



# **Country Waste Profile Report for ROMANIA Reporting Year: 2013**

*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: ROMANIA

Reporting Year: 2013

Waste Class Matrix: **IAEA Def.**

This country does use the IAEA Scheme: Yes

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 **# 128: IAEA Matrix use**

The use of IAEA Def. matrix is not required by any law or regulation.  
The matrix is just being used to report non-power wastes to the NEWMDB.

Waste Class Matrix: **NPP waste**

Yes

Description: Type 1: nominal activity less than 7.5E09 Bq/m<sup>3</sup> (1 nominal Bq is the emission of 1 photon/sec of 0.8 MeV energy); or gamma dose rate less than 2 mGy/h at container surface.  
Type 2: nominal activity between 7.5E09 and 3.7E12 Bq/m<sup>3</sup>; or gamma dose rate between 2 mGy/h and 125 mGy/h at container surface.  
Type 3: nominal activity higher than 3.7E12 Bq/m<sup>3</sup>; or gamma dose rate higher than 125 mGy/h at container surface.

Waste Class Name	Distribution %			
	VLLW	LLW	ILW	HLW
Type 1	0.0	100.0	0.0	0.0
Type 2	0.0	40.0	60.0	0.0
Type 3	0.0	0.0	0.0	100.0

Comment **# 129: NPP types of waste**

The NPP types of waste were established by the reference document of NPP RD-01364-RP1 (rev.3) "Solid Radioactive Waste Management Concept for Cernavoda NPP", approved by the regulatory authority (CNCAN) on 14 Nov.1994.

Comment **# 130: percentages in the NPP waste matrix**

The percentages in the NPP waste matrix were estimated based on best knowledge of the waste (not on detailed analytical information). The percentages will be modified after more information will be available.

## Waste Classification Schemes

Country: ROMANIA

Reporting Year: 2013

Waste Class Matrix: **National**

Yes

Description:

Waste Class Name	Distribution %			
	VLLW	LLW	ILW	HLW
VLLW	100.0	0.0	0.0	0.0
LILW-SL	0.0	100.0	0.0	0.0
LILW-LL	0.0	0.0	100.0	0.0
HLW	0.0	0.0	0.0	100.0

Comment **# 30829:**

National profile

**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

Comment **# 12223: Definitions for Unprocessed Waste and Processed W**

According to NDR-01 regulations In Romania there is the following definition: Conditioning of radioactive waste - involves those operations that transform radioactive waste into a form suitable for handling, transport, storage and disposal. The operations may include immobilization of radioactive waste, placing the waste into containers and providing additional packaging.

## Groups Overview

Country: ROMANIA

Reporting Year: 2013

<b>Reporting Group:</b>	<b>CNU</b>
Inventory Reporting Date:	December 2013
Waste Matrix Used:	IAEA Def.
Description:	National Uranium Company

Site Name	Facility Name	Facilities Defined	
Banat	Banat		storage
Bihar	Bihar		storage
Feldioara	Cetatuia 1		storage
	Cetatuia 2		storage
	Disposal		storage
	Mittelzop		storage
	Storage		storage
Suceava	Suceava		storage

<b>Reporting Group:</b>	<b>National Total</b>
Inventory Reporting Date:	December 2013
Waste Matrix Used:	National
Description:	

Site Name	Facility Name	Facilities Defined	
NT	ND		disposal
	NS		storage

<b>Reporting Group:</b>	<b>Non-Power</b>
Inventory Reporting Date:	December 2013
Waste Matrix Used:	IAEA Def.
Description:	Non-Power group is reporting the waste originating from non-power applications, except uranium mining and milling waste, which is not reported in this database.

