



Country Waste Profile Report for LATVIA 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: LATVIA

Reporting Year: 2013

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 **# 30808:**

c

Waste Class Matrix: **M129**

Yes

Description: see the attachment for details (Latvian Regulation 129). Note, the Regulation states that the short lived waste has nuclides with half lives <30 days. This is an error in the translation and should have indicated < 30 years.

Waste Class Name	Distribution %			
	VLLW	LLW	ILW	HLW
Class A	100.0	0.0	0.0	0.0
Class B	0.0	90.0	10.0	0.0
Class C	0.0	0.0	80.0	20.0
Class D	0.0	0.0	0.0	100.0

Attachment **#991: Waste Matrix**

E0445.doc

Regulation 129 (Requirements for Operations with Radioactive Waste and Materials Related Thereto)

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

Groups Overview

Country: LATVIA

Reporting Year: 2013

Reporting Group:	Baldone
Inventory Reporting Date:	December 2013
Waste Matrix Used:	M129
Description:	

Site Name	Facility Name	Facilities Defined		
Radons	Treatment	processing		
	Vault 7		storage	
	Vaults 1-6			disposal

Reporting Group:	Total
Inventory Reporting Date:	December 2013
Waste Matrix Used:	M129
Description:	

Site Name	Facility Name	Facilities Defined		
NT	ND			disposal
	NS		storage	

Site (Structure) : Radons

Country: LATVIA

Reporting Year: 2013

Full Name:

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	Treatment															
Description:																
<p>Processing part of facility Treatment</p> <p>The following shows processing status for waste classes and SRS.</p> <table border="1"> <thead> <tr> <th>Waste Class</th> <th>Actual</th> <th>Planned</th> </tr> </thead> <tbody> <tr> <td>Class A</td> <td>No</td> <td>No</td> </tr> <tr> <td>Class B</td> <td>No</td> <td>No</td> </tr> <tr> <td>Class C</td> <td>No</td> <td>No</td> </tr> <tr> <td>Class D</td> <td>No</td> <td>No</td> </tr> </tbody> </table>		Waste Class	Actual	Planned	Class A	No	No	Class B	No	No	Class C	No	No	Class D	No	No
Waste Class	Actual	Planned														
Class A	No	No														
Class B	No	No														
Class C	No	No														
Class D	No	No														
Type:	Treatment, Conditioning															
Year opened:	2002															

Site (Structure) : Radons

Country: LATVIA

Reporting Year: 2013

Facility:	Vault 7															
Description:																
Storage part of facility Vault 7																
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>Class A</td><td>Yes</td><td>No</td></tr><tr><td>Class B</td><td>Yes</td><td>No</td></tr><tr><td>Class C</td><td>No</td><td>No</td></tr><tr><td>Class D</td><td>No</td><td>No</td></tr></tbody></table>	Waste Class	Actual	Planned	Class A	Yes	No	Class B	Yes	No	Class C	No	No	Class D	No	No	
Waste Class	Actual	Planned														
Class A	Yes	No														
Class B	Yes	No														
Class C	No	No														
Class D	No	No														
List SRS?	No															
List UMMT?	No															
Capacity:																

Site (Structure) : Radons

Country: LATVIA

Reporting Year: 2013

Facility:	Vaults 1-6		
Description:			
Disposal part of facility Vaults 1-6			
The following shows disposal status for waste classes and SRS.			
Waste Class	Actual	Planned	
Class A	Yes	No	
Class B	Yes	No	
Class C	No	No	
Class D	No	No	
List SRS?	No		
List UMMT?	No		
Type:	engineered near surface		
Facility is modular?	No		
Depth (m):		Host medium:	sedimentary (other)
Phase Name	Start Year	End Year	Estimate

Site (Data) : Radons

Stock of waste as at December 2013

Country: LATVIA

Reporting Year: 2013

Site Name: Radons

Full Name:

Inventory Reporting Date: December 2013

Waste Matrix Used: M129

Processing - Treatment method(s)

No data available.

Processing - Conditioning method(s)

No data available.

