



Country Waste Profile Report for HUNGARY Reporting Year: 2004

*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: HUNGARY

Reporting Year: 2004

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

Waste Class Matrix: **PURAM**

Description: LLW: low level waste ($A < 5 \times 10^5$ Bq/g)
 MLW: medium level waste, (5×10^5 Bq/g $< A < 5 \times 10^8$ Bq/g)
 HLW: high level waste (5×10^8 Bq/g $< A$)

Waste Class Name	Distribution %		
	LILW-SL	LILW-LL	HLW
LLW	100.0	0.0	0.0
MLW	0.0	100.0	0.0
HLW	0.0	90.0	10.0

Comment **# 319: determination of matrix percentages**

The percentages in both matrices are based upon waste characterization results, which provided a general understanding of the wastes in Hungary. These characteristics were compared with the specifications for the IAEA's waste classification scheme.

Waste Class Matrix: **PNPP**

Description: LLW: low level waste ($A < 5 \times 10^5$ Bq/g)
 MLW: medium level waste, (5×10^5 Bq/g $< A < 5 \times 10^8$ Bq/g)
 HLW: high level waste (5×10^8 Bq/g $< A$)

Waste Class Name	Distribution %		
	LILW-SL	LILW-LL	HLW
LLW	100.0	0.0	0.0
MLW	0.0	100.0	0.0
HLW	0.0	80.0	20.0

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

Is not defined

Groups Overview

Country: HUNGARY

Reporting Year: 2004

Reporting Group:	PNPP
Inventory Reporting Date:	December 2004
Waste Matrix Used:	IAEA Def.
Description:	Paks Nuclear Power Plant operational radioactive waste stored on-site

Site Name	Facility Name	Facilities Defined		
Paks	Compaction	processing		
	Evaporat.	processing		
	PaksStore		storage	

Reporting Group:	PURAM
Inventory Reporting Date:	December 2004
Waste Matrix Used:	IAEA Def.
Description:	Public Agency for Radioactive Waste Management

Site Name	Facility Name	Facilities Defined		
Püspökszil	SSRS			disposal
	STORAGE		storage	
	VAULTS	processing	storage	disposal
Üveghuta	DISPOSAL			disposal

Site (Structure) : Paks

Country: HUNGARY

Reporting Year: 2004

Full Name: Paks Nuclear Power Plant

Description:

Official Website:

License Holder(s): Paks Nuclear Power Plant Ltd.

Waste management facilities that are located at this site:

Facility:	Compaction													
Description:	solid waste compression													
<p>Processing part of facility Compaction</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>LILW-SL</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>LILW-LL</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>HLW</td> <td>No</td> <td>No</td> </tr> </tbody> </table>			Waste Class	Actual	Planned	LILW-SL	Yes	Yes	LILW-LL	Yes	Yes	HLW	No	No
Waste Class	Actual	Planned												
LILW-SL	Yes	Yes												
LILW-LL	Yes	Yes												
HLW	No	No												
Type:	Treatment													
Year opened:	1988													

Site (Structure) : Paks

Country: HUNGARY

Reporting Year: 2004

Facility:	Evaporat.												
Description:	Liquid waste evaporation												
Processing part of facility Evaporat.													
The following shows processing status for waste classes and SRS.													
<table border="1"><thead><tr><th>Waste Class</th><th>Actual</th><th>Planned</th></tr></thead><tbody><tr><td>LILW-SL</td><td>Yes</td><td>Yes</td></tr><tr><td>LILW-LL</td><td>Yes</td><td>Yes</td></tr><tr><td>HLW</td><td>No</td><td>No</td></tr></tbody></table>	Waste Class	Actual	Planned	LILW-SL	Yes	Yes	LILW-LL	Yes	Yes	HLW	No	No	
Waste Class	Actual	Planned											
LILW-SL	Yes	Yes											
LILW-LL	Yes	Yes											
HLW	No	No											
Type:	Treatment												
Year opened:	1985												

Site (Structure) : Paks

Country: HUNGARY

Reporting Year: 2004

Facility:	PaksStore
Description:	Storage for operational waste

Storage part of facility PaksStore

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:	1500 m3 for solid waste 7300 m3 for liquid waste 220 m3 for HLW
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
SOLID	building	1982	No	No	No	No
LIQUID	tank (other)	1982	No	No	No	No
SOLID_H	well	1982	No	No	No	No

