

Site (Structure) : EL CABRIL

Country: SPAIN

Reporting Year: 2013

Full Name: INSTALACION DE ALMACENAMIENTO DE RESIDUOS DE BAJA Y MEDIA ACTIVIDAD DE SIERRA ALBARRANA (EL CABRIL LILW DISPOSAL FACILITY)

Waste storage installation of low and intermediate level waste. Albarrana SAW (The disposal facility CABRIL LILW)

Description:

Official Website:

License Holder(s): The owner and operator of the facility is ENRESA (Empresa Nacional de Residuos Radiactivos S.A.), a State owned company set up in 1984 by the Spanish Government to manage all types of radioactive wastes arising from Spanish nuclear facilities.

Waste management facilities that are located at this site:

Facility:	BLOQ	
Description:	FACILITY FOR PLACING THE WASTE PACKAGES IN CONCRETE CONTAINER AND GROUTING TO IMMOBILIZE	
Processing part of facility	BLOQ	
The following shows processing status for waste classes and SRS.		
Waste Class	Actual	Planned
RBBA	No	No
RBMA	Yes	No
RAA	No	No
RE	No	No
Type:	Conditioning	
Year opened:	1993	

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Facility:	COMP															
Description:	SUPERCOMPACTOR															
Processing part of facility	COMP															
The following shows processing status for waste classes and SRS.																
<table border="1"><thead><tr><th>Waste Class</th><th>Actual</th><th>Planned</th></tr></thead><tbody><tr><td>RBBA</td><td>Yes</td><td>No</td></tr><tr><td>RBMA</td><td>Yes</td><td>No</td></tr><tr><td>RAA</td><td>No</td><td>No</td></tr><tr><td>RE</td><td>No</td><td>No</td></tr></tbody></table>	Waste Class	Actual	Planned	RBBA	Yes	No	RBMA	Yes	No	RAA	No	No	RE	No	No	
Waste Class	Actual	Planned														
RBBA	Yes	No														
RBMA	Yes	No														
RAA	No	No														
RE	No	No														
Type:	Treatment															
Year opened:	1993															

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Facility:	COND BLG
Description:	CAFACITY USED AS BUFFER

Storage part of facility **COND BLG**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
RBBA	No	No
RBMA	Yes	No
RAA	No	No
RE	No	No

List SRS?	No
List UMMT?	No

Capacity:	
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
BUFFER	building	1993	No	No	No	No

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Facility:	ERT					
Description:						
Storage part of facility	ERT					
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
RBBA	No	No				
RBMA	Yes	No				
RAA	No	No				
RE	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:						
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
ERT	building	1993	No	No	No	No

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Facility:	INC															
Description:	INCINERATOR															
Processing part of facility	INC															
The following shows processing status for waste classes and SRS.																
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Waste Class	Actual	Planned														
RBBA	No	No														
RBMA	Yes	No														
RAA	No	No														
RE	No	No														
Type:	Treatment															
Year opened:	1993															

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Facility:	IR ZONE
Description:	DIFFERENT STORES FOR RECEPTION OF MIR WASTES

Storage part of facility**IR ZONE**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
RBBA	No	No
RBMA	Yes	No
RAA	No	No
RE	No	No

List SRS?	No
List UMMT?	No

Capacity:	
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
RECEPTION	building	1992	No	No	No	Yes

