



Country Waste Profile Report for SPAIN Reporting Year: 2009

*For guidance on reading Country Waste Profile Reports,
please refer to the following internet based document:*

<http://www-newmdb.iaea.org/help/profiles9/guide.pdf>

*For further information, please contact the Responsible Officer via e-mail:
NEWMDB@IAEA.org*

Waste Classification Schemes

Country: SPAIN

Reporting Year: 2009

Waste Class Matrix: **IAEA Def.**

This country does use the IAEA Scheme: No

Description: The Agency's standard matrix

Waste Class Name	Distribution %			
	VLLW	LLW	ILW	HLW
VLLW	100.0	0.0	0.0	0.0
LLW	0.0	100.0	0.0	0.0
ILW	0.0	0.0	100.0	0.0
HLW	0.0	0.0	0.0	100.0

Comment **# 132: use of the IAEA Def matrix**

The CSN (see Regulators) is the only body in Spain responsible for radiation protection and nuclear safety, regardless of the type of radioactive material or waste. Thus, the CSN has competence over all type of waste (Matrix IAEA Def.- LILW-SL, LILW-LL, HLW).

The Ministry of Industry, Tourism and Trade is responsible for defining the policy and for establishing the regulations on radioactive waste, so it has competence over all type of waste (Matrix IAEA Def.- LILW-SL, LILW-LL, HLW).

Comment **# 349: explanation of classes used**

Although no explicit definition exists for LILW-SL in regulations currently in force, limits are defined according to the safety objectives set by safety authorities for El Cabril near surface disposal facility.

Other waste exceeding these limits can be associated as LILW-LL and should be managed in a different way.

Waste Class Matrix: **SPAIN**

Yes

Description: RBBA = "residuos de muy baja actividad"
 RBMA = "residuos de baja y media actividad"
 RAA = "residuos de alta actividad"

Waste Class Name	Distribution %			
	VLLW	LLW	ILW	HLW
RBBA	100.0	0.0	0.0	0.0
RBMA	0.0	95.0	5.0	0.0
RAA	0.0	0.0	0.0	100.0

Definition of «unprocessed waste» and «processed waste»:

This country uses the IAEA standard definition:

	as-generated waste	processed for handling	processed for storage	processed for disposal
Unprocessed means:	x			
Processed means:		x	x	x

Groups Overview

Country: SPAIN

Reporting Year: 2009

Reporting Group:	CCNN
Inventory Reporting Date:	December 2009
Waste Matrix Used:	SPAIN
Description:	NUCLEAR POWER PLANTS (CENTRALES NUCLEARES)

Site Name	Facility Name	Facilities Defined		
ALMARAZ	RBMA	processing	storage	
ASCO	RBMA	processing	storage	
COFRENTES	RBMA	processing	storage	
GAROÑA	RBMA	processing	storage	
TRILLO	RBMA	processing	storage	
VANDELLOS	RBMA	processing	storage	
ZORITA	RBMA	processing	storage	

Reporting Group:	CIEMAT
Inventory Reporting Date:	December 2009
Waste Matrix Used:	SPAIN
Description:	CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS (NATIONAL RESEARCH CENTRE FOR ENERGY AND ENVIRONMENT RELATED TECHNOLOGIES)

Site Name	Facility Name	Facilities Defined		
CIEMAT	RMBA	processing	storage	

Groups Overview

Country: SPAIN

Reporting Year: 2009

Reporting Group:	ENRESA
Inventory Reporting Date:	December 2009
Waste Matrix Used:	SPAIN
Description:	National Waste Management Company

Site Name	Facility Name	Facilities Defined		
EL CABRIL	BLOQ	processing		
	COMP	processing		
	COND BLG		storage	
	ERT		storage	
	INC	processing		
	IR ZONE		storage	
	LILW CELDA			disposal
	MODULOS		storage	
	TECNOLOGIC	processing	storage	
	VLLW CELDA			disposal
VANDELLOS	VANDELLOS		storage	

Reporting Group:	ENUSA
Inventory Reporting Date:	December 2009
Waste Matrix Used:	SPAIN
Description:	EMPRESA NACIONAL DEL URANIO S.A. (URANIUM NATIONAL COMPANY S.A.)

Site Name	Facility Name	Facilities Defined		
Juzbado	RMBA	processing	storage	

Site (Structure) : ALMARAZ

Country: SPAIN

Reporting Year: 2009

Full Name: CENTRAL NUCLEAR DE ALMARAZ (ALMARAZ NPP)

Description:

Official Website:

License Holder(s): IBERDROLA GENERACION S.A. (52,7%); ENDESA GENERACION S.A. (36%)
AND UNION FENOSA GENERACION S.A. (11,3%) / CENTRALES NUCLEARES
ALMARAZ-TRILLO, A.I.E. / CENTRALES NUCLEARES ALMARAZ-TRILLO, A.I.E.
IBERDROLA GENERACION S.A. (52,7%); ENDESA GENERACION S.A. (36%)
AND UNION FENOSA GENERACION S.A. (11,3%) / CENTRALES NUCLEARES
ALMARAZ-TRILLO, A.I.E. / CENTRALES NUCLEARES ALMARAZ-TRILLO, A.I.E.

Waste management facilities that are located at this site:

Site (Structure) : ALMARAZ

Country: SPAIN

Reporting Year: 2009

Facility:	RBMA
Description:	Low and Intermediate level waste management facility

Storage part of facility RBMA

The following shows storage status for waste classes and SRS.

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

List SRS?	No
List UMMT?	No

Capacity:	Buffer storage for subsequent disposal
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
ALMACEN	building	1983	No	No	No	No

Processing part of facility RBMA

The following shows processing status for waste classes and SRS.

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

Type:	Treatment, Conditioning
Year opened:	1981

Site (Data) : ALMARAZ

Stock of waste as at December 2009

Country: SPAIN

Reporting Year: 2009

Site Name: ALMARAZ

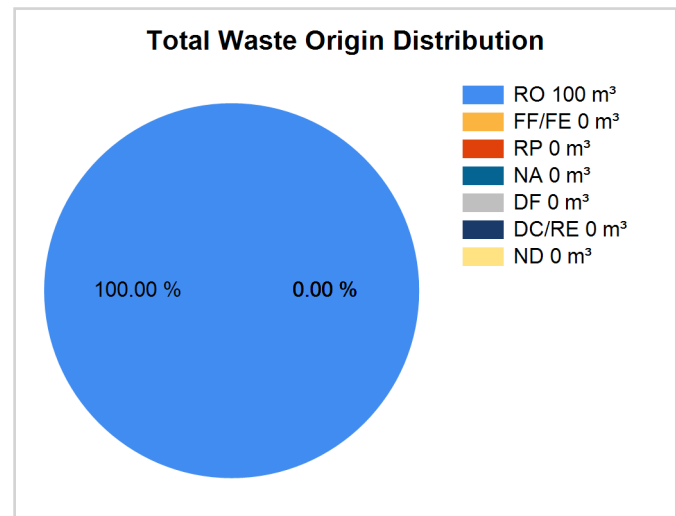
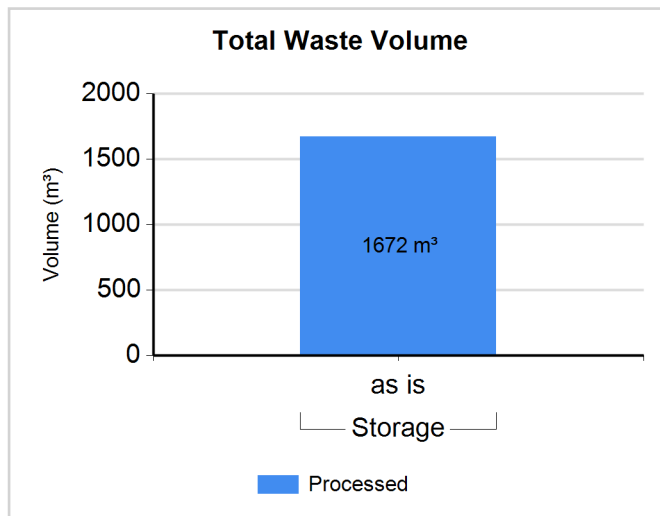
Full Name: CENTRAL NUCLEAR DE ALMARAZ (ALMARAZ NPP)

Inventory Reporting Date: December 2009

Waste Matrix Used: SPAIN

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: RBMA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
RBMA	Storage / RBMA	Y	N	1672.000	1672.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Processing - Treatment method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Carbon Adsorption	N	N	Same	N
Compaction	N	N	Increase	N
Decontamination	N	N	Same	N
Evaporation	N	N	Same	N
Filtration	N	N	Same	N
Ion Exchange	N	N	Same	N
Size Reduction	N	N	Increase	N

Site (Data) : ALMARAZ

Stock of waste as at December 2009

Country: SPAIN

Reporting Year: 2009

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

Site (Structure) : ASCO

Country: SPAIN

Reporting Year: 2009

Full Name: CENTRAL NUCLEAR DE ASCO (ASCO I-II NPP)

Description:

Official Website:

License Holder(s):

ASCO 1: ENDESA GENERACIÓN S.A.
ASCO 2: ENDESA GENERACION S.A (85%), IBERDROLA GENERACION S.A. (15 %)
/ ASOCIACION NUCLEAR ASCO-VANDELLOS II, A.I.E.