Site Name	Facility Name	Facilities Defined	
NIPNE	DNDR		disposal
	STDR-Mag	processing	storage
NRI	LEPI		storage
	STDR-Pit	processing	

## Groups Overview

Country: ROMANIA

Reporting Year: 2013

<b>Reporting Group:</b>	<b>NPP</b>		
Inventory Reporting Date:	December 2013		
Waste Matrix Used:	NPP waste		
Description:	NPP Group is reporting the waste stored at NPP Cernavoda site.		
Site Name	Facility Name	Facilities Defined	
CNE - PROD	DIDR		storage

## Site (Structure) : Banat

Country: ROMANIA

Reporting Year: 2013

Full Name: Banat Subsidiary

Description:

Official Website:

License Holder(s): CNU

Waste management facilities that are located at this site:

<b>Facility:</b>	<b>Banat</b>
Description:	Mining site
Detailed Facility Description:	Storage of sterile and radioactive rocks
Waste Packages:	N/A
Financing:	State budget

**Storage part of facility Banat**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	No	No
LLW	No	No
ILW	No	No
HLW	No	No

List SRS?	No
List UMMT?	Yes

Capacity:	
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## Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Banat	not in list	1978	Yes	No	No	No

## Site (Structure) : Bihor

Country: ROMANIA

Reporting Year: 2013

Full Name: Bihor Subsidiary

Description:

Official Website:

License Holder(s): CNU

Waste management facilities that are located at this site:

<b>Facility:</b>	<b>Bihor</b>
Description:	Mining sites
Detailed Facility Description:	storage of steril rock dumps
Waste Packages:	N/A
Financing:	State Budget

**Storage part of facility Bihor**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	No	No
LLW	No	No
ILW	No	No
HLW	No	No

List SRS?	No
List UMMT?	Yes

Capacity:	storage of steril rock dumps
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## Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Bihor	not in list	1978	Yes	No	No	No

## Site (Structure) : Feldioara

Country: ROMANIA

Reporting Year: 2013

Full Name: Feldioara Subsidiary

Description:

Official Website:

License Holder(s): CNU

Waste management facilities that are located at this site:

<b>Facility:</b>	<b>Cetatuia 1</b>
Description:	Tailing ponds
Detailed Facility Description:	Tailing ponds for mill tailings
Waste Packages:	N/A
Facility Operation:	Facility is operated by National Uranium Company
Financing:	State Budget

**Storage part of facility Cetatuia 1**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	No	No
LLW	No	No
ILW	No	No
HLW	No	No

List SRS?	No
List UMMT?	Yes

Capacity:	The total estimated tailings discharged is about 4,500,000 tons and the total surface of this first part is 368,000 m <sup>2</sup> . The closure of the pond will transform it in a repository.
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## Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Cetatuia 1	trench (unlined)	1978	No	No	No	No



## Site (Structure) : Feldioara

Country: ROMANIA

Reporting Year: 2013

<b>Facility:</b>	<b>Cetatuia 2</b>
Description:	Tailing ponds
Detailed Facility Description:	Tailing ponds for mill tailings
Waste Packages:	N/A
Facility Operation:	Facility is operated by National Uranium Company. It was commissioned in 2001, after completion of complex insulation work.
Financing:	State budget

**Storage part of facility****Cetatuia 2**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	No	No
LLW	No	No
ILW	No	No
HLW	No	No

List SRS?	No
List UMMT?	Yes

Capacity:	The discharging capacity is estimated at 880,000 tones of tailings, on a 133,000 m <sup>2</sup>
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## Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Cetatuia 2	trench (lined)	2001	No	No	No	No

## Site (Structure) : Feldioara

Country: ROMANIA

Reporting Year: 2013

<b>Facility:</b>	<b>Disposal</b>
Description:	Disposal facility type trench
Detailed Facility Description:	Low activity solid waste disposal facility
Waste Packages:	N/A
Facility Operation:	Facility is operated by National Uranium Company since 2001
Financing:	Stata Budget

**Storage part of facility****Disposal**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	No	No
LLW	No	No
ILW	No	No
HLW	No	No

List SRS?	No
List UMMT?	Yes

Capacity:	
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## Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Disposal	trench (lined)	2001	No	No	No	No

## Site (Structure) : Feldioara

Country: ROMANIA

Reporting Year: 2013

<b>Facility:</b>	<b>Mittelzop</b>
Description:	Waste waters tailing pond
Detailed Facility Description:	The final tailings settling of fines, receiving the inflow from the Cetatuia pond waters.
Waste Packages:	N/A
Facility Operation:	The facility is operated by national Uranium Company.
Financing:	State Budget