Site (Data) : Paks

Stock of waste as at December 2004

Country: HUNGARY

Reporting Year: 2004

Site Name: Paks

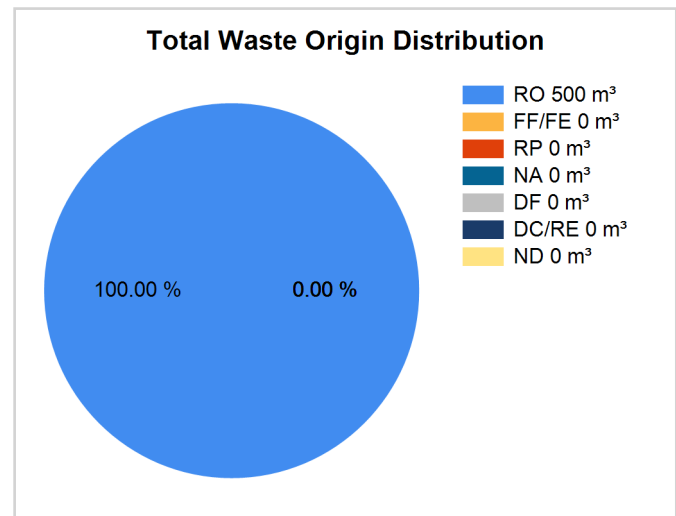
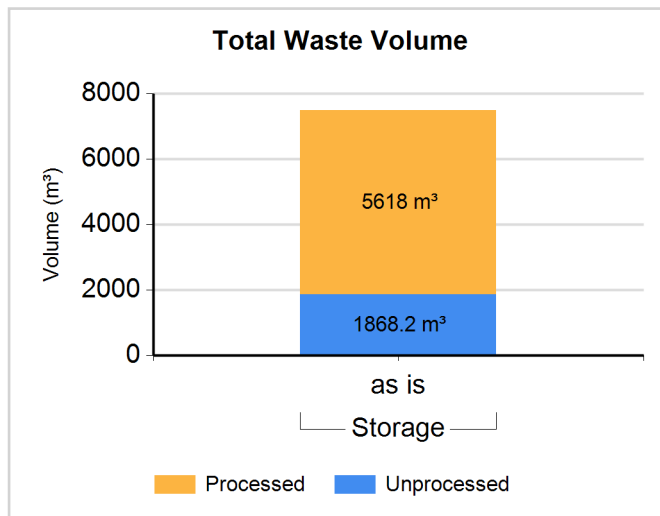
Full Name: Paks Nuclear Power Plant

Inventory Reporting Date: December 2004

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	355.000	355.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
LILW-SL	Storage	Y	N	1123.000	1123.000	100.00	0.00	0.00	0.00	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	1422.000	1422.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
LILW-LL	Storage	Y	N	4495.000	4495.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00

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	91.200	91.200	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Site (Data) : Paks

Stock of waste as at December 2004

Country: HUNGARY

Reporting Year: 2004

Processing - Treatment method(s)

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

Site (Structure) : Püspökszil

Country: HUNGARY

Reporting Year: 2004

Full Name: Püspökszilágy LILW Repository

Description:

Official Website:

License Holder(s): Public Agency for Radioactive Waste Management

Comment # 339: Percentage of Capacity Used

The percentage of disposal facility capacity used takes in to consideration the volume of waste plus losses due to voids, buffer and backfill materials

Waste management facilities that are located at this site:

Facility:	SSRS
Description:	SRS steel lined disposal wells (see comment 7620)

Site (Structure) : Püspökszil

Country: HUNGARY

Reporting Year: 2004

Disposal part of facility SSRS

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
LILW-SL	Yes	Yes
LILW-LL	Yes	Yes
HLW	Yes	Yes

List SRS?	Yes
List UMMT?	No

Type:	engineered surface		
Facility is modular?	No		
Capacity existing (m3):	2	Capacity planned (m3):	2

Depth (m):	6	Host medium:	sedimentary (other)
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Phase Name	Start Year	End Year	Estimate
site selection	1974	1974	False
design	1974	1974	False
construction	1974	1976	False
commissioning	1976	1977	False
operation	1977		False

Comment **# 7620: facility capacity**

The capacity (existing and planned) is 1.6 m3. The repository consists of an array of boreholes lined with stainless steel with an approximate diameter of 10-20 cm and 6 m deep.

The NEWMDB has a limitation that only integer values can be entered for capacity, therefore the value shown for the facility was rounded by the database to 2 m3

Site (Structure) : Püspökszil

Country: HUNGARY

Reporting Year: 2004

Facility:	STORAGE
Description:	Storage for long lived radioactive sources

Storage part of facility STORAGE

The following shows storage status for waste classes and SRS.

