



**Country Waste Profile Report for
ROMANIA
Reporting Year: 2005**

*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: 2005

Waste Class Matrix: **IAEA Def.**

This country does use the IAEA Scheme: Yes

Description: The Agency's standard matrix

| Waste Class Name | Distribution % | | |
|------------------|----------------|---------|-------|
| | LILW-SL | LILW-LL | HLW |
| LILW-SL | 100.0 | 0.0 | 0.0 |
| LILW-LL | 0.0 | 100.0 | 0.0 |
| HLW | 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**

Description: type 1: nominal activity less than 7.5E09 Bq/m³ (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/m³; or gamma dose rate between 2 mGy/h and 125 mGy/h at container surface
type 3: nominal activity higher than 3.7E12 Bq/m³; or gamma dose rate higher than 125 mGy/h at container surface

| Waste Class Name | Distribution % | | |
|------------------|----------------|---------|-----|
| | LILW-SL | LILW-LL | HLW |
| type 1 | 100.0 | 0.0 | 0.0 |
| type 2 | 40.0 | 60.0 | 0.0 |
| type 3 | 0.0 | 100.0 | 0.0 |

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.

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

This country uses the following definitions:

| | 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: 2005

| | |
|---------------------------|--|
| Reporting Group: | Non-Power |
| Inventory Reporting Date: | December 2005 |
| Waste Matrix Used: | IAEA Def. |
| Description: | Non-Power group is reporting the waste originated from non-power application, except the 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 | | |

| | |
|---------------------------|--|
| Reporting Group: | NPP |
| Inventory Reporting Date: | December 2005 |
| 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) : NIPNE

Country: ROMANIA

Reporting Year: 2005

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

Description:

Official Website:

License Holder(s): NIPNE, General Director dr. Nicolae Victor Zamfir,
tel.:+(4021)4042300, fax:+(4021)4574440

Waste management facilities that are located at this site:

| | |
|---------------------|---|
| Facility: | DNDR |
| Description: | 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: 2005

Disposal part of facility **DNDR**

The following shows disposal status for waste classes and SRS.

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

| | |
|------------|----|
| List SRS? | No |
| List UMMT? | No |

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

| | | | |
|------------|--------|--------------|---------------------|
| Depth (m): | 0-40 m | Host medium: | sedimentary (other) |
|------------|--------|--------------|---------------------|

| 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: 2005

| | |
|---------------------|---|
| Facility: | STDR-Mag |
| Description: | 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 |
|-------------|--------|---------|
| LILW-SL | Yes | Yes |
| LILW-LL | Yes | Yes |
| HLW | 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? |
|-------------------|-----------|-------------|---------|-------|----------|---------------|
| 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 |
|-------------|--------|---------|
| LILW-SL | Yes | No |
| LILW-LL | Yes | No |
| HLW | No | No |

| | |
|---------------------|-------------------------|
| Type: | Treatment, Conditioning |
| Year opened: | 1975 |