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Facility:	LILW CELDA
Description:	NEAR SURFACE DISPOSAL WITH ENGINEERED BARRIERS. WASTE PLACED IN REINFORCED CONCRETE CONTAINERS IN THE DISPOSAL CELLS
Detailed Facility Description:	<p>The disposal area of the Centre consists of two esplanades or platforms housing the disposal structures. The North platform houses 16 structures and the South platform 12, arranged in two rows. Type and number of disposal units:</p> <p>Altogether there are 28 vaults;</p> <p>Dimensions: one vault has dimensions 22.5 m x 18 m x 9 m;</p> <p>Capacity: 3,650 m³;</p> <p>Barriers: Bottom of the vault is of watertight reinforced concrete, allowing collection and drainage via a system of pipes installed in an accessible gallery running below the support plates; side walls and the upper closure slab is also of reinforced concrete.</p>
Waste Packages:	<p>The typical primary waste package is the 0.22 m³ metallic drum. The type of container more frequently used has external dimensions of 2.25 x 2.25 x 2.20 m and houses 18 drums.</p> <p>LILW of the following types: (a) solid or solidified wastes (resins, filters, evaporator concentrates, filtration sludges) from the operation of nuclear facilities, (b) solid technological wastes (gloves, tools) from the operation and dismantling of nuclear facilities, (c) miscellaneous solids and liquids from the application of radioisotopes at radioactive industrial, medical and research facilities, and (d) secondary solid or liquid wastes from the activities performed at El Cabril</p>
Facility Operation:	<p>The operating structures are protected by a mobile roof, for which rails have been installed along each row for its displacement. The roofing structure also supports the maintenance system. After being accepted, all primary waste packages are transported to the El Cabril facility by road and shipped to the facility for subsequent treatment and conditioning. Conditioned and packaged wastes are emplaced into the disposal structures; once the vault is filled, the gaps between containers are filled with gravel and sealed with a reinforced concrete slab that will isolate the wastes contained till the long-term coverage is provided after the conclusion of the disposal operations in the centre.</p>
Financing:	The financing scheme in force establishes the setting up of a fund for financing of the activities covered by the General Radioactive Waste Plan.

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Disposal part of facility**LILW CELDA**

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
RBBA	No	No
RBMA	Yes	No
RAA	No	No
RE	No	No

List SRS?	No
List UMMT?	No

Type:	engineered surface		
Facility is modular?	No		
Capacity existing (m3):	50000	Capacity planned (m3):	50000

Depth (m):	9	Host medium:	sedimentary rock (consolidated clay)
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Phase Name	Start Year	End Year	Estimate
planning and/or concept assessment	1986	1987	False
site selection	1986	1987	False
design	1988	1989	False
construction	1989	1992	False
commissioning	1992	1992	False
operation	1993	0	False
closure	2024	0	True
institutional control	2324	0	True

Comment

23037: capacity

The total capacity of the 28 vaults is for 100,000 m3 equivalent to around 50,000 m3 as delivered by the producers

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Facility:	MODULOS					
Description:						
Storage part of facility		MODULOS				
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
RBBA	Yes	No				
RBMA	Yes	No				
RAA	No	No				
RE	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:	This facility (three warehouses) is used to store legacy packages pending for characterization for acceptance and transfer to the disposal centre.					
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
MODULOS	building	1982	No	No	No	Yes

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Facility:	TECNOLOGIC
Description:	PROVIDING SERVICES FOR CONDITIONING AND BUFFER STORAGE OF VLLW PACKAGES

Storage part of facility TECNOLOGIC

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
RBBA	No	No
RBMA	No	No
RAA	No	No
RE	No	No

List SRS?	No
List UMMT?	No

Capacity:	BUFFER STORAGE
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
ALMACEN	building	2007	No	No	No	No

Processing part of facility TECNOLOGIC

The following shows processing status for waste classes and SRS.

Waste Class	Actual	Planned
RBBA	Yes	No
RBMA	No	No
RAA	No	No
RE	No	No

Type:	Conditioning
Year opened:	2008

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Facility:	VLLW CELDA
Description:	DEDICATED AREA FOR DISPOSAL OF VLLW PACKAGES

Disposal part of facility VLLW CELDA

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
RBBA	Yes	No
RBMA	No	No
RAA	No	No
RE	No	No

List SRS?	No
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	Yes		
Capacity existing (m3):	35000	Capacity planned (m3):	120000

Depth (m):	10	Host medium:	sedimentary (other)
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Phase Name	Start Year	End Year	Estimate
site selection	2002		False
design	2003	2004	False
construction	2005	2007	False
commissioning	2003	2006	False
operation	2007	2038	True
closure	2039	2039	True
institutional control	2040	2100	True