ASCO 1: ENDESA GENERACIÓN S.A.
ASCO 2: ENDESA GENERACION S.A (85%), IBERDROLA GENERACION S.A. (15 %)
/ ASOCIACION NUCLEAR ASCO-VANDELLOS II, A.I.E.

Waste management facilities that are located at this site:

Site (Structure) : ASCO

Country: SPAIN

Reporting Year: 2009

Facility:	RBMA
Description:	LILW

Storage part of facility RBMA

The following shows storage status for waste classes and SRS.

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

List SRS?	No
List UMMT?	No

Capacity:	Buffer storage for subsequent disposal
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
ALMACEN	building	1983	No	No	No	Yes

Processing part of facility RBMA

The following shows processing status for waste classes and SRS.

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

Type:	Treatment, Conditioning
Year opened:	1983

Site (Data) : ASCO

Stock of waste as at December 2009

Country: SPAIN

Reporting Year: 2009

Site Name: ASCO

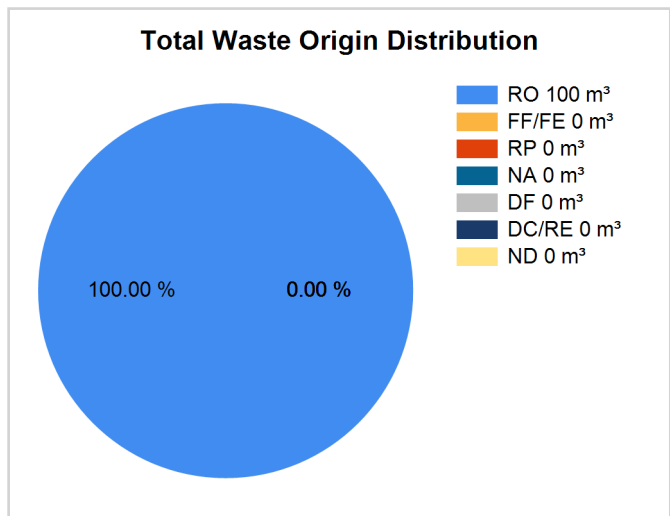
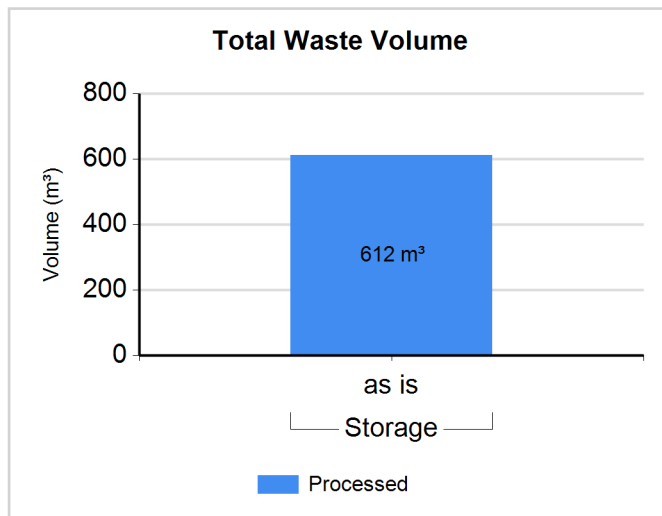
Full Name: CENTRAL NUCLEAR DE ASCO (ASCO I-II NPP)

Inventory Reporting Date: December 2009

Waste Matrix Used: SPAIN

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: RBMA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
RBMA	Storage	Y	N	612.000	612.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Processing - Treatment method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Carbon Adsorption	N	N	Same	N
Compaction	N	N	Increase	N
Decontamination	N	N	Same	N
Evaporation	N	N	Same	N
Filtration	N	N	Same	N
Ion Exchange	N	N	Same	N
Size Reduction	N	N	Increase	N

Site (Data) : ASCO

Stock of waste as at December 2009

Country: SPAIN

Reporting Year: 2009

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

Site (Structure) : COFRENTES

Country: SPAIN

Reporting Year: 2009

Full Name: CENTRAL NUCLEAR DE COFRENTES (COFRENTES NPP)

Description:

Official Website:

License Holder(s): IBERDROLA GENERACION S.A.

Waste management facilities that are located at this site:

Facility:	RBMA
Description:	LILW

Storage part of facility RBMA

The following shows storage status for waste classes and SRS.

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

List SRS?	No
List UMMT?	No

Capacity:	Buffer storage for subsequent disposal
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
ALMACEN	building	1984	No	No	No	No

Processing part of facility RBMA

The following shows processing status for waste classes and SRS.

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

Type:	Treatment, Conditioning
Year opened:	1984

Site (Data) : COFRENTES

Stock of waste as at December 2009

Country: SPAIN

Reporting Year: 2009

Site Name: COFRENTES

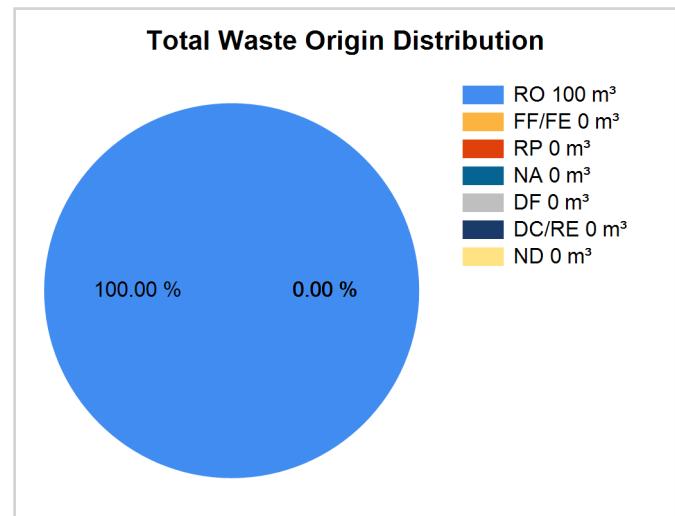
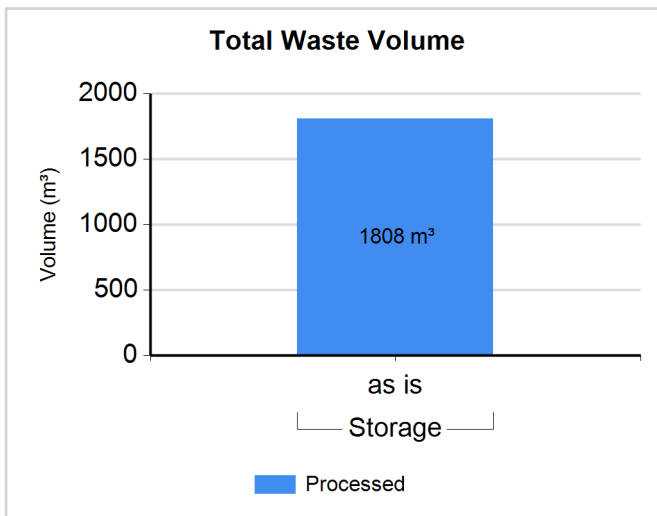
Full Name: CENTRAL NUCLEAR DE COFRENTES (COFRENTES NPP)

Inventory Reporting Date: December 2009

Waste Matrix Used: SPAIN

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: RBMA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
RBMA	Storage	Y	N	1808.000	1808.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Processing - Treatment method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Carbon Adsorption	N	N	Same	N
Compaction	N	N	Increase	N
Decontamination	N	N	Same	N
Evaporation	N	N	Same	N
Filtration	N	N	Same	N
Ion Exchange	N	N	Same	N
Size Reduction	N	N	Increase	N

Site (Data) : COFRENTES

Stock of waste as at December 2009

Country: SPAIN

Reporting Year: 2009

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

Site (Structure) : GAROÑA

Country: SPAIN

Reporting Year: 2009

Full Name: CENTRAL NUCLEAR SANTA MARIA DE GAROÑA (SANTA MARIA DE GAROÑA NPP)

Description:

Official Website:

License Holder(s): NUCLENOR S.A.(IBERDROLA GENERACION S.A. (50%); ENDESA GENERACION, S.A. 50%) / NUCLENOR S.A.
NUCLENOR S.A.(IBERDROLA GENERACION S.A. (50%); ENDESA GENERACION, S.A. 50%) / NUCLENOR S.A.

Waste management facilities that are located at this site:

Site (Structure) : GAROÑA

Country: SPAIN

Reporting Year: 2009

Facility:	RBMA
Description:	LILW

Storage part of facility RBMA

The following shows storage status for waste classes and SRS.