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

List SRS?	No
List UMMT?	No

Capacity:	200 m3
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Store	building	0	No	No	No	No

Site (Structure) : Püspökszil

Country: HUNGARY

Reporting Year: 2004

Facility:	VAULTS
Description:	concrete disposal vaults

Storage part of facility VAULTS

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:	5040 m3
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
vaults	pool	1977	No	No	No	No

Site (Structure) : Püspökszil

Country: HUNGARY

Reporting Year: 2004

Disposal part of facility VAULTS

The following shows disposal 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

Type:	engineered surface		
Facility is modular?	No		
Capacity existing (m3):	5040	Capacity planned (m3):	5040

Depth (m):	6	Host medium:	sedimentary (other)
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Phase Name	Start Year	End Year	Estimate
site selection	1974	1974	False
design	1974	1974	False
construction	1974	1976	False
commissioning	1976	1977	False
operation	1977		False

Processing part of facility VAULTS

The following shows processing status for waste classes and SRS.

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

Type:	Treatment, Conditioning
Year opened:	1977

Site (Data) : Püspökszil

Stock of waste as at December 2004

Country: HUNGARY

Reporting Year: 2004

Site Name: Püspökszil

Full Name: Püspökszilágy LILW Repository

Inventory Reporting Date: December 2004

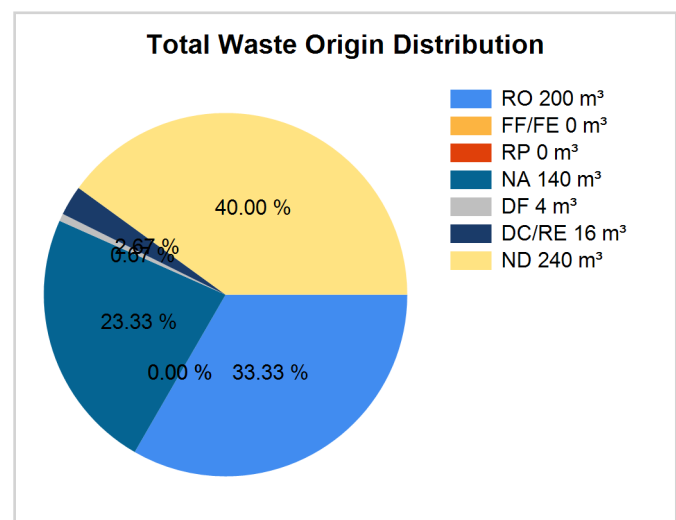
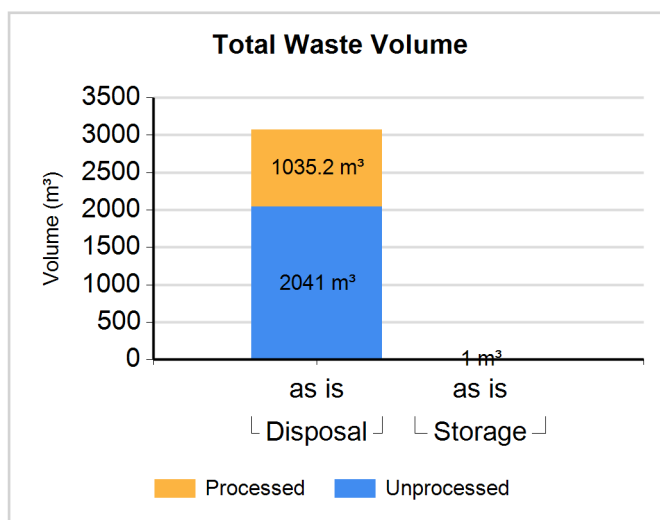
Waste Matrix Used: IAEA Def.

Comment # 339: Percentage of Capacity Used

The percentage of disposal facility capacity used takes in to consideration the volume of waste plus losses due to voids, buffer and backfill materials

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	Disposal	N	N	824.000	824.000	20.00	0.00	0.00	20.00	2.00	8.00	50.00
LILW-SL	Disposal	Y	N	222.000	222.000	80.00	0.00	0.00	0.00	0.00	0.00	20.00

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	1.000	1.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00
LILW-LL	Disposal	N	N	1217.000	1217.000	20.00	0.00	0.00	20.00	2.00	8.00	50.00
LILW-LL	Disposal	Y	N	813.000	813.000	80.00	0.00	0.00	0.00	0.00	0.00	20.00

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	Disposal	Y	N	0.200	0.200	0.00	0.00	0.00	0.00	0.00	0.00	100.00

Site (Data) : Püspökszil

Stock of waste as at December 2004

Country: HUNGARY

Reporting Year: 2004

Processing - Treatment method(s)

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

Processing - Conditioning method(s)