**Storage part of facility Mittelzop**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	No	No
LLW	No	No
ILW	No	No
HLW	No	No

List SRS?	No
List UMMT?	Yes

Capacity:	storage capacity is 300 000m3
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## Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Mittelzop	lake (closed)	1978	Yes	Yes	No	No

## Site (Structure) : Feldioara

Country: ROMANIA

Reporting Year: 2013

<b>Facility:</b>	<b>Storage</b>
Description:	Trench type storage facilities
Detailed Facility Description:	Old trench type storage facilities for low activity solid waste
Waste Packages:	N/A
Facility Operation:	Facility is operated by National Uranium Company
Financing:	State budget

**Storage part of facility****Storage**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	No	No
LLW	No	No
ILW	No	No
HLW	No	No

List SRS?	No
List UMMT?	Yes

Capacity:	the storage capacity is 15 000m3
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## Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Storage	trench (unlined)	1978	No	No	No	No

## Site (Structure) : Suceava

Country: ROMANIA

Reporting Year: 2013

Full Name: Suceava subsidiary

Description:

Official Website:

License Holder(s): CNU

Waste management facilities that are located at this site:

<b>Facility:</b>	<b>Suceava</b>
Description:	Mining sites
Detailed Facility Description:	Storage of steril rock dumps
Waste Packages:	N/A
Financing:	State budget

**Storage part of facility Suceava**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	No	No
LLW	No	No
ILW	No	No
HLW	No	No

List SRS?	No
List UMMT?	Yes

Capacity:	N/A
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## Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Suceava	not in list	1978	No	No	No	No

## Site (Structure) : NT

Country: ROMANIA

Reporting Year: 2013

Full Name:

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

<b>Facility:</b>	<b>ND</b>		
<b>Description:</b>			
<b>Disposal part of facility</b>	<b>ND</b>		
The following shows disposal status for waste classes and SRS.			
<b>Waste Class</b>	<b>Actual</b>	<b>Planned</b>	
VLLW	No	No	
LILW-SL	Yes	No	
LILW-LL	No	No	
HLW	No	No	
<b>List SRS?</b>	No		
<b>List UMMT?</b>	No		
<b>Type:</b>	engineered near surface		
<b>Facility is modular?</b>	No		
<b>Depth (m):</b>		<b>Host medium:</b>	unknown (site not selected)
<b>Phase Name</b>	<b>Start Year</b>	<b>End Year</b>	<b>Estimate</b>

## Site (Structure) : NT

Country: ROMANIA

Reporting Year: 2013

<b>Facility:</b>	<b>NS</b>																
Description:																	
<b>Storage part of facility</b> <b>NS</b>																	
The following shows storage 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>VLLW</td><td>Yes</td><td>No</td></tr><tr><td>LILW-SL</td><td>Yes</td><td>No</td></tr><tr><td>LILW-LL</td><td>Yes</td><td>No</td></tr><tr><td>HLW</td><td>Yes</td><td>No</td></tr></tbody></table>	Waste Class	Actual	Planned	VLLW	Yes	No	LILW-SL	Yes	No	LILW-LL	Yes	No	HLW	Yes	No		
Waste Class	Actual	Planned															
VLLW	Yes	No															
LILW-SL	Yes	No															
LILW-LL	Yes	No															
HLW	Yes	No															
List SRS?	No																
List UMMT?	No																
Capacity:																	

## Site (Data) : NT

Stock of waste as at December 2013

Country: ROMANIA

Reporting Year: 2013

Site Name: NT

Full Name:

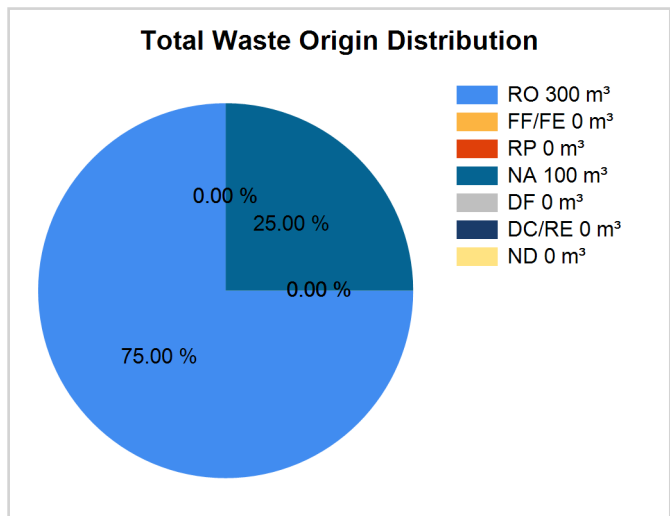
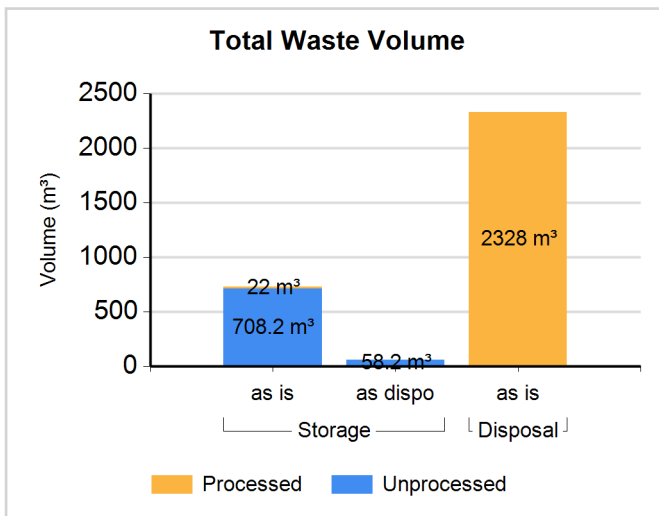
Inventory Reporting Date:

December 2013

Waste Matrix Used: National

## 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	N	703.700	53.700	100.00	0.00	0.00	0.00	0.00	0.00	0.00
LILW-SL	Storage	Y	N	22.000	22.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
LILW-SL	Disposal	Y	N	2328.000	198.000	0.00	0.00	0.00	100.00	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	N	4.500	4.500	100.00	0.00	0.00	0.00	0.00	0.00	0.00



## Site (Structure) : NIPNE

Country: ROMANIA

Reporting Year: 2013

Full Name: National Institute for Development & Research for Physics and Nuclear Engineering - Horia Hulubei

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

<b>Facility:</b>	<b>DNDR</b>
<b>Description:</b>	Disposal for LILW-SL and SL spent sources sited at Baita-Bihor, in a former uranium exploration mine (coastal gallery).

## Site (Structure) : NIPNE

Country: ROMANIA

Reporting Year: 2013

**Disposal part of facility**                      **DNDR**

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	No	No
LLW	Yes	No
ILW	No	No
HLW	No	No

List SRS?	No
List UMMT?	No

Type:	rock cavern (mountain/hill)		
Facility is modular?	No		
Capacity existing (m3):	1868	Capacity planned (m3):	5000

Depth (m):	0-40 m	Host medium:	sedimentary (other)
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Phase Name	Start Year	End Year	Estimate
planning and/or concept assessment	1970	1972	False
site selection	1972	1975	False
design	1975	1977	False
construction	1978	1981	False
commissioning	1981	1985	False
operation	1985	2030	True
closure	2030	2035	False
institutional control	2035	2335	False

## Site (Structure) : NIPNE

Country: ROMANIA

Reporting Year: 2013

<b>Facility:</b>	<b>STDR-Mag</b>
<b>Description:</b>	Storage of LL spent sources and LILW-LL

**Storage part of facility STDR-Mag**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	No	No
LLW	Yes	Yes
ILW	Yes	Yes
HLW	No	No

<b>List SRS?</b>	No
<b>List UMMT?</b>	No

<b>Capacity:</b>	
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## Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Storage	building	1975	No	No	Yes	Yes