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

List SRS?	No
List UMMT?	No

Capacity:	Buffer storage for subsequent disposal
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
ALMACEN	building	1971	No	No	No	No

Processing part of facility RBMA

The following shows processing status for waste classes and SRS.

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

Type:	Treatment, Conditioning
Year opened:	1971

Site (Data) : GAROÑA

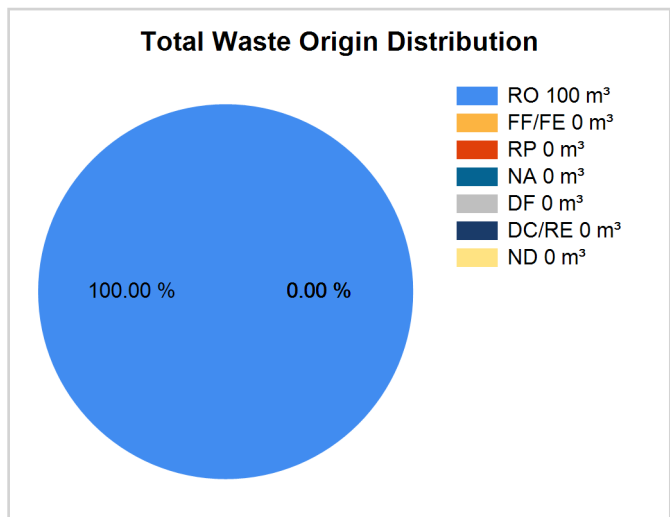
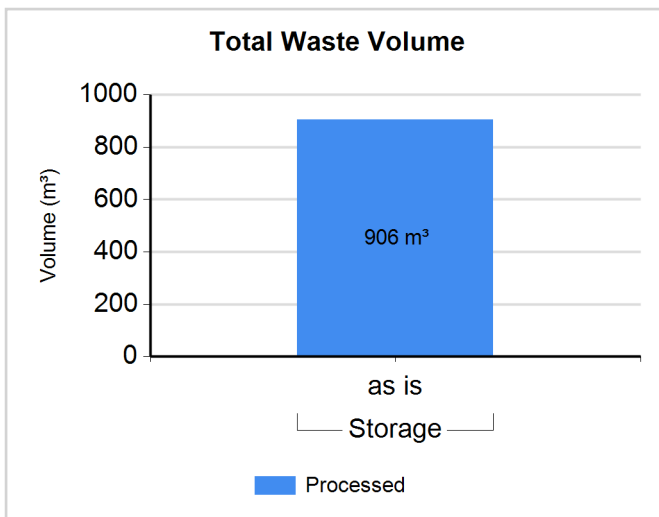
Stock of waste as at December 2009

Country: SPAIN

Reporting Year: 2009

Site Name: GAROÑA**Full Name:** CENTRAL NUCLEAR SANTA MARIA DE GAROÑA (SANTA MARIA DE GAROÑA NPP)**Inventory Reporting Date:** December 2009**Waste Matrix Used:** SPAIN**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: RBMA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
RBMA	Storage	Y	N	906.000	906.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Processing - Treatment method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Carbon Adsorption	N	N	Same	N
Compaction	N	N	Increase	N
Decontamination	N	N	Same	N
Evaporation	N	N	Same	N
Filtration	N	N	Same	N
Ion Exchange	N	N	Same	N
Size Reduction	N	N	Increase	N

Site (Data) : GAROÑA

Stock of waste as at December 2009

Country: SPAIN

Reporting Year: 2009

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

Site (Structure) : TRILLO

Country: SPAIN

Reporting Year: 2009

Full Name: CENTRAL NUCLEAR DE TRILLO (TRILLO NPP)

Description:

Official Website:

License Holder(s): IBERDROLA GENERACION, S.A. (48%); UNION FENOSA GENERACION, S.A. (34,5%); HIDROCANTABRICO (15,5%); NUCLENOR S.A. (2%) / CENTRALES NUCLEARES ALMARAZ-TRILLO, A.I.E.

IBERDROLA GENERACION, S.A. (48%); UNION FENOSA GENERACION, S.A. (34,5%); HIDROCANTABRICO (15,5%); NUCLENOR S.A. (2%) / CENTRALES NUCLEARES ALMARAZ-TRILLO, A.I.E.

Waste management facilities that are located at this site:

Site (Structure) : TRILLO

Country: SPAIN

Reporting Year: 2009

Facility:	RBMA
Description:	LILW

Storage part of facility RBMA

The following shows storage status for waste classes and SRS.

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

List SRS?	No
List UMMT?	No

Capacity:	Buffer storage for subsequent disposal
------------------	--

Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
ALMACEN	building	1988	No	No	No	No

Processing part of facility RBMA

The following shows processing status for waste classes and SRS.

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

Type:	Treatment, Conditioning
Year opened:	1988

Site (Data) : TRILLO

Stock of waste as at December 2009

Country: SPAIN

Reporting Year: 2009

Site Name: TRILLO

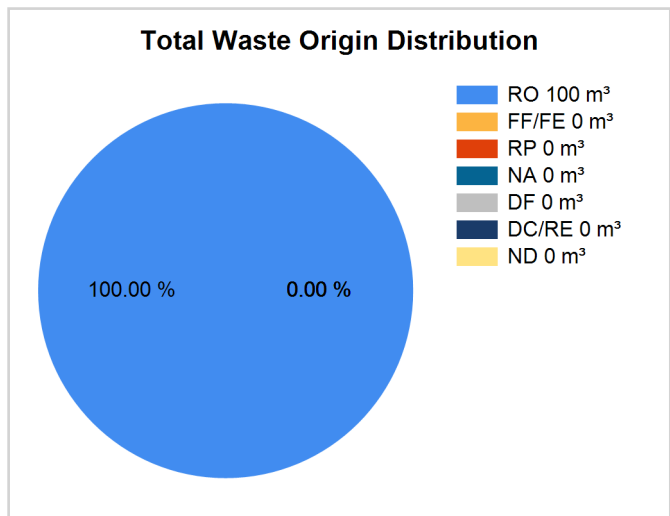
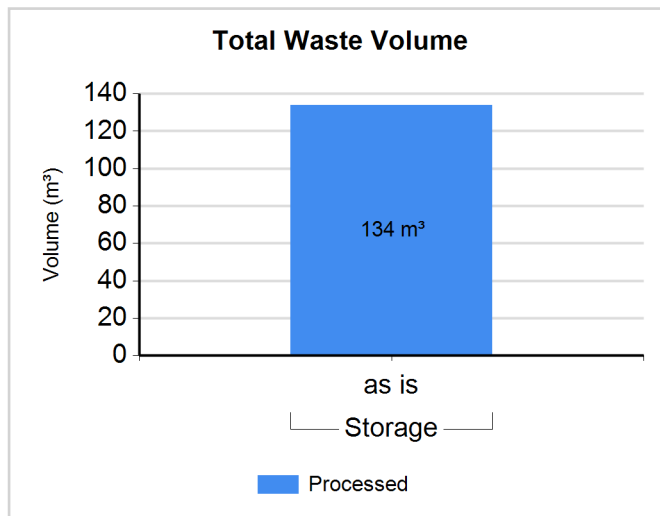
Full Name: CENTRAL NUCLEAR DE TRILLO (TRILLO NPP)

Inventory Reporting Date: December 2009

Waste Matrix Used: SPAIN

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: RBMA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
RBMA	Storage	Y	N	134.000	134.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Processing - Treatment method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Carbon Adsorption	N	N	Same	N
Compaction	N	N	Increase	N
Decontamination	N	N	Same	N
Evaporation	N	N	Same	N
Filtration	N	N	Same	N
Ion Exchange	N	N	Same	N
Size Reduction	N	N	Increase	N

Site (Data) : TRILLO

Stock of waste as at December 2009

Country: SPAIN

Reporting Year: 2009

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

Site (Structure) : VANDELLOS

Country: SPAIN

Reporting Year: 2009

Full Name: CENTRAL NUCLEAR DE VANDELLOS 2 (VANDELLOS 2 NPP)

Description:

Official Website:

License Holder(s): ENDESA GENERACION, S.A.(72%), IBERDROLA GENERACION, S.A.(28%) /
ASOCIACION NUCLEAR ASCO-ANDELLOS II, A.I.E.
ENDESA GENERACION, S.A.(72%), IBERDROLA GENERACION, S.A.(28%) /
ASOCIACION NUCLEAR ASCO-ANDELLOS II, A.I.E.

Waste management facilities that are located at this site:

Site (Structure) : VANDELLOS

Country: SPAIN

Reporting Year: 2009

Facility:	RBMA
Description:	LILW

Storage part of facility RBMA

The following shows storage status for waste classes and SRS.

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

List SRS?	No
List UMMT?	No

Capacity:	Buffer storage for subsequent disposal
------------------	--

Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
ALMACEN	building	1988	No	No	No	No

Processing part of facility RBMA

The following shows processing status for waste classes and SRS.