Site (Data) : NIPNE

Stock of waste as at December 2005

Country: ROMANIA

Reporting Year: 2005

Site Name: NIPNE

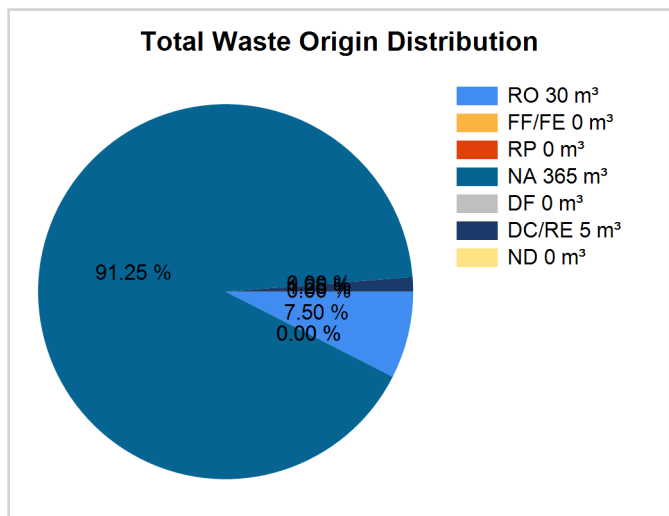
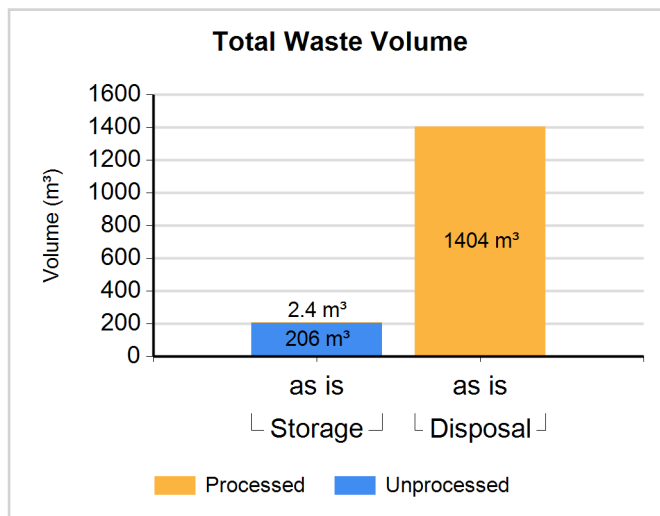
Full Name: National Institute for Development&Research for Physics and Nuclear Engineering - "Horia Hulubei"

Inventory Reporting Date: December 2005

Waste Matrix Used: IAEA Def.

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 | 200.000 | 200.000 | 0.00 | 0.00 | 0.00 | 95.00 | 0.00 | 5.00 | 0.00 |
| LILW-SL | Disposal | Y | N | 1404.000 | 1404.000 | 30.00 | 0.00 | 0.00 | 70.00 | 0.00 | 0.00 | 0.00 |

Comment # 6610: The additional characteristics of the waste

Unprocessed: solid (non-dispersible)

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 | 6.000 | 6.000 | 0.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 |
| LILW-LL | Storage | Y | N | 2.400 | 2.400 | 0.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 |

Comment # 6612: The additional characteristics of the waste

Unprocessed: solid (non-dispersible)

Comment # 12222: Waste Storage facilities/Class LILW-LL/Site NIPNE

The processed waste refers to the radium spent sealed radioactive sources conditioned for long term storage

Site (Data) : NIPNE

Stock of waste as at December 2005

Country: ROMANIA

Reporting Year: 2005

Processing - Treatment method(s)

| Method | Status | | | |
|--------------------------|---------|-------------|---|---------------|
| | Planned | R&D program | Current practice method use over the last 5 years | Past Practice |
| Chemical Precipitation | N | N | Suspended | N |
| Compaction | N | N | Same | N |
| Decontamination | N | N | Same | N |
| Evaporation | N | N | Suspended | N |
| Filtration | N | N | Suspended | N |
| Incineration | N | N | Same | N |
| Ion Exchange | N | N | Suspended | N |
| Shredding and Compaction | N | N | Same | N |

Comment # 9745: Waste Treatment on Site NIPNE

The authorization of installation for the treatment of liquid radioactive waste was suspended by competent authority (CNCAN). The owner of the installation has the intention to purchase a new liquid treatment installation.

Processing - Conditioning method(s)

| Method | Status | | | |
|----------------|---------|-------------|---|---------------|
| | Planned | R&D program | Current practice method use over the last 5 years | Past Practice |
| Bituminization | N | Y | | N |
| Cementation | N | N | Same | N |
| Polymerization | N | Y | | N |

Site (Structure) : NRI

Country: ROMANIA

Reporting Year: 2005

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 prof.dr. Serban Constantin Valeca
tel.:+(40248)213400, fax:+(40248)262449