**Processing part of facility STDR-Mag**

The following shows processing status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	No	No
LLW	Yes	No
ILW	Yes	No
HLW	No	No

<b>Type:</b>	Treatment, Conditioning
<b>Year opened:</b>	1975

## Site (Structure) : NRI

Country: ROMANIA

Reporting Year: 2013

Full Name: Authonomus Company for Nuclear Activities - Nuclear Research Institute Pitesti

Description:

Official Website:

License Holder(s): Authonomus Company for Nuclear Activities through Nuclear Research Institute Pitesti, Director Constantin Paunoiu  
tel.:+(40248)213400, fax:+(40248)262449

Waste management facilities that are located at this site:

<b>Facility:</b>	<b>LEPI</b>					
<b>Description:</b>	Post irradiation and examination laboratory, storage of fuel fragments and high activity spent sources. The sources are stored in pits sited in hot cells.					
<b>Storage part of facility LEPI</b>						
The following shows storage status for waste classes and SRS.						
<b>Waste Class</b>	<b>Actual</b>	<b>Planned</b>				
VLLW	No	No				
LLW	Yes	No				
ILW	Yes	No				
HLW	Yes	No				
<b>List SRS?</b>	No					
<b>List UMMT?</b>	No					
<b>Capacity:</b>	Capacity is not estimated					
<b>Types of Storage Units</b>						
<b>Storage Unit Name</b>	<b>Type Name</b>	<b>Year Opened</b>	<b>Closed?</b>	<b>Full?</b>	<b>Modular?</b>	<b>Contains SRS?</b>
Stor.cells	pit	1985	No	No	Yes	Yes

## Site (Structure) : NRI

Country: ROMANIA

Reporting Year: 2013

<b>Facility:</b>	<b>STDR-Pit</b>		
<b>Description:</b>	Radioactive waste treatment facility for LILW-SL (solid & liquid radwaste)		
<b>Processing part of facility</b>		<b>STDR-Pit</b>	
The following shows processing status for waste classes and SRS.			
<b>Waste Class</b>	<b>Actual</b>	<b>Planned</b>	
VLLW	No	No	
LLW	Yes	No	
ILW	Yes	No	
HLW	No	No	
<b>Type:</b>	Treatment, Conditioning		
<b>Year opened:</b>	1978		

## Site (Structure) : CNE - PROD

Country: ROMANIA

Reporting Year: 2013

Full Name: National Company NUCLEARELECTRICA, CNE -PROD

Description:

Official Website:

License Holder(s): National Company NUCLEARELECTRICA, CNE -PROD,  
General Director Theodor Chirica

Waste management facilities that are located at this site:

<b>Facility:</b>	<b>DIDR</b>
<b>Description:</b>	Storage facility for operational radioactive waste.

**Storage part of facility DIDR**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Type 1	Yes	No
Type 2	Yes	No
Type 3	Yes	No

List SRS?	No
List UMMT?	No

Capacity:	1400 cubic meters
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## Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
DIDR	building	1996	No	No	No	No

## Regulators

Country: ROMANIA

Reporting Year: 2013

<b>Name:</b>	<b>CNCAN</b>
Full Name:	National Commission for Nuclear Activities Control
Divison:	Radioactive Waste and Decommissioning Section
City or Town:	Bucharest
Main Website:	

Comment **# 6607: Wastes that are regulated by the Regulator**

Matrix IAEA Def. - HLW, LILW-LL, LILW-SL; Matrix NPP waste - type 1, type 2, type 3

## Regulations / Laws

Country: ROMANIA

Reporting Year: 2013

<b>Name:</b>	<b>Law 111</b>	
Title or Name:	Law 111/1996 (as amended) on safe deployment of nuclear activities	
Reference Number:	111/1996	
Date Promulgated or Proclaimed:	12/28/1996	Law

Comment **# 6608: Wastes that are regulated by the Law**  
 Matrix IAEA Def. - HLW, LILW-LL, LILW-SL; Matrix NPP waste - type 1, type 2, type 3

Comment **# 14618: Regulation Law 111**  
 The law was ammended and republished in 2006