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

Site (Data) : Püspökszil

Stock of waste as at December 2004

Country: HUNGARY

Reporting Year: 2004

Spent Sources <=30 years in Disposition

Nuclide	Number of Sources/Total Activity of Sources (GBq)			c o n d	u n c o n d	c a t	Total Activity for all Groups (GBq)	Decay Date
	Group I less than or equal 4GBq	Group II more than 4GBq but less than or equal 4E+4GBq	Group III more than 4E+4GBq					
	num/activity	num/activity	num/activity					
Co-60	6245	682		Y	Y	N	6.631E+005	
	5.380E+001	6.630E+005						
Cs-137	2479			N	Y	N	9.180E+003	
	9.180E+003							
H-3		1871		Y	Y	N	2.290E+005	
		2.290E+005						
Ir-192	4142			Y	N	N	2.320E+003	
	2.320E+003							
Kr-85	6855			Y	Y	N	2.410E+002	
	2.410E+002							
Pm-147	708			N	Y	N	8.960E+001	
	8.960E+001							
Po-210	531			N	Y	N	4.570E+001	
	4.570E+001							
Sr-90		1274		Y	N	N	3.540E+004	
		3.540E+004						
Tm-170	117			N	Y	N	7.870E-004	
	7.870E-004							

Site (Data) : Püspökszil

Stock of waste as at December 2004

Country: HUNGARY

Reporting Year: 2004

Spent Sources > 30 years in Disposition

Nuclide	Number of Sources/Total Activity of Sources (GBq)		c o n d	u n c o n d	c a t	Total Activity for all Groups (GBq)	Decay Date
	Group I less than or equal 2 GBq	Group II more than 2GBq					
	num/activity	num/activity					
Am-241	5506		N	Y	N	6.780E+003	
	6.780E+003						
Am-241		86	N	Y	N	6.240E+002	
		6.240E+002					
C-14		152	Y	N	N	5.350E+003	
		5.350E+003					
Pu-238		5	N	Y	N	7.660E+002	
		7.660E+002					
Pu-238	71		N	Y	N	1.070E+002	
	1.070E+002						
Pu-239	400	36	N	Y	N	2.793E+003	
	1.340E+001	2.780E+003					
Ra-226	1598		Y	N	N	1.620E+002	
	1.620E+002						
Ra-226		40	N	Y	N	1.540E+002	
		1.540E+002					
Tc-99	3091		N	Y	N	9.610E+000	
	9.610E+000						

Site (Structure) : Üveghuta

Country: HUNGARY

Reporting Year: 2004

Full Name: Bábaapáti LILW repository

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	DISPOSAL		
Description:	solid or solidified waste disposal		
Disposal part of facility			
The following shows disposal status for waste classes and SRS.			
Waste Class	Actual	Planned	
LILW-SL	No	No	
LILW-LL	No	No	
HLW	No	No	
List SRS?	#Error		
List UMMT?	#Error		
Type:			
Facility is modular?	#Error		
Depth (m):		Host medium:	
Phase Name	Start Year	End Year	Estimate

Regulators

Country: HUNGARY

Reporting Year: 2004

Name:	NAPHAMOS
Full Name:	National Public Health and Medical Officer Service
Divison:	
City or Town:	Budapest
Main Website:	

Comment **# 6582: Wastes that are regulated by the Regulator**

Matrix IAEA Def. - HLW, LILW-LL, LILW-SL; Matrix PNPP - HLW, LLW, MLW; Matrix PURAM - HLW, LLW, MLW

Name:	HAEA
Full Name:	Hungarian Atomic Energy Authority
Divison:	
City or Town:	Budapest
Main Website:	

Comment **# 6583: Wastes that are regulated by the Regulator**

Matrix IAEA Def. - HLW, LILW-LL, LILW-SL; Matrix PNPP - HLW, LLW, MLW

Regulations / Laws

Country: HUNGARY

Reporting Year: 2004

Name:	Atomic Law	
Title or Name:	Act No. CXVI. of 1996 on Atomic Energy	
Reference Number:	116/1996 tv.	
Date Promulgated or Proclaimed:	12/18/1996	Law

Name:	PURAM	
Title or Name:	Governmental Decree No. 240/1997. (XII. 18.) Korm., on the establishment of the organisation designated for implementing disposing of radioactive waste disposal and spent fuel, as well as decommissioning of nuclear installations, and on the financial source of performing its tasksactivities.	
Reference Number:	240/1997 korm.	
Date Promulgated or Proclaimed:	12/18/1997	Regulation

Name:	Exemption	
Title or Name:	Governmental Decree No. 124/1997. (VII. 18.) Korm., on radioactive materials as well as equipment generating ionising radiation, exempted from the scope of the Atomic Energy Act No. CXVI of 1996.	
Reference Number:	124/1997 korm.	
Date Promulgated or Proclaimed:	7/18/1997	Regulation

