

Site (Structure) : AGE

Country: ARGENTINA

Reporting Year: 2007

Full Name: EZEIZA WASTE MANAGEMENT AREA

Location: EZEIZA ATOMIC CENTER
BUENOS AIRES PROVINCE

Description:

Official Website:

License Holder(s): PEDRO SOTO
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Waste management facilities that are located at this site:

Facility:	COMPACTOR												
Description:	This plant is used to compact low-level solid waste in 200 liter drums. A 16-ton hydraulic press is used to reduce the waste volume by a factor of 5.												
<p>Processing part of facility COMPACTOR</p> <p>The following shows processing status for waste classes and SRS.</p> <table border="1"> <thead> <tr> <th>Waste Class</th> <th>Actual</th> <th>Planned</th> </tr> </thead> <tbody> <tr> <td>LILW-SL</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>LILW-LL</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>HLW</td> <td>No</td> <td>No</td> </tr> </tbody> </table>		Waste Class	Actual	Planned	LILW-SL	Yes	Yes	LILW-LL	Yes	Yes	HLW	No	No
Waste Class	Actual	Planned											
LILW-SL	Yes	Yes											
LILW-LL	Yes	Yes											
HLW	No	No											
Type:	Treatment, Conditioning												
Year opened:	1973												

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Facility:	CP
Description:	Concrete Pits. This facility is considered an alternative for the management of low-impact solid waste that according to its activity or geometry can not be disposed of in the existing trenches. Historic wastes have been disposed of in them.

Disposal part of facility CP

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
LILW-SL	Yes	No
LILW-LL	Yes	No
HLW	No	No

List SRS?	No
List UMMT?	No

Type:	borehole		
Facility is modular?	Yes		
Capacity existing (m3):	240	Capacity planned (m3):	240

Depth (m):	10	Host medium:	sedimentary (other)
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Phase Name	Start Year	End Year	Estimate
design	1968	1970	True
construction	1968	1971	True
commissioning	1968	1972	True
operation	1969	2001	False

Comment # 7253: CP Comments

The system comprises two underground pits (4m diameter and 10m deep) with 30cm thick reinforced concrete side walls and bottom. Wastes disposed of in this system are usually metal parts from contaminated areas. Periodically, concrete is poured inside the pits in order to immobilize the contaminated materials and reduce the dose rate at the top.

The first pit was commissioned in 1972 and was operated until 1995, while the second was in operation from 1999 to 2001, when the safety re-assessment of the complete AGE was commenced. The first pit operated without an Operating License and therefore the wastes in it are considered historic.

In addition, there are another two previous and smaller pits with historic wastes.

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Facility:	DS					
Description:	200 liters waste packages from nuclear power plants that couldn't be disposed of in the LLSWT system have been stored in marine containers.					
Storage part of facility		DS				
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
LILW-SL	Yes	No				
LILW-LL	No	No				
HLW	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:	513 drums have been stored in marine containers.					
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
DS	mound	1998	Yes	No	No	No

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Facility:	IRWS
Description:	Infected Radioactive Waste Storage. It is a new facility licensed during 2004 to store 50-liter drums.

Storage part of facility **IRWS**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
LILW-SL	Yes	Yes
LILW-LL	No	No
HLW	No	No

List SRS?	No
List UMMT?	No

Capacity:	The capacity of the storage is about 200 m3.
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
IRWS	building	2004	No	No	No	No

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Facility:	LLLWT
Description:	There are three semi-containment trenches for low-activity liquid wastes. This facility has been designed for very low-level liquid waste that were not able to be directly discharged as effluents.

Disposal part of facility **LLLWT**

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
LILW-SL	Yes	No
LILW-LL	No	No
HLW	No	No

List SRS?	No
List UMMT?	No

Type:	trench(es)		
Facility is modular?	Yes		
Capacity existing (m3):	1200	Capacity planned (m3):	1200

Depth (m):	3	Host medium:	sedimentary (other)
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Phase Name	Start Year	End Year	Estimate
design	1968	1970	True
construction	1968	1971	True
commissioning	1971	1971	True
operation	1971	2001	False

Comment **# 7251: LLLWT Comments**

The system comprises three ionic exchange beds formed by selected soil mixtures with a larger proportion of calcareous silts and sand added to improve the process efficiency. These soils allow radionuclides with very short half-life periods to decay to non significant levels during their stay in the bed mass. The operating capacity for each one of these systems is approximately 2 m3/day. A network of phreatometers allows periodical groundwater control. The systems were commissioned in 1971. Two units ended operations in 1986, while the third unit was functioning until the year 2001 when the safety re-assessment of the complete AGE was commenced. In view of the fact that the Operating license of these systems was not granted by ARN until 1995, all liquid wastes disposed of before 1995 are considered historic.

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Facility:	LLSWT
Description:	Trench N°1 (700m3) was closed in 1988 with some historic waste in it. Trench N°2 (1120m3) started operation in 1989. It has been licensed to dispose of 200 liter drums with compacted solid waste, cemented liquid waste, and conditioned SRS.

Disposal part of facility LLSWT

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
LILW-SL	Yes	No
LILW-LL	Yes	No
HLW	No	No

List SRS?	No
List UMMT?	No

Type:	trench(es)		
Facility is modular?	Yes		
Capacity existing (m3):	1820	Capacity planned (m3):	1820

Depth (m):	1.2	Host medium:	sedimentary (other)
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Phase Name	Start Year	End Year	Estimate
design	1974	1988	False
construction	1974	1988	False
commissioning	1974	1988	False
operation	1975		False
EVENT: operation suspended	2001		False

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Comment **# 7183: LLSWT Comments**

The first trench was built in natural soil without any type of engineered improvement.

The second trench was commissioned in 1989 and only one third of the total capacity is covered. This second trench was operated without license until 1995, and for that reason all the wastes disposed until that date are considered historic.

This second trench was built in a selected calcareous-silty soil compacted to 98% of its maximum theoretical value, supporting a leveled broken stone bed with slopes toward both sides and 30cm thick concrete perimeter retaining walls. The rain water drainage system prevents water accumulation around drum bases. Coverage of the first trench's last section as well as the second trench's first third were made using the same engineering concept. The operation of trench N° 2 has been formally suspended since 2001 after three years without having located drums in it. Currently, a facility safety re-assessment is being performed.

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Facility:	M1
Description:	This facility is used for storing Intermediate-level waste, long-lived low-level waste, and also spent/disused radiation sources that according to the operation license can not be disposed of in the disposal facilities.

Storage part of facility M1

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
LILW-SL	Yes	Yes
LILW-LL	Yes	Yes
HLW	No	No

List SRS?	Yes
List UMMT?	No

Capacity:	The facility was licensed in 1999. It is 60m long, 20m wide and 10m high. The building includes a traveling crane with 3 ton main hook and 2 ton secondary hook and a controlled ventilation system.
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
M1	building	2000	No	No	No	Yes

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Facility:	TN					
Description:	The Reception and Handling Yard was conceived for reception, control and administration of wastes received or produced in its own area. The semi-covered yard comprises an 800m2 reinforced concrete platform fenced on two sides by brick walls.					
Storage part of facility		TN				
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
LILW-SL	Yes	Yes				
LILW-LL	Yes	Yes				
HLW	No	No				
List SRS?	Yes					
List UMMT?	No					
Capacity:	The yard use was authorized in 1994. At this time, it is also being used as a temporary storage.					
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
TN	concrete pad	1989	No	No	No	Yes