Waste management facilities that are located at this site:

| | | | | | | |
|---|---|--------------------|----------------|--------------|-----------------|----------------------|
| Facility: | LEPI | | | | | |
| Description: | Post irradiation laboratory, storing fuel fragments and high activity spent sources. The sources are stored in pits sited in hot cells. | | | | | |
| Storage part of facility LEPI | | | | | | |
| The following shows storage status for waste classes and SRS. | | | | | | |
| Waste Class | Actual | Planned | | | | |
| LILW-SL | Yes | Yes | | | | |
| LILW-LL | Yes | Yes | | | | |
| HLW | Yes | Yes | | | | |
| List SRS? | No | | | | | |
| List UMMT? | No | | | | | |
| Capacity: | | | | | | |
| Types of Storage Units | | | | | | |
| Storage Unit Name | Type Name | Year Opened | Closed? | Full? | Modular? | Contains SRS? |
| Stor.cells | pit | 1985 | No | No | Yes | Yes |

Site (Structure) : NRI

Country: ROMANIA

Reporting Year: 2005

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

Site (Data) : NRI

Stock of waste as at December 2005

Country: ROMANIA

Reporting Year: 2005

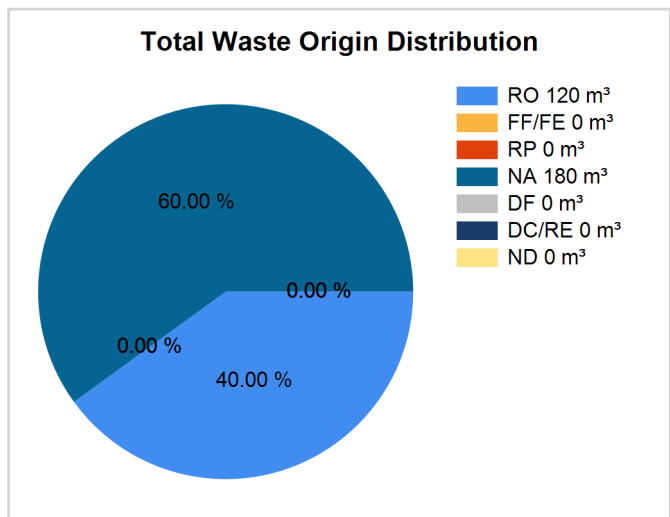
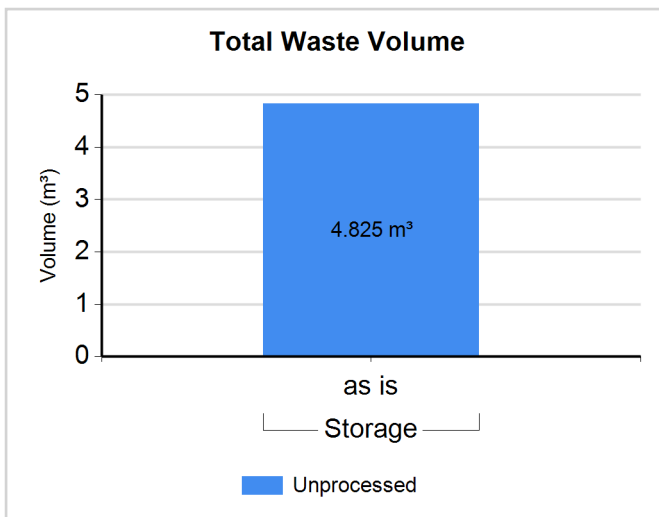
Site Name: NRIFull Name: Authonomus Company for Nuclear Activities - Nuclear Research
Institute Pitesti

Inventory Reporting Date: December 2005

Waste Matrix Used: IAEA Def.

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 | 3.000 | 3.000 | 0.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 |

Comment # 6614: The additional characteristics of the waste

Unprocessed: solid (dispersible), solid (non-dispersible)

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 | 1.800 | 1.800 | 20.00 | 0.00 | 0.00 | 80.00 | 0.00 | 0.00 | 0.00 |

Comment # 6615: The additional characteristics of the waste

Unprocessed: solid (dispersible), solid (non-dispersible)

Waste Class: HLW

| Waste Class Name | Location / Facility | Proc | Est. | Volume "as is" (m³) | Volume "as dispo" (m³) | RO % | FF/FE % | RP % | NA % | DF % | DC/RE % | ND % |
|------------------|---------------------|------|------|---------------------|------------------------|--------|---------|------|------|------|---------|------|
| HLW | Storage | N | N | 0.025 | 0.025 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Comment # 6616: The additional characteristics of the waste

Unprocessed: solid (dispersible), solid (non-dispersible)