Attachment **#1379: Regulation**  
 Law no 111 of 1996\_2006.pdf

<b>Name:</b>	<b>NSR-01</b>	
Title or Name:	Radiation Safety Fundamental Norms approved by the order of the President of National Commission for Nuclear Activities Control	
Reference Number:	Order 14/2001	
Date Promulgated or Proclaimed:	8/29/2000	Regulation

Comment **# 6609: Wastes that are regulated by the Regulation**  
 Matrix IAEA Def. - HLW, LILW-LL, LILW-SL; Matrix NPP waste - type 1, type 2, type 3

Attachment **#1380: Regulation**  
 o14\_2000 transposing 96\_29.pdf

<b>Name:</b>	<b>NDR-01</b>	
Title or Name:	Fundamentals Norms for the Safe Management of Radioactive Waste	
Reference Number:	president order no. 56/2004	
Date Promulgated or Proclaimed:	5/4/2004	Regulation

Comment **# 9739: Regulation NFGSDR**  
 The regulation NFGSDR is based on the IAEA Safety Series 111-F" The Principles of Radioactive Waste Management" and contains the principles of radioactive waste management as well as the requirements for fulfilling of these principles.

Attachment **#1381: Regulation**  
 CNCAN order 56 - safe management of radwaste.pdf



## Regulations / Laws

Country: ROMANIA

Reporting Year: 2013

<b>Name:</b>	<b>NDR-02</b>		
Title or Name:	Norms for the clearance levels of radioactive originated by nuclear activities		
Reference Number:	president order no. 62/2004		
Date Promulgated or Proclaimed:	5/4/2004	Regulation	

Attachment **#1382: Regulation**  
 CNCAN Order 62\_2004\_clearance\_regulation.pdf

<b>Name:</b>	<b>Law 320</b>		
Title or Name:	Law no. 320/2003 on the management including disposal of nuclear spent fuel and radioactive waste		
Reference Number:	Law no. 320/2003 on the approval of GO no. 11/2003		
Date Promulgated or Proclaimed:	7/22/2003	Law	

Comment **# 9738: Regulation 320/2003**

The law establish the legislative framework for the management of nuclear spent fuel and radioactive waste . According to this law the National Agency for Radioactive Waste(ANDRAD) is set up. ANDRAD is an authority which has as the main role the coordination of at the national level of the process of safe management of nuclear spent fuel and radioactive waste resulted from operation of research reactors, nuclear power plants, decommissioning of nuclear and radiological facilities and of radioactive waste resulted from application of radiation in industry, medicine, etc.

<b>Name:</b>	<b>Law 105</b>		
Title or Name:	Law no. 105/1999 on the ratification of the Vienna Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management		
Reference Number:	Law 105/1999		
Date Promulgated or Proclaimed:	6/16/1999	Law	

<b>Name:</b>	<b>NDR-03</b>		
Title or Name:	Norms on the classification of radioactive waste		
Reference Number:	approved by order 156/2005		
Date Promulgated or Proclaimed:	7/4/2005	Regulation	

Attachment **#1383: Regulation**  
 CNCAN Order\_156\_2005\_clasification of radwaste.pdf

## Regulations / Laws

Country: ROMANIA

Reporting Year: 2013

<b>Name:</b>	<b>NDR-04</b>	
Title or Name:	Norms on the limiting of effluents release into environment	
Reference Number:	approved by order 221/2005	
Date Promulgated or Proclaimed:	9/9/2005	Regulation

<b>Name:</b>	<b>NDR-05</b>	
Title or Name:	Regulation for General requirements for near surface disposal of radioactive waste approved by president order 400/2005	
Reference Number:	Order 400_2005	
Date Promulgated or Proclaimed:	4/17/2006	Regulation

Attachment **#1384: Regulation**  
 CNCAN order 400\_2005\_near surface disposal.pdf

<b>Name:</b>	<b>NSN-15</b>	
Title or Name:	Regulation for decommissioning of nuclear facilities	
Reference Number:	Order 181_2002	
Date Promulgated or Proclaimed:	12/2/2002	Regulation