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

Type:	Treatment, Conditioning
Year opened:	1988

Site (Data) : VANDELLOS

Stock of waste as at December 2009

Country: SPAIN

Reporting Year: 2009

Site Name: VANDELLOS

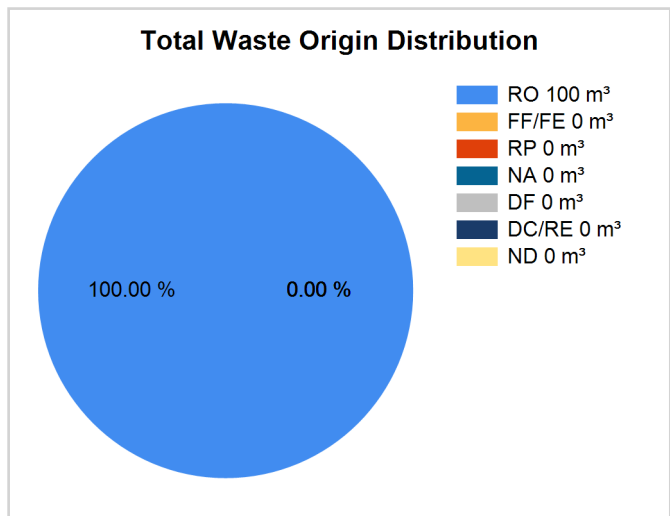
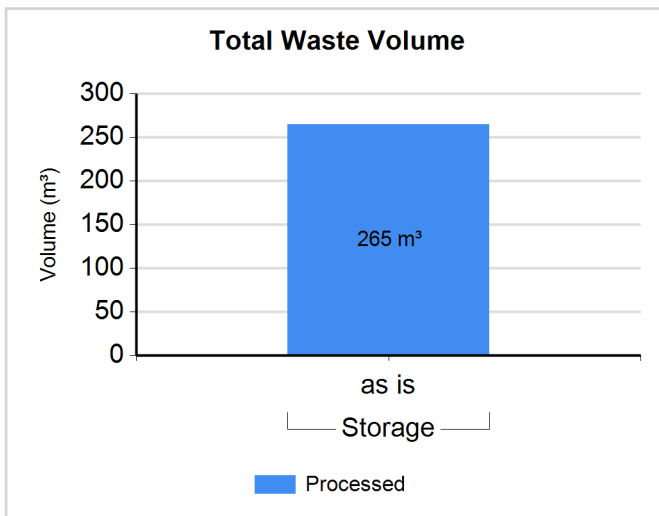
Full Name: CENTRAL NUCLEAR DE VANDELLOS 2 (VANDELLOS 2 NPP)

Inventory Reporting Date: December 2009

Waste Matrix Used: SPAIN

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: RBMA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
RBMA	Storage	Y	N	265.000	265.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Processing - Treatment method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Carbon Adsorption	N	N	Same	N
Compaction	N	N	Increase	N
Decontamination	N	N	Same	N
Evaporation	N	N	Same	N
Filtration	N	N	Same	N
Ion Exchange	N	N	Same	N
Size Reduction	N	N	Increase	N

Site (Data) : VANDELLOS

Stock of waste as at December 2009

Country: SPAIN

Reporting Year: 2009

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

Site (Structure) : ZORITA

Country: SPAIN

Reporting Year: 2009

Full Name: CENTRAL NUCLEAR JOSE CABRERA

Description: NPP WAS SHUTDOWN IN APRIL, 30 2006 ACCORDING TO ORDER ITC/1652/2006
ISSUED BY THE MITYC

Official Website:

License Holder(s): UNION FENOSA

Comment # 22719: Transference to ENRESA

Once shutdown, this facility was transferred by the utility UNION FENOSA to ENRESA according to Spanish legislation that assigns to ENRESA the responsibility for the decommissioning and dismantling of Nuclear installations

Waste management facilities that are located at this site:

Site (Structure) : ZORITA

Country: SPAIN

Reporting Year: 2009

Facility:	RBMA					
Description:						
Storage part of facility RBMA						
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
RBBA	Yes	No				
RBMA	Yes	No				
RAA	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?
almacen	building	1970	No	No	No	No
Processing part of facility RBMA						
The following shows processing status for waste classes and SRS.						
Waste Class	Actual	Planned				
RBBA	Yes	No				
RBMA	Yes	No				
RAA	No	No				
Type:	Treatment, Conditioning					
Year opened:	1970					

Site (Data) : ZORITA

Stock of waste as at December 2009

Country: SPAIN

Reporting Year: 2009

Site Name: ZORITA

Full Name: CENTRAL NUCLEAR JOSE CABRERA

Inventory Reporting Date: December 2009

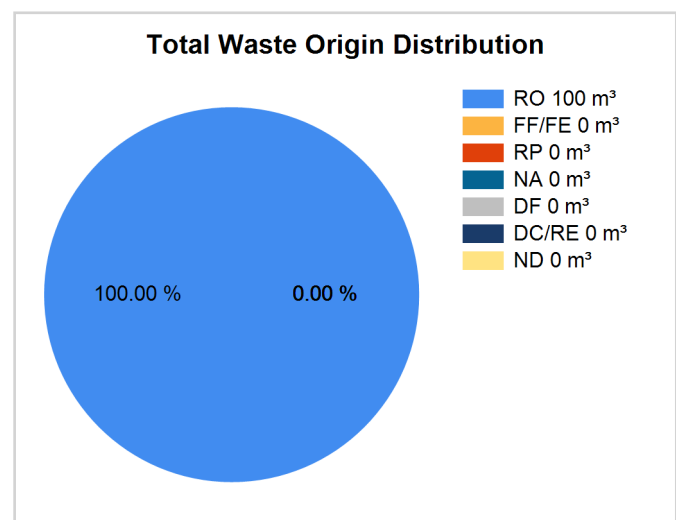
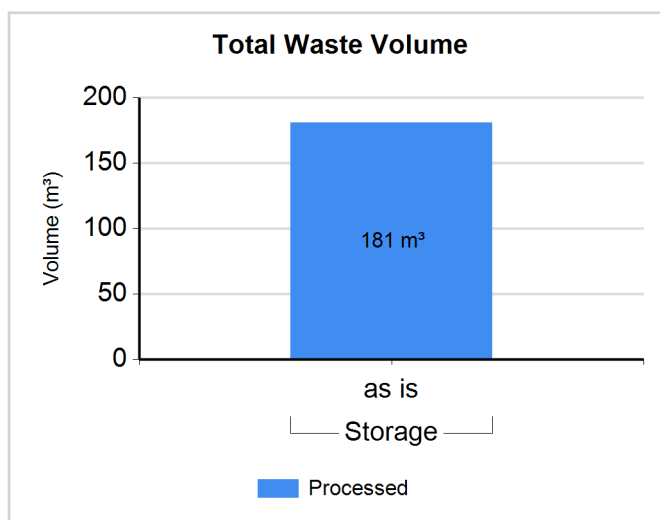
Waste Matrix Used: SPAIN

Comment # 22719: Transference to ENRESA

Once shutdown, this facility was transferred by the utility UNION FENOSA to ENRESA according to Spanish legislation that assigns to ENRESA the responsibility for the decommissioning and dismantling of Nuclear installations

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: RBMA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
RBMA	Storage	Y	N	181.000	181.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Processing - Treatment method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Carbon Adsorption	N	N	Same	N
Compaction	N	N	Same	N
Decontamination	N	N	Same	N
Evaporation	N	N	Same	N
Filtration	N	N	Same	N
Ion Exchange	N	N	Same	N
Size Reduction	N	N	Increase	N

Site (Data) : ZORITA

Stock of waste as at December 2009

Country: SPAIN

Reporting Year: 2009

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

Site (Structure) : CIEMAT

Country: SPAIN

Reporting Year: 2009

Full Name: CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y
TECNOLOGICAS (CIEMAT)

Description:

Official Website:

License Holder(s): CIEMAT

Waste management facilities that are located at this site:

Site (Structure) : CIEMAT

Country: SPAIN

Reporting Year: 2009

Facility:	RMBA
Description:	LILW

Storage part of facility RMBA

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
RBBA	Yes	No
RBMA	Yes	No
RAA	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?
ALMACEN	building	1970	No	No	No	Yes
ALMACEN 2	building	2005	No	No	No	No
ALMACEN 3	building	2005	No	No	No	No

Processing part of facility RMBA

The following shows processing status for waste classes and SRS.