Site (Structure) : NT

Country: LATVIA

Reporting Year: 2013

Full Name:

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	ND		
Description:			
Disposal part of facility	ND		
The following shows disposal status for waste classes and SRS.			
Waste Class	Actual	Planned	
Class A	No	No	
Class B	Yes	No	
Class C	No	No	
Class D	No	No	
List SRS?	No		
List UMMT?	No		
Type:	engineered near surface		
Facility is modular?	No		
Depth (m):		Host medium:	unknown (site not selected)
Phase Name	Start Year	End Year	Estimate

Site (Structure) : NT

Country: LATVIA

Reporting Year: 2013

Facility:	NS		
Description:			
Storage part of facility NS			
The following shows storage status for waste classes and SRS.			
Waste Class	Actual	Planned	
Class A	No	No	
Class B	Yes	No	
Class C	No	No	
Class D	No	No	
List SRS?	No		
List UMMT?	No		
Capacity:			

Site (Data) : NT

Stock of waste as at December 2013

Country: LATVIA

Reporting Year: 2013

Site Name: NT

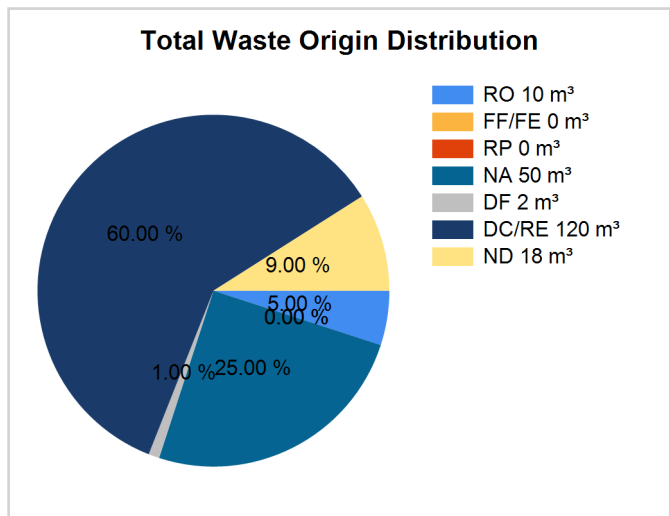
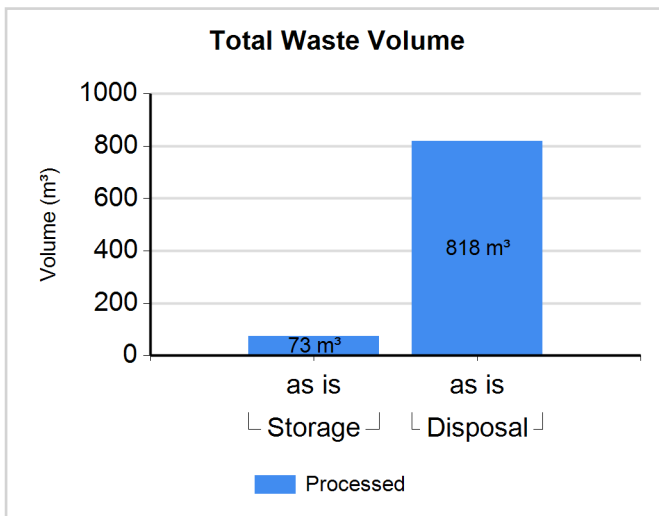
Full Name:

Inventory Reporting Date: December 2013

Waste Matrix Used: M129

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: Class B

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Class B	Storage	Y	N	73.000	73.000	0.00	0.00	0.00	5.00	0.00	90.00	5.00
Class B	Disposal	Y	N	818.000	818.000	10.00	0.00	0.00	45.00	2.00	30.00	13.00

Country: LATVIA

Reporting Year: 2013

Regulations / Laws

Country: LATVIA

Reporting Year: 2013

Country: LATVIA

Reporting Year: 2013

Policies

Country: LATVIA

Reporting Year: 2013

National Systems

Policy		(Yes;Partially;No)
Q14	Has your Country implemented a national policy for radioactive waste management?	Yes
Comment	# 9693: Policies National Systems-Policy	
	Only in Latvian.	
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	Partially
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	Yes
Q25	implemented formal mechanisms for disseminating information to the public and for public consultation	Partially
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	Incomplete
Q34	implement the licensing process	Incomplete
Q35	advise the government	Complete
Q37	identify an acceptable destination for the radioactive waste	Incomplete
Q114	comply with legal requirements	Complete