Attachment **#1385: Regulation**  
 CNCAN order\_181\_2002\_on decommissioning of nuclear facilities.pdf

Country: ROMANIA

Reporting Year: 2013

## Policies

Country: ROMANIA

Reporting Year: 2013

## National Systems

Policy	(Yes;Partially;No)
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Q14	Has your Country implemented a national policy for radioactive waste management?	Yes
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Comment **# 7422: national strategy**

The national strategy has been approved by the Order of the Nuclear Agency President no. 844/2004 on the approval of the National strategy on medium and long term relating the management of nuclear spent fuel and radioactive waste, including disposal and decommissioning of nuclear and radiological facilities. this document establishes both strategy and policy of radioactive waste management.

Strategies	(Yes;Partially;No)
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Q15	Has your country developed strategies to implement a national policy?	Yes
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Comment **# 7423: national strategy**

The national strategy has been approved by the Order of the Nuclear Agency President no. 844/2004 on the approval of the National strategy on medium and long term relating the management of nuclear spent fuel and radioactive waste, including disposal and decommissioning of nuclear and radiological facilities. this document establishes both strategy and policy of radioactive waste management.

Requirements	(Yes;Partially;No)
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Q17	identified the parties involved in the different steps of radioactive waste management	Yes
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Q18	specified a rational set of safety, radiological and environmental protection objectives	Yes
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Q19	implemented a mechanism to identify existing and anticipated radioactive wastes	Yes
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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
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Q23	implemented appropriate research and development to support the operational and regulatory needs	Partially
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Q24	implemented a funding structure and the allocation of resources that are essential for radioactive waste management	Yes
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Q25	implemented formal mechanisms for disseminating information to the public and for public consultation	Yes
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Comment **# 315: funding of waste management and decommissioning**

Law 111/1996 (as amended) requires the issuing of a law on radwaste management & decommissioning funds. The draft law is under review. It will establish the mechanism for funding waste management and decommissioning.

## Policies

Country: ROMANIA

Reporting Year: 2013

Responsibilities		(Complete;Incomplete)
Q28	establish and implement a legal framework for the management of radioactive waste	Incomplete
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	Incomplete
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

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"?	Yes
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

Comment **# 9740: Policies National Systems-Clearance**

According to the NSR-01 the clearance levels are defined. The regulation NDR-02 on the clearance levels of materials originated from nuclear activities establishes the methodologies for approving by competent authority of the conditional and unconditional clearance levels of materials arising from nuclear activities including from decommissioning.

## Policies

Country: ROMANIA

Reporting Year: 2013

## 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 - Some
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?	No
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	No
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	No

## Policies

Country: ROMANIA

Reporting Year: 2013

**Processing/Storage**

<b>Policies/Procedures</b>		<b>(Yes;No)</b>
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)	Yes
Q78	Does your country have any legislation, regulation, or policy that waste processing must take place prior to storage (see following note)	Yes
<b>Implementation</b>		<b>(Yes;No)</b>
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
<b>Foreign</b>		<b>(Yes;No)</b>
Q121	Has your country sent any wastes or spent fuel to another country for processing (reprocessing for fuel)?	No
Q124	Has your country accepted any wastes or spent fuel from another country for processing (reprocessing for fuel)?	No

## Policies

Country: ROMANIA

Reporting Year: 2013

## Spent/Disused SRS

Registration		(Yes;No)
Q84	Is there a national level registry?	No
Q87	Are there regional-level registries (one or more)?	No
Q90	Are there local-level registries (one or more)?	Yes
Q115	If the answer was yes, are any registries used only for disused/spent SRS?	Yes

Comment **# 9741: Policies Spent SRS-Registration**

Each authorised waste management facility has own registry destined only for the disused/spent sealed radioactive sources.

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

Comment **# 9743: Policies Spent SRS-Agreements**

The import of sealed radioactive sources is issued to the authorised importers. The importers have to have the agreements with users in case the sealed sources become disused or spent sources. These agreement stipulate the obligation of the user to resent the spent sealed sources to the original supplier or to transfer the spent sealed sources as radioactive waste to a authorised waste management facility.