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

Type:	Treatment, Conditioning
Year opened:	1970

Site (Data) : CIEMAT

Stock of waste as at December 2009

Country: SPAIN

Reporting Year: 2009

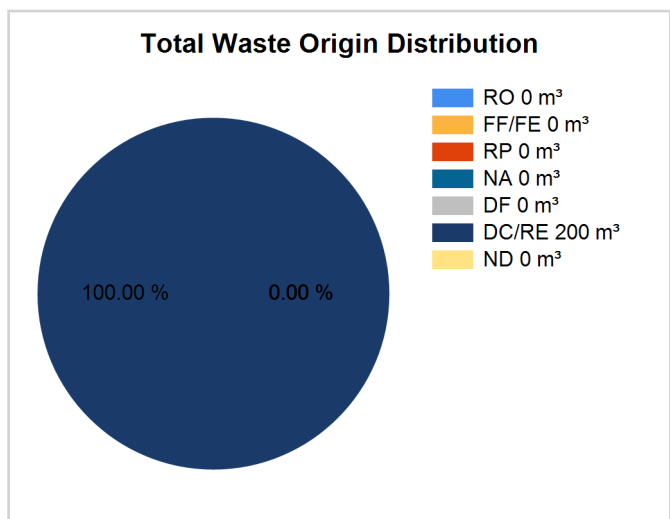
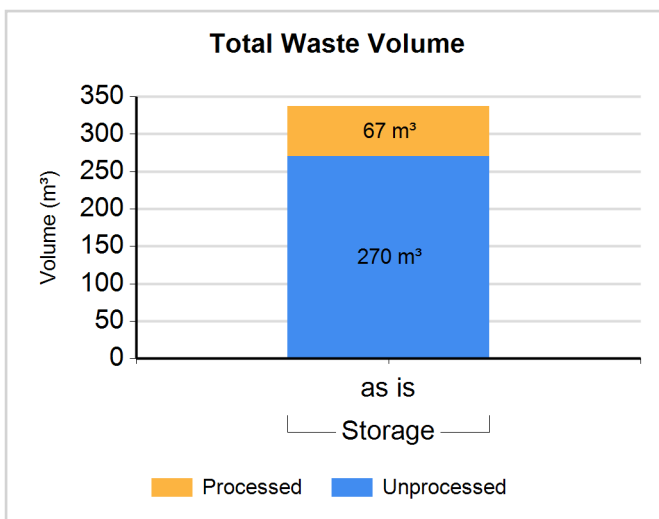
Site Name: CIEMATFull Name: CENTRO DE INVESTIGACIONES ENERGETICAS,
MEDIOAMBIENTALES Y TECNOLOGICAS (CIEMAT)

Inventory Reporting Date: December 2009

Waste Matrix Used: SPAIN

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: RBBA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
RBBA	Storage	N	N	270.000	270.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Waste Class: RBMA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
RBMA	Storage	Y	N	67.000	67.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Processing - Treatment method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Compaction	N	N	Increase	N
Size Reduction	N	N	Increase	N

Site (Data) : CIEMAT

Stock of waste as at December 2009

Country: SPAIN

Reporting Year: 2009

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

Site (Structure) : EL CABRIL

Country: SPAIN

Reporting Year: 2009

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

Description:

Official Website:

License Holder(s): ENRESA

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	
Type:	Conditioning		
Year opened:	1993		

Site (Structure) : EL CABRIL

Country: SPAIN

Reporting Year: 2009

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></tbody></table>	Waste Class	Actual	Planned	RBBA	Yes	No	RBMA	Yes	No	RAA	No	No	
Waste Class	Actual	Planned											
RBBA	Yes	No											
RBMA	Yes	No											
RAA	No	No											
Type:	Treatment												
Year opened:	1993												

Site (Structure) : EL CABRIL

Country: SPAIN

Reporting Year: 2009

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

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

Site (Structure) : EL CABRIL

Country: SPAIN

Reporting Year: 2009

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				
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

Site (Structure) : EL CABRIL

Country: SPAIN

Reporting Year: 2009

Facility:	INC												
Description:	INCINERATOR												
Processing part of facility INC													
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>No</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></tbody></table>	Waste Class	Actual	Planned	RBBA	No	No	RBMA	Yes	No	RAA	No	No	
Waste Class	Actual	Planned											
RBBA	No	No											
RBMA	Yes	No											
RAA	No	No											
Type:	Treatment												
Year opened:	1993												

Site (Structure) : EL CABRIL

Country: SPAIN

Reporting Year: 2009

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

List SRS?	No
List UMMT?	No

Capacity:	
-----------	--

Types of Storage Units

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

Site (Structure) : EL CABRIL

Country: SPAIN

Reporting Year: 2009

Facility:	LILW CELDA
Description:	NEAR SURFACE DISPOSAL WITH ENGINEERED BARRIERS. WASTE PLACED IN REINFORCED CONCRETE CONTAINERS IN THE DISPOSAL CELLS

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

List SRS?	No
List UMMT?	No

Type:	engineered near 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

Site (Structure) : EL CABRIL

Country: SPAIN

Reporting Year: 2009

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				
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

Site (Structure) : EL CABRIL

Country: SPAIN

Reporting Year: 2009

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

List SRS?	No
List UMMT?	No

Capacity:	BUFFER STORAGE
------------------	----------------

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

Type:	Conditioning
Year opened:	2008

Site (Structure) : EL CABRIL

Country: SPAIN

Reporting Year: 2009

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

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

Site (Data) : EL CABRIL

Stock of waste as at December 2009

Country: SPAIN

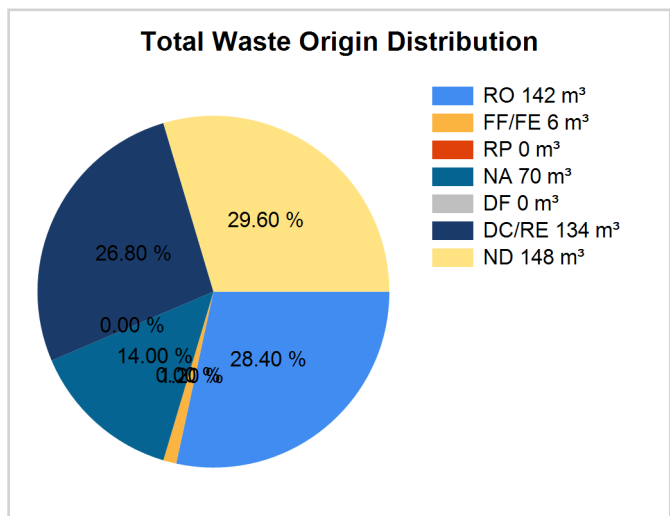
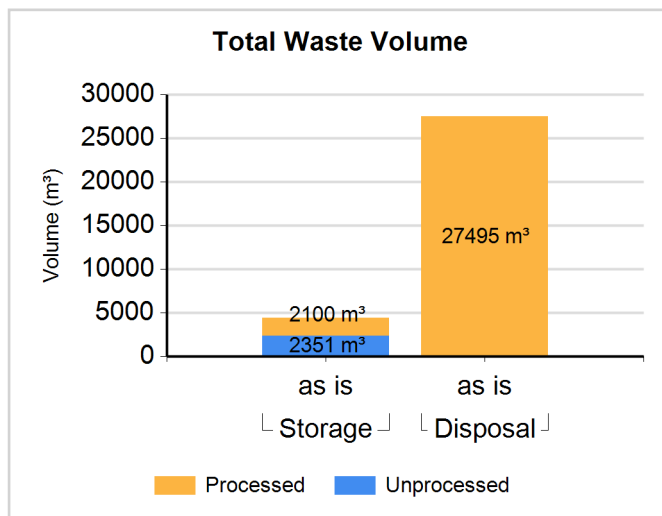
Reporting Year: 2009

Site Name: EL CABRIL

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

Inventory Reporting Date: December 2009**Waste Matrix Used:** SPAIN**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: RBBA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
RBBA	Storage	N	Y	1796.000	1796.000	0.00	0.00	0.00	0.00	0.00	15.00	85.00
RBBA	Disposal	Y	Y	953.000	953.000	0.00	0.00	0.00	0.00	0.00	85.00	15.00

Waste Class: RBMA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
RBMA	Storage	N	Y	555.000	555.000	0.00	0.00	0.00	60.00	0.00	0.00	40.00
RBMA	Storage	Y	Y	2100.000	2100.000	70.00	5.00	0.00	0.00	0.00	25.00	0.00
RBMA	Disposal	Y	Y	26542.000	26542.000	72.00	1.00	0.00	10.00	0.00	9.00	8.00

Site (Data) : EL CABRIL

Stock of waste as at December 2009

Country: SPAIN

Reporting Year: 2009

Processing - Treatment method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Decontamination	Y	N		N
Incineration	N	N	Same	N
Segregation/Sorting	N	N	Same	N
Super Compaction	N	N	Increase	N
Thermal Treatment (non incineration)	N	Y		N

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

Site (Structure) : VANDELLOS

Country: SPAIN

Reporting Year: 2009

Full Name: CENTRAL NUCLEAR EN DESMANTELAMIENTO DE VANDELLOS I (VANDELLOS I NPP UNDER DORMANCY)

Description:

Official Website:

License Holder(s): ENRESA

Waste management facilities that are located at this site:

Facility:	VANDELLOS
Description:	Only for decommissioning waste

Storage part of facility VANDELLOS

The following shows storage status for waste classes and SRS.