Name:	ActLevels	
Title or Name:	Order of the Minister of Public Welfare No. 23/1997. (VII. 18.) NM defining the exemption levels (activity concentrations and activities cf. ICRP-60) of radionuclides.	
Reference Number:	23/1997 NM	
Date Promulgated or Proclaimed:	7/18/1997	Regulation

Name:	RadProt	
Title or Name:	Order of the Minister of Health No. 16/2000. (VI. 8.) EüM on the execution of certain provisions of the Act No. CXVI. of 1996 on Atomic Energy associated with radiation protection.	
Reference Number:	16/2000 EüM	
Date Promulgated or Proclaimed:	6/8/2000	Regulation

Regulations / Laws

Country: HUNGARY

Reporting Year: 2004

Name:	SiteSelect		
Title or Name:	Order of the Minister of Industry, Trade and Tourism No. 62/1997(XI.26.) IKIM on the Geological and Mining Requirements for the Siting and Planning of Nuclear Facilities and Radioactive Waste Disposal Facilities.		
Reference Number:	62/1997 IKIM		
Date Promulgated or Proclaimed:	11/26/1997	Regulation	

Name:	NuclFund		
Title or Name:	Order of the Minister of Interior No. 41/2004 (VII.7.) BM on the operation and administration of the Central Nuclear Financial Fund.		
Reference Number:	41/2004 BM		
Date Promulgated or Proclaimed:	7/7/2004	Regulation	

Name:	HAEA		
Title or Name:	Government Decree 114/2003 (VII.29.) on the Scope of Duty, Authority and Jurisdiction of Imposing Penalty of the Hungarian Atomic Energy Authority, and on the Activities of the Atomic Energy Council		
Reference Number:	114/2003 Korm.		
Date Promulgated or Proclaimed:	7/29/2003	Regulation	

Name:	St&Disp		
Title or Name:	Decree of the Minister of Health, Social and Family Affairs 47/2003 (VIII.8.) on some aspects of the interim storage and final disposal of radioactive waste and on the radiological aspects of radioactive materials arising from industrial activities and naturally occurring radioactive materials		
Reference Number:	47/2003 ESzCsM		
Date Promulgated or Proclaimed:	8/8/2003	Regulation	

Milestones

Country: HUNGARY

Reporting Year: 2004

Start Year or Reference Year:	2004	End Year:	2006
Description of Milestone:			
LILW: The programme of further investigations of B́ataaṕati (Uveghuta) site (construction of two parallel inclined shafts in order to determine the exact location of the repository and its safety zone) was approved by the competent minister in December 2004.			
Start Year or Reference Year:	2003	End Year:	2008
Description of Milestone:			
HLW: start of investigations to select a site of an underground laboratory in the Mecsek Mountains for the exploration of the Boda Claystone Formation.			
Start Year or Reference Year:	2002	End Year:	2005
Description of Milestone:			
LILW: Safety upgrading program (Phase I) for the Radioactive Waste Treatment and Disposal Facility in Ṕuspókszilágy (based on previous safety assessments).			
Start Year or Reference Year:	2001	End Year:	2003
Description of Milestone:			
LILW: Detailed geological and hydrogeological survey from the surface as well as safety assessment of B́ataaṕati (Uveghuta) site. The geological authority stated that the site fulfils all the requirements formulated in the relevant decree: thus, from the geological point of view it is suitable for the disposal of LILW.			
Start Year or Reference Year:	2000	End Year:	
Description of Milestone:			
LILW: Collection of existing data and preparation of a preliminary safety assessment to establish further investigation in B́ataaṕati (Uveghuta).			
Start Year or Reference Year:	2000	End Year:	2001
Description of Milestone:			
HLW: Elaboration of a national policy for HLW management, aiming at the establishment of a national strategy.			
Start Year or Reference Year:	1999	End Year:	
Description of Milestone:			
LILW: IAEA WATRP Mission confirms the results of the investigation and recommends further exploration of B́ataaṕati (Uveghuta).			

Milestones

Country: HUNGARY

Reporting Year: 2004

Start Year or Reference Year:	1998	End Year:	1999
Description of Milestone:			
HLW: Country-wide screening for a potential site.			
Start Year or Reference Year:	1997	End Year:	1998
Description of Milestone:			
LILW: Exploration of the suitability of the potential site Bábaapáti (Üveghuta).			
Start Year or Reference Year:	1996	End Year:	
Description of Milestone:			
LILW: Decision to investigate the Bábaapáti (