Release / Disposal		(Yes;No)
Q99	Does your Country have any regulations to free-release spent sealed radioactive sources (SRS)?	Yes
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?	Yes
Q103	Does your Country have plans to implement dedicated disposal facilities for spent SRS?	No

Comment **# 9744: Policies Spent SRS-Release / Disposal**

Th free release of SRS are prohibited in Romania. Each SRS has to be transfered to an authorised waste management facility. In Romania there is a disposal facility which can accomodate the SRS.



Country: ROMANIA

Reporting Year: 2013

**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)? Yes

Comment **# 9742: Policies Import-Export-Radioactive Waste**

According to the law 111/1996 the import of radioactive waste is prohibited.  
According to the NDR-01 the export of radioactive waste is permitted only into the countries which have technical and administrative capability and have the regulatory internal structure able to permit the safe management of radioactive waste.

**Spent Fuel****(Yes;No)**

Q105 Does your Country have laws or Regulations restricting either the import or export of spent fuel? Yes

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

Q106 Does your Country have high-level liquid wastes in storage? No

**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

Country: ROMANIA

Reporting Year: 2013

**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? No

Comment **# 310: decommissioning fund**

The draft law on waste management and decommissioning fund is under review. After entering into force of the law, the requirement for establishing of decommissioning fund will enter into force

**Facilities****(Yes;No)**

Q119 Does Your Country have any nuclear fuel cycle facilities? Yes

Q120 Does Your Country have any nuclear applications facilities (non fuel cycle facilities)? Yes

**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? No

Q113 Does your Country require a time frame for the decommissioning of non-nuclear fuel cycle facilities once these facilities cease operation? No

Comment **# 318: Time frame for decommissioning**

After the facility ceases to operate, it shall remain authorized. The costs for maintaining safety and protection, the liabilities, the availability of decommissioning techniques and waste management capabilities will establish the time frame for decommissioning. However, the decommissioning plan and the decommissioning authorization of nuclear installations shall include time frame for the various stages of decommissioning.

## Radionuclide Inventory by Waste Class

Country: ROMANIA

Reporting Year: 2013

**No data available.**

**No data available.**

**No data available.**

**No data available.**

**No data available.**

**No data available.**

**No data available.**

**No data available.**

**No data available.**

**No data available.**

**No data available.**

**Spent Fuel Inventory**

Country: ROMANIA

Reporting Year: 2013

**Spent Fuel in Storage**

Spent Fuel (tHM):	2289
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**Spent Fuel in Disposal**  
No data available.

# Waste Management Infrastructure and Financing

Country: ROMANIA

Reporting Year: 2013

## National Infrastructure

Nuclear Energy Context:	
Research & Development:	
Policies and Programs:	
Decommissioning and Dismantling:	
Legal Framework:	
Planned Improvements:	

## National Financing

Nuclear installations:	
Legacy Wastes:	
Medical installations:	
Extractive Industries:	
Additional Comments:	

## Waste Management Organisations

Country: ROMANIA

Reporting Year: 2013

<b>Name:</b>	
Full Name:	
Description:	
Address:	
Main Website:	
Year Established:	1
Legal Nature:	Public

**Waste Management Strategies**

Country: ROMANIA

Reporting Year: 2013

<b>Waste Class</b>	
Strategy	

## Waste Management Responsibility

Country: ROMANIA

Reporting Year: 2013

<b>Waste Class:</b>	
Regulatory Authority:	
Treatment/Conditioning of Radioactive Waste:	
Transport of Radioactive Waste:	
Development/operation of interim Storage Facilities:	
Development/operation of Disposal Facilities:	
Waste Management Organisation:	
Additional Comments:	



**Main Waste Producers**

Country: ROMANIA

Reporting Year: 2013

Name:	
Full Name:	
Description:	
Address:	
Main Website:	

## Future Outlook

Country: ROMANIA

Reporting Year: 2013

### **Outlook for the year: 2030**

**Data not available.**

### **Outlook for the year: 2050**

**Data not available.**

### **Outlook for the year: 2100**

**Data not available.**