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

List SRS?	No
List UMMT?	No

Capacity:	
-----------	--

Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
ATOC	building	2003	No	Yes	No	No
DGT	building	2003	No	Yes	No	No

Site (Data) : VANDELLOS

Stock of waste as at December 2009

Country: SPAIN

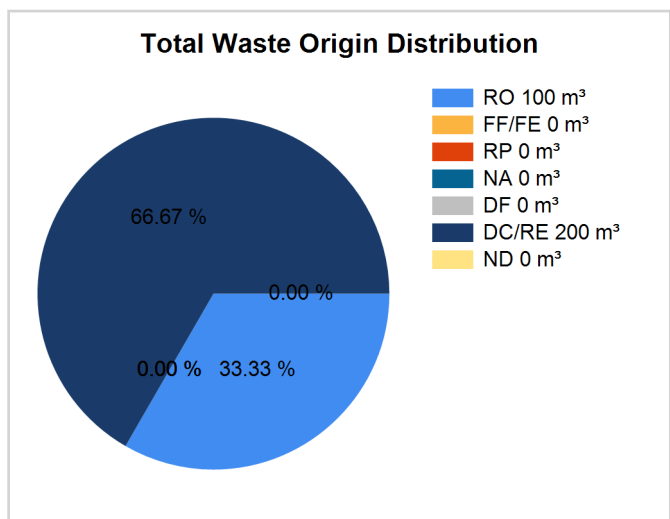
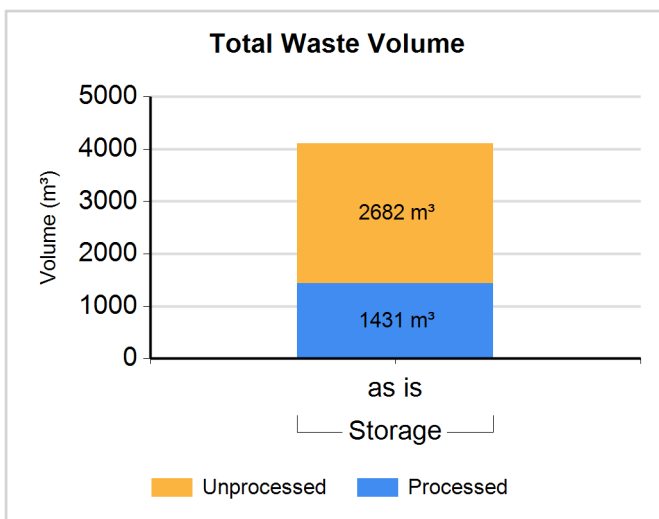
Reporting Year: 2009

Site Name: VANDELLOSFull Name: CENTRAL NUCLEAR EN DESMANTELAMIENTO DE VANDELLOS I
(VANDELLOS I NPP UNDER DORMANCY)

Inventory Reporting Date: December 2009 Waste Matrix Used: SPAIN

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: RBBA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
RBBA	Storage	Y	N	1372.000	1372.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Waste Class: RBMA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
RBMA	Storage	Y	N	59.000	59.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Waste Class: RAA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
RAA	Storage	N	N	2682.000	2682.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Site (Structure) : Juzbado

Country: SPAIN

Reporting Year: 2009

Full Name: FABRICA DE ELEMENTOS COMBUSTIBLES (NUCLEAR FUEL ASSEMBLIES MANUFACTURING PLANT)

Description:

Official Website:

License Holder(s): ENUSA

Waste management facilities that are located at this site:

Facility:	RMBA					
Description:	LILW					
Storage part of facility RMBA						
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
RBBA	Yes	No				
RBMA	Yes	No				
RAA	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:	Buffer storage for subsequent disposal					
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
STORAGE	building	1985	No	No	No	No
Processing part of facility RMBA						
The following shows processing status for waste classes and SRS.						
Waste Class	Actual	Planned				
RBBA	No	No				
RBMA	No	No				
RAA	No	No				
Type:	Treatment, Conditioning					
Year opened:	1985					

Site (Data) : Juzbado

Stock of waste as at December 2009

Country: SPAIN

Reporting Year: 2009

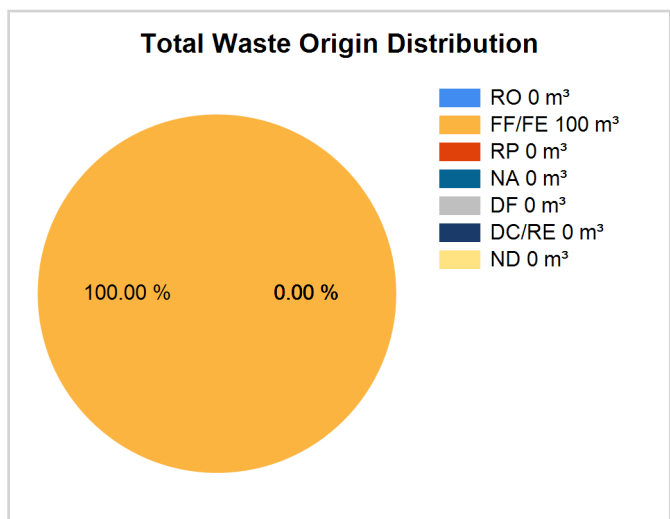
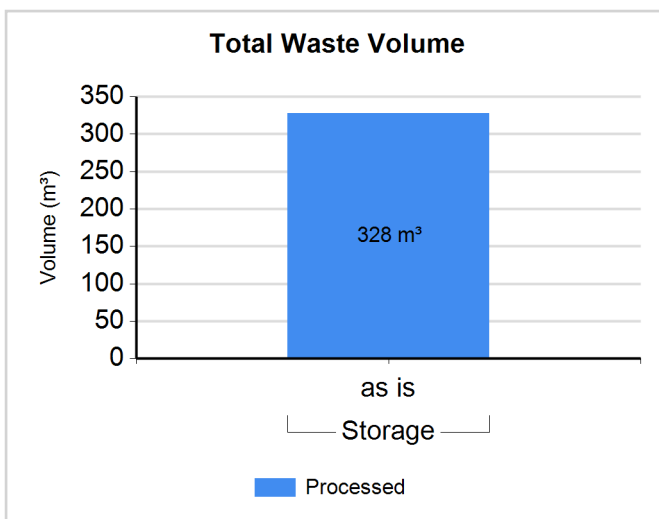
Site Name: Juzbado

Full Name: FABRICA DE ELEMENTOS COMBUSTIBLES (NUCLEAR FUEL ASSEMBLIES MANUFACTURING PLANT)

Inventory Reporting Date: December 2009 Waste Matrix Used: SPAIN

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: RBMA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
RBMA	Storage	Y	N	328.000	328.000	0.00	100.00	0.00	0.00	0.00	0.00	0.00

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
Segregation/Sorting	N	N	Same	N

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

Regulators

Country: SPAIN

Reporting Year: 2009

Name:	CSN
Full Name:	Consejo de Seguridad Nuclear (Nuclear Safety Council)
Divison:	
City or Town:	Madrid
Main Website:	

Name:	MITyC
Full Name:	Ministerio de Industria, Turismo y Comercio (Ministry for Industry, Tourism and Trade)
Divison:	Dirección General de Política Energética y Minas (Directorate General for Energy Policy and Mines)
City or Town:	Madrid
Main Website:	

Name:	MARM
Full Name:	Ministerio de Medio Ambiente y Medio Rural y Marino (Ministry of the Environment and Rural and Marine affairs)
Divison:	Dirección General de Calidad y Evaluación Ambiental (Directorate General for Environmental Quality and Assessment)
City or Town:	Madrid
Main Website:	

Attachment #1819: Regulator

Institutional chart.ppt

Regulations / Laws

Country: SPAIN

Reporting Year: 2009

Name:	RD 1349/03	
Title or Name:	ROYAL DECREE 1349/2003, of 31st October, on the governance of activities performed by the Empresa Nacional de Residuos Radiactivos, S.A. (ENRESA) and their financing.	
Reference Number:	Official State Gazette 268	
Date Promulgated or Proclaimed:	10/31/2003	Regulation

Attachment **#846: Regulation**

RD 1349-2003.pdf

Royal Decree 1349/2003 (in Spanish)

Attachment **#1820: Regulation**

RD 1349-2003 ingles.doc

Royal Decree 1349/2003 in English

Name:	LAW 15/80	
Title or Name:	LAW 15/1980, of April 22nd, creating the Nuclear Safety Council, ammended by LAW 33/2007	
Reference Number:	Official State Gazette 100 1980-04-25	
Date Promulgated or Proclaimed:	4/22/1980	Law

Comment **# 20318: Regulation LAW 15/80**

This Law constitutes the CSN as sole organisation responsible for nuclear safety and radiation protection, the Council being independent from the Government and the rest of the Administration and having the power to carry out the necessary inspections and assessments of nuclear and radioactive installations in order to guarantee the nuclear safety and radiological protection.