Policies

Country: LATVIA

Reporting Year: 2013

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	Partially
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	Partially
Q50	conduct or otherwise ensure appropriate research and development to support operational needs in radioactive waste management	Partially

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

Disposal Facilities

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
Q63	Does your Country have any written policies to address active institutional controls or passive institutional controls, such as monitoring or access restrictions?	Yes

Country: LATVIA

Reporting Year: 2013

Processing/Storage

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)
Q124	Has your country accepted any wastes or spent fuel from another country for processing (reprocessing for fuel)?	No

Spent/Disused SRS

Release / Disposal		(Yes;No)
Q99	Does your Country have any regulations to free-release spent sealed radioactive sources (SRS)?	Yes

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

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: LATVIA

Reporting Year: 2013

Decommissioning

	Facilities	(Yes;No)
Q119	Does Your Country have any nuclear fuel cycle facilities?	No
Q120	Does Your Country have any nuclear applications facilities (non fuel cycle facilities)?	No

Radionuclide Inventory by Waste Class

Country: LATVIA

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.

Spent Fuel Inventory

Country: LATVIA

Reporting Year: 2013

Spent Fuel

in Storage

No data available.

Spent Fuel

in Disposal

No data available.

Waste Management Infrastructure and Financing

Country: LATVIA

Reporting Year: 2013

National Infrastructure

Nuclear Energy Context:	
Research & Development:	
Policies and Programs:	
Decommissioning and Dismantling:	
Legal Framework:	<p>The basic documents related to RWM:</p> <ol style="list-style-type: none"> 1) The Law on Radiation and Nuclear Safety (2000). The law governs all activities involving radioactive or nuclear materials and all sources of ionizing radiation. It establishes the basic principles of radiation and nuclear safety (justification, optimisation and limitation) and also contains provisions on nuclear third party liability. 2) Cabinet Regulations "On Practices involving Radioactive Waste and related Materials" (2002) 3) Cabinet Regulations "Regulations for Protection against Ionizing Radiation" (2002), 4) Cabinet Regulations "Criteria and Principles for Determining Equivalence of Different Radioactive Waste" (2002). 5) Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management <p>Operators must provide all necessary information to the RSC showing that safety measures are being applied. The RSC may at any time withdraw or revoke licenses if radiation protection and nuclear safety requirements are not met.</p>
Planned Improvements:	

National Financing

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

Waste Management Organisations

Country: LATVIA

Reporting Year: 2013

Name:	
Full Name:	
Description:	
Address:	
Main Website:	
Year Established:	1
Legal Nature:	Public

Waste Management Strategies

Country: LATVIA

Reporting Year: 2013

Waste Class	
Strategy	

Waste Management Responsibility

Country: LATVIA

Reporting Year: 2013

Waste Class:	
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: LATVIA

Reporting Year: 2013

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

Future Outlook

Country: LATVIA

Reporting Year: 2013

Outlook for the year: 2030

Gross Nuclear Capacity (MW):	
Assumptions:	
Total Waste "as dispo" Volume in Storage (m ³):	650
Total Waste Volume in Disposal (m ³):	818
Assumptions:	
Total Spent Fuel in Storage (tHM):	
Total Spent Fuel in Disposal (tHM):	
Assumptions:	
Remaining Disposal Capacity for Volume of Waste (m3):	
Assumptions:	
Remaining Disposal Capacity for Spent Fuel (tHM):	
Assumptions:	

Future Outlook

Country: LATVIA

Reporting Year: 2013

Outlook for the year: 2050

Gross Nuclear Capacity (MW):	
Assumptions:	
Total Waste "as dispo" Volume in Storage (m ³):	60
Total Waste Volume in Disposal (m ³):	1800
Assumptions:	
Total Spent Fuel in Storage (tHM):	
Total Spent Fuel in Disposal (tHM):	
Assumptions:	
Remaining Disposal Capacity for Volume of Waste (m3):	
Assumptions:	
Remaining Disposal Capacity for Spent Fuel (tHM):	
Assumptions:	

Outlook for the year: 2100

Data not available.