Site (Data) : NRI

Stock of waste as at December 2005

Country: ROMANIA

Reporting Year: 2005

Processing - Treatment method(s)

| Method | Status | | | |
|---------------------|---------|-------------|---|---------------|
| | Planned | R&D program | Current practice method use over the last 5 years | Past Practice |
| Decontamination | N | N | Same | N |
| Evaporation | N | N | Same | N |
| Membrane Technology | N | Y | | N |

Processing - Conditioning method(s)

| Method | Status | | | |
|----------------|---------|-------------|---|---------------|
| | Planned | R&D program | Current practice method use over the last 5 years | Past Practice |
| Bituminization | N | N | Same | N |
| Cementation | N | N | Same | N |

Site (Structure) : CNE - PROD

Country: ROMANIA

Reporting Year: 2005

Full Name: National Company NUCLEARELECTRICA, CNE -PROD

Description:

Official Website:

License Holder(s): National Company NUCLEARELECTRICA, CNE -PROD,
General Director Theodor Chirica, tel.:+(401)3120800, fax:+(401)3120800

Waste management facilities that are located at this site:

| | |
|---------------------|---|
| Facility: | DIDR |
| Description: | 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 | Yes |
| type 2 | Yes | Yes |
| type 3 | No | No |

| | |
|------------|----|
| List SRS? | No |
| List UMMT? | No |

| | |
|-----------|-------------------|
| Capacity: | 1400 cubic meters |
|-----------|-------------------|

Types of Storage Units

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

Site (Data) : CNE - PROD

Stock of waste as at December 2005

Country: ROMANIA

Reporting Year: 2005

Site Name: CNE - PROD

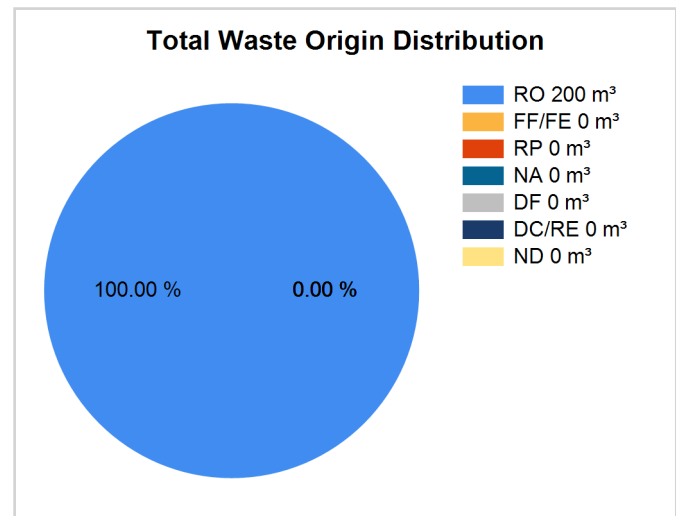
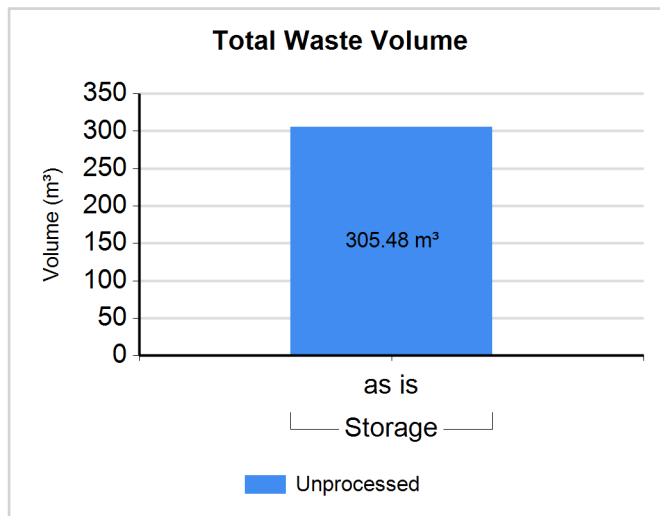
Full Name: National Company NUCLEARELECTRICA, CNE -PROD