Attachment **#1817: Regulation**

Law 33-2007 CSN.doc

Attachment **#1823: Regulation**

Ley 33-2007 CSN.pdf

Ley 33/2007 (in Spanish)

Attachment **#1824: Regulation**

Ley 15-1980 creación del CSN.pdf

Ley creación CSN (in Spanish)

Regulations / Laws

Country: SPAIN

Reporting Year: 2009

Name:	RD 1836/99	
Title or Name:	ROYAL DECREE 1836/199, of December 3, approving the regulation on Nuclear and Radioactive facilities, modified by ROYAL DECREE 35/2008, of January 18th	
Reference Number:	Official State Gazette 313 199-12-31	
Date Promulgated or Proclaimed:	12/3/1999	Regulation

Comment **# 20317: Regulation RD 1836/99**

The Regulation on Nuclear and Radioactive Facilities is the most important of the standards for enactment of the Nuclear Energy Act. It establishes the procedure for licensing of facilities at which nuclear and radioactive activities are carried out. It defines in detail the types and categories of such activities and establishes as a general standard that the installations are subjected to a system of authorisation to be awarded.

Attachment **#1821: Regulation**

Reglamento instalaciones nucleares ya radiactivas inrcomparativa170308.pdf

Comparative version between Royal Decree 1836/1999 updated by Royal Decree 35/2008 (In Spanish)

Name:	RD 413/97	
Title or Name:	ROYAL DECREE 413/1997, of March 21st, on the operational protection of off-site workers running the risk of exposure to ionising radiations intervening in the controlled zone	
Reference Number:	Official State Gazette num 91 1997-04-16	
Date Promulgated or Proclaimed:	4/16/1997	Regulation

Attachment **#1818: Regulation**

RD 413 de 1997 Proteccion trabajadores externos profesionalmente expuestos[1].pdf

Name:	ACT 54/97	
Title or Name:	ACT 54/1997, of November 27th, of Electricity Sector (Electricity Sector Act), modified by ACT 17/2007, of July 4th	
Reference Number:	Official State Gazette 285 1997-11-28	
Date Promulgated or Proclaimed:	11/27/1997	Law

Attachment **#1221: Regulation**

Electricity Industry Act 54 1997.doc

Definition of radioactive waste and coverage

Regulations / Laws

Country: SPAIN

Reporting Year: 2009

Name:	ACT 14/99	
Title or Name:	ACT 14/1999, of May 4th, on Taxes and Public Prices for services rendered by the Nuclear Safety Council (CSN)	
Reference Number:	Official State Gazette 107 1999-05-05	
Date Promulgated or Proclaimed:	5/4/1999	Law

Attachment **#1825: Regulation**

NUCLEAR SAFETY COUNCIL ACT 14-1999.doc

ACT 14/1999 on Taxes and Public Prices for services rendered by the Nuclear Safety Council (In English) for the financing of RWM activities not included under the umbrella of the corresponding GRWP

Name:	RD 640/200	
Title or Name:	ROYAL DECREE 640/2009, of July 7th, developing the Royal Decree 542/2009 through which Ministerial Departments are reorganized and modifies also Royal Decree 438/2008, of April 14th, taht aproves the basic organic structure of the ministerial departments	
Reference Number:	Official State Gazette 97 2009-04-21	
Date Promulgated or Proclaimed:	4/17/2009	Regulation

Name:	OR JULY 98	
Title or Name:	ORDER of July 13th 1998, partially modified by ORDER of June 21st 2001	
Reference Number:	Official State Gazette 170 1998-07-17	
Date Promulgated or Proclaimed:	7/13/1998	Regulation

Comment **# 20319: Regulation OR JULY 98**

Order authorising ENRESA to the assignment of funds to Town Councils whose municipal territories house facilities for storage or disposal of RW

Attachment **#1412: Regulation**

Regulation governing Funds allocation to Town Council.pdf

Attachment **#1829: Regulation**

orden_21_junio_2001 asignaciones.pdf

Order amending previous Order 13 July 1998 which authorized ENRESA to the assignment of funds to Town Councils whose municipal territories house facilities for storage or disposal of RW

Regulations / Laws

Country: SPAIN

Reporting Year: 2009

Name:	OR 1449/03	
Title or Name:	ORDER ECO 1449/2003, of May 21st, on management of solid waste material with radioactive content generated by category 2 and 3 radioactive installations where unencapsulated radioactive isotopes are handled or stored	
Reference Number:	Official State Gazette 134 2003-06-05	
Date Promulgated or Proclaimed:	5/21/2003	Regulation

Attachment **#1413: Regulation**

Order 1449 2003.doc

Name:	RD 775/06	
Title or Name:	ROYAL DECREE 775/2006, of June 23rd, creating the Interministerial Commission for the establishment of the criteria that must be met by the site of the centralised spent nuclear fuel and high-level waste temporary storage facility, and of its associated technology centre.	
Reference Number:	Official State Gazette 159, 206-07-05	
Date Promulgated or Proclaimed:	6/23/2006	Regulation

Attachment **#1414: Regulation**

RD 775 2006 english version.doc

Regulations / Laws

Country: SPAIN

Reporting Year: 2009

Name:	LAW 11/09		
Title or Name:	Law 11/2009, of October 26th, regulating Limited Investment Companies Quoted on the Real Estate Market		
Reference Number:	Ninth final provision. Modification of the Nuclear		
Date Promulgated or Proclaimed:	10/26/2009	Law	

Comment **# 23038: FRAMEWORK AND FINANCING**

This Law 11/2009 defines the management of radioactive waste, including spent nuclear fuel, and the dismantling and decommissioning of nuclear facilities is an essential public service corresponding exclusively to the State, in keeping with article 128.2 of the Spanish Constitution.

The management of this public service is commissioned to the company Empresa Nacional de Residuos Radiactivos, S.A. (ENRESA), in accordance with the General Radioactive Waste Plan approved by the Government.

In this respect, ENRESA is constituted as a vehicle and technical service of the Administration, responsible for carrying out whatever functions might be assigned to it by the Government.

It also states that the tutelage of ENRESA shall correspond to the Ministry of Industry, Tourism and Trade via the Secretariat of State for Energy, which shall undertake the strategic management of the said company and the tracking and control of its activities and plans, both technical and economical.

In relation to the Fund for financing of the activities included in the General Radioactive Waste Plan, it is stated that the management of radioactive waste, including spent nuclear fuel, and the dismantling and decommissioning of nuclear facilities, referred to in article 38 (b) of Law 25/1964, of April 29th, commissioned to the Empresa Nacional de Residuos Radiactivos, S.A. (ENRESA), shall be carried out with financing via the Fund for the financing of the activities included in the General Radioactive Waste Plan.

This Fund is made up of the sums arising from the collection of the fees regulated, as well as of any compensation or income arising from the rendering of the said services. Also integrated in the Fund is the yield on its transitory financial investments.

Without prejudice to the aforementioned transitory financial investments, the sums integrated into the Fund may be invested only in expenses, works, projects and assets deriving from the activities contemplated in the General Radioactive Waste Plan approved by the Governme

Attachment **#2042: Regulation**

Law 11-2009.pdf

Law 11/2009 in English

Milestones

Country: SPAIN

Reporting Year: 2009

Start Year or Reference Year:	2008	End Year:	
Description of Milestone:			
The El Cabril Very Low Level Waste Disposal area starts up operations in October			
Start Year or Reference Year:	2006	End Year:	
Description of Milestone:			
The Sixth General Radioactive Waste Plan is approved by the Government			
Start Year or Reference Year:	2006	End Year:	
Description of Milestone:			
Zorita NPP is shutdown			
Start Year or Reference Year:	1998	End Year:	2004
Description of Milestone:			
Vandellos I NPP decommissioning (stage 2).			
Start Year or Reference Year:	1992	End Year:	
Description of Milestone:			
The operational license for El Cabril facility was granted			
Start Year or Reference Year:	1991	End Year:	1994
Description of Milestone:			
Decommissioning of the Uranium Milling Plant of Andujar (FUA)			
Start Year or Reference Year:	1987	End Year:	
Description of Milestone:			
The Spanish First General Radioactive Waste Plan was approved by the Government.			
Start Year or Reference Year:	1984	End Year:	
Description of Milestone:			
The Spanish Radioactive Waste Management Company (ENRESA) was created by Royal Decree			
Start Year or Reference Year:	1980	End Year:	
Description of Milestone:			
The Spanish Nuclear Safety Council was created			

Milestones

Country: SPAIN

Reporting Year: 2009

Start Year or Reference Year:	1968	End Year:	
Description of Milestone:			
The first Spanish NPP (C.N. Jose Cabrera) was connected to the grid			
Start Year or Reference Year:	1964	End Year:	
Description of Milestone:			
The Spanish Nuclear Energy Law was enacted			
Start Year or Reference Year:	1951	End Year:	
Description of Milestone:			
The Nuclear Energy Board (JEN) was created as the organization in charge of all fields related to nuclear energy. In 1986 it was renamed CIEMAT.			

Policies

Country: SPAIN

Reporting Year: 2009

National Systems

Policy		(Yes;Partially;No)
Q14	Has your Country implemented a national policy for radioactive waste management?	Yes
Attachment #1415: Questionnaire		
SIXTH PLAN.pdf		
The Sixth General Radioactive Waste Plan, approved July 2006, defines the current policy in this matter		
Strategies		(Yes;Partially;No)
Q15	Has your country developed strategies to implement a national policy?	Yes
Requirements		(Yes;Partially;No)
Q17	identified the parties involved in the different steps of radioactive waste management	Yes
Q18	specified a rational set of safety, radiological and environmental protection objectives	Yes
Q19	implemented a mechanism to identify existing and anticipated radioactive wastes	Yes
Q20	implemented controls over radioactive waste generation	Yes
Q21	identified available methods and facilities to process, store and dispose of radioactive waste on an appropriate time-scale	Yes
Q22	taken into account interdependencies among all steps in radioactive waste generation and management	Yes
Q23	implemented appropriate research and development to support the operational and regulatory needs	Yes
Q24	implemented a funding structure and the allocation of resources that are essential for radioactive waste management	Yes
Q25	implemented formal mechanisms for disseminating information to the public and for public consultation	Yes
Responsibilities		(Complete;Incomplete)
Q28	establish and implement a legal framework for the management of radioactive waste	Complete
Q29	establish or designate a regulatory body that has the responsibility for carrying out the regulatory function with regard to safety and the protection of human health and the environment.	Complete
Q30	define the responsibilities of waste generators and operators of waste management facilities	Complete
Q31	provide for adequate resources	Complete
Q33	enforce compliance with regulatory requirements	Complete
Q34	implement the licensing process	Complete
Q35	advise the government	Complete
Q37	identify an acceptable destination for the radioactive waste	Complete
Q114	comply with legal requirements	Complete

Policies

Country: SPAIN

Reporting Year: 2009

Activities		(Yes;Partially;No)
Q43	perform safety and environmental impact assessments for radioactive waste management facilities	Yes
Q44	ensure adequate radiation protection for workers, the general public and the environment	Yes
Q45	ensure suitable staff, equipment, facilities, training and operating procedures are available to perform the safe radioactive waste management steps	Yes
Q46	establish and implement a quality assurance programme for the radioactive waste generated or its processing, storage and disposal	Yes
Q47	establish and keep records of appropriate information regarding the generation, processing, storage and disposal of radioactive waste, including an inventory of radioactive waste	Yes
Q48	provide surveillance and control of activities involving radioactive waste as required by the regulatory body	Yes
Q49	collect, analyze and, as appropriate, share operational experience to ensure continued safety improvements in radioactive waste management	Yes
Q50	conduct or otherwise ensure appropriate research and development to support operational needs in radioactive waste management	Yes

Clearance		(Yes;No)
Q128	Does your country have "clearly defined clearance levels based on radiological criteria, with policy statements that material below those levels can be recycled or disposed of with non-radioactive wastes"?	No
Q129	Has your country ever used a "case-by-case" approach to clearing radioactive wastes (excluding spent/disused sealed radioactive sources)?	Yes
Q130	Has your country ever used clearance levels to dispose of, reuse or recycle radioactive waste as non-radioactive waste or as a non-radioactive resource (excluding spent/disused sealed radioactive sources)?	Yes

Attachment #1220: Questionnaire

RD 1349-2003 ingles.doc

Regulation related to the management of solid waste material with radioactive content generated at category 2 and 3 radioactive facilities where non-encapsulated radioactive isotopes are handled or stored. (clearance levels)

Policies

Country: SPAIN

Reporting Year: 2009

Disposal Facilities

Licensing		(Yes - All;Yes - Some;No)
Q53	Environmental Assessment (EA)	Yes - All
Q54	Environmental Impact Statement (EIS)	Yes - All
Q55	Performance Assessment (PA)	Yes - All
Q56	Quality Assurance (QA)	Yes - All
Q57	Safety Assessment (SA)	Yes - All
Q59	If Quality Assurance is part of your Country's current, waste disposal facility licensing policy, does the QA Program conform to international standards (such as the ISO9000 series)?	Yes - All
Operation		(Yes - All;Yes - Some;No)
Q60	Does your Country have formal, documented waste acceptance criteria for its operating or proposed disposal facilities?	Yes - All
Post-Closure		(Yes;No)
Q61	Does your Country have any written policies to address the maintenance of records that describe the design, location and inventory of waste disposal facilities?	Yes
Q62	If the answer to the previous question was YES, does your Country have any policies, laws or regulations that prescribe what records are to be maintained?	Yes
Q63	Does your Country have any written policies to address active institutional controls or passive institutional controls, such as monitoring or access restrictions?	Yes
Q65	access restrictions	Yes
Q66	drainage and/or leachate collection system(s)	Yes
Q67	leachate treatment systems	Yes
Q68	environmental monitoring	Yes
Q69	facility monitoring	Yes
Q70	surveillance	Yes
Q71	plans for intervention measures during active institutional control if there is an unplanned release of radioactive materials from the disposal facility	Yes

Policies

Country: SPAIN

Reporting Year: 2009

Processing/Storage

Policies/Procedures		(Yes;No)
Q73	waste sorting/segregation	Yes
Q74	waste minimization	Yes
Q75	waste storage	Yes
Q76	processing and/or storing and/or disposing of nuclear fuel cycle waste separately from non-nuclear fuel cycle waste (also known as nuclear applications waste)	No
Q78	Does your country have any legislation, regulation, or policy that waste processing must take place prior to storage (see following note)	Yes

Comment # 7567: PROCEDURES
SEPARATE FOR PROCESSING/SORTING. COMMON FOR DISPOSAL

Implementation		(Yes;No)
Q80	In your Country are there any waste processing facilities at the same location where the waste is generated?	Yes
Q81	In your Country are there any centralized waste processing facilities?	Yes
Q82	In your Country are there any mobile waste processing facilities?	No

Foreign		(Yes;No)
Q121	Has your country sent any wastes or spent fuel to another country for processing (reprocessing for fuel)?	Yes
Q122	Will some or all of the product(s) of processing/reprocessing be returned to your country?	Yes
Q123	Currently, are any of your country's wastes (processed or unprocessed, including the products of reprocessing) or spent fuel being stored in another country?	Yes
Q124	Has your country accepted any wastes or spent fuel from another country for processing (reprocessing for fuel)?	No

Policies

Country: SPAIN

Reporting Year: 2009

Spent/Disused SRS

Registration		(Yes;No)
Q84	Is there a national level registry?	Yes
Q85	If answer was yes, is the registry used only for disused/spent SRS?	No
Q87	Are there regional-level registries (one or more)?	No
Q90	Are there local-level registries (one or more)?	No
Procedures		(Yes;No)
Q91	Does your Country have documented procedures in place to ensure that sealed radioactive sources (SRS) are transferred to secure facilities in a timely manner after their user declares them to be spent?	Yes
Agreements		(Yes;No)
Q93	Government to Government agreements	No
Q94	Government - Supplier agreements	No
Q95	Supplier-User agreements	Yes
Q97	Do any agreements include suppliers that are outside of your Country?	Yes
Release / Disposal		(Yes;No)
Q99	Does your Country have any regulations to free-release spent sealed radioactive sources (SRS)?	No
Q100	Has your Country disposed of spent SRS in existing disposal facilities for LILW or HLW waste?	Yes
Q101	Does your Country plan to dispose of spent SRS in existing or planned disposal facilities for LILW or HLW waste?	Yes
Q102	Has your Country implemented dedicated disposal facilities for spent SRS?	No
Q103	Does your Country have plans to implement dedicated disposal facilities for spent SRS?	No
Import-Export		
Radioactive Waste		(Yes;No)
Q104	Does your Country have laws or Regulations restricting either the import or export of radioactive waste (excluding spent fuel)?	No
Spent Fuel		(Yes;No)
Q105	Does your Country have laws or Regulations restricting either the import or export of spent fuel?	No

Policies

Country: SPAIN

Reporting Year: 2009

Liquid HLW**Storage****(Yes;No)**

Q106	Does your Country have high-level liquid wastes in storage?	No
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UMMT**Responsibility****(Yes;No)**

Q110	Does your Country have any Uranium Mine and Mill Tailings sites that do not have a designated authority to manage them?	No
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Decommissioning**Funding****(Yes - All;Yes - Some;No)**

Q111	Does your Country require that funds should be set aside in support of future waste management activities, such as decommissioning activities?	Yes - All
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Facilities**(Yes;No)**

Q119	Does Your Country have any nuclear fuel cycle facilities?	Yes
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Q120	Does Your Country have any nuclear applications facilities (non fuel cycle facilities)?	Yes
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Timeframe**(Yes - All;Yes - Some;No)**

Q112	Does your Country require a time frame for the decommissioning of nuclear fuel cycle facilities once these facilities cease operation?	Yes - All
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Q113	Does your Country require a time frame for the decommissioning of non-nuclear fuel cycle facilities once these facilities cease operation?	Yes - All
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Future Outlook

Country: SPAIN

Reporting Year: 2009

Data not available.

Future Outlook

Country: SPAIN

Reporting Year: 2009

Data not available.

Future Outlook

Country: SPAIN

Reporting Year: 2009

Data not available.

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