2011.12
	2.540E+001	1.610E+004						
I-125	926			N	Y	Y	1.640E+000	2011.12
	1.640E+000							
Ir-192	3			N	Y	Y	1.350E+000	2011.12
	1.350E+000							
Ir-192	229	231		N	Y	Y	6.041E+001	2011.12
	6.810E-003	6.040E+001						
Kr-85	70	63		N	Y	Y	7.996E+003	2011.12
	4.630E+001	7.950E+003						
Na-22	2			N	Y	Y	1.250E-003	2011.12
	1.250E-003							
Pm-147	4			Y	N	Y	3.520E-001	2011.12
	3.520E-001							
Pm-147	21			N	Y	Y	3.290E+000	2011.12
	3.290E+000							
Sr-90	162			N	Y	Y	1.010E+001	2011.12
	1.010E+001							
Sr-90		1		N	Y	Y	1.211E+003	2011.12
		1.211E+003						
Sr-90		4		N	Y	Y	2.610E+002	2011.12
		2.610E+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

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Nuclide	num/activity	num/activity	c o	u n	c a	Total Activity for	Decay Date
Am-241	32	37	N	Y	Y	5.651E+002	2011.12
	3.910E+001	5.260E+002					
Am-241	3		N	Y	Y	1.090E+000	2011.12
	1.090E+000						
Am-241	9	177	N	Y	Y	1.400E+003	2011.12
	9.630E+000	1.390E+003					
Am-241	4923		N	Y	Y	6.400E+003	2011.12
	6.400E+003						
Am-241	22		Y	N	Y	3.990E-001	2011.12
	3.990E-001						
Am-241		2	N	Y	Y	2.160E+003	2011.12
		2.160E+003					
Am-241		1	N	Y	Y	1.100E+002	2011.12
		1.100E+002					
Am-241		3	Y	N	Y	9.380E+002	2011.12
		9.380E+002					
Am-241		7	Y	N	Y	1.300E+002	2011.12
		1.300E+002					
Am-241		2	N	Y	Y	2.500E+003	2011.12
		2.500E+003					
Am-241		17	N	Y	Y	2.600E+003	2011.12
		2.600E+003					
Ni-63	86	12	N	Y	Y	9.580E+001	2011.12
	3.380E+001	6.200E+001					
Pu-238	1		N	Y	Y	9.000E-001	2011.12
	9.000E-001						
Pu-238		1	N	Y	Y	6.960E+001	2011.12
		6.960E+001					

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Ra-226	97	1	N	Y	Y	6.240E+001	2011.12
	5.500E+001	7.400E+000					
Ra-226	731		Y	N	Y	2.300E+002	2011.12
	2.300E+002						
Ra-226	84		Y	N	Y	8.200E+000	2011.12
	8.200E+000						
Ra-226	151		N	Y	Y	7.430E+000	2011.12
	7.430E+000						