Inventory Reporting Date: December 2005

Waste Matrix Used: NPP waste

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: type 1

| Waste Class Name | Location / Facility | Proc | Est. | Volume "as is" (m³) | Volume "as dispo" (m³) | RO % | FF/FE % | RP % | NA % | DF % | DC/RE % | ND % |
|------------------|---------------------|------|------|---------------------|------------------------|--------|---------|------|------|------|---------|------|
| type 1 | Storage | N | N | 237.980 | 237.980 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Comment # 6617: The additional characteristics of the waste

Unprocessed: flammable, liquid (organic), resin, solid (dispersible), solid (non-dispersible)

Waste Class: type 2

| Waste Class Name | Location / Facility | Proc | Est. | Volume "as is" (m³) | Volume "as dispo" (m³) | RO % | FF/FE % | RP % | NA % | DF % | DC/RE % | ND % |
|------------------|---------------------|------|------|---------------------|------------------------|--------|---------|------|------|------|---------|------|
| type 2 | Storage | N | N | 67.500 | 67.500 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Comment # 6618: The additional characteristics of the waste

Unprocessed: flammable, liquid (organic), resin, solid (dispersible), solid (non-dispersible)

Regulators

Country: ROMANIA

Reporting Year: 2005

| | |
|---------------|--|
| Name: | CNCAN |
| Full Name: | National Commission for Nuclear Activities Control |
| Divison: | Radiation Protection and Radioactive Waste 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: 2005

| | | |
|---------------------------------|---|-----|
| Name: | Law 111 | |
| Title or Name: | Law 111/1996 (as amended) on safe conduct 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

| | | |
|---------------------------------|---|------------|
| Name: | RSR-01 | |
| 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

| | | |
|---------------------------------|---|------------|
| Name: | NDR-01 | |
| 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.

| | | |
|---------------------------------|--|------------|
| Name: | NDR-02 | |
| 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 |

Regulations / Laws

Country: ROMANIA

Reporting Year: 2005

| | | |
|---------------------------------|---|-----|
| Name: | Law 320 | |
| 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.

| | | |
|---------------------------------|--|-----|
| Name: | Law 105 | |
| 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 |

| | | |
|---------------------------------|--|------------|
| Name: | NDR-03 | |
| 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 |

| | | |
|---------------------------------|---|------------|
| Name: | NDR-04 | |
| 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 |

Future Outlook

Country: ROMANIA

Reporting Year: 2005

Data not available.

Policies

Country: ROMANIA

Reporting Year: 2005

National Systems

| Policy | (Yes;Partially;No) |
|--------|--------------------|
|--------|--------------------|

| | | |
|-----|--|-----|
| Q14 | Has your Country implemented a national policy for radioactive waste management? | Yes |
|-----|--|-----|

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) |
|------------|--------------------|
|------------|--------------------|

| | | |
|-----|---|-----|
| Q15 | Has your country developed strategies to implement a national policy? | Yes |
|-----|---|-----|

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) |
|--------------|--------------------|
|--------------|--------------------|

| | | |
|-----|--|-----|
| 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 | Partially |
|-----|--|-----------|

| | | |
|-----|---|----|
| Q24 | implemented a funding structure and the allocation of resources that are essential for radioactive waste management | No |
|-----|---|----|

| | | |
|-----|---|-----------|
| Q25 | implemented formal mechanisms for disseminating information to the public and for public consultation | Partially |
|-----|---|-----------|

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: 2005

| 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 | Incomplete |
| 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: 2005

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 - Some |
| 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? | No |

Policies

Country: ROMANIA

Reporting Year: 2005

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) | Yes |
| Q78 | Does your country have any legislation, regulation, or policy that waste processing must take place prior to storage (see following note) | Yes |
| 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)? | 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: 2005

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 autorised 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 resnet 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)? | 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 |

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

Th free relase 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: 2005

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

Policies

Country: ROMANIA

Reporting Year: 2005

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? Yes - All

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

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.

Future Outlook

Country: ROMANIA

Reporting Year: 2005

Data not available.

Future Outlook

Country: ROMANIA

Reporting Year: 2005

Data not available.

Future Outlook

Country: ROMANIA

Reporting Year: 2005

Data not available.

Future Outlook

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Data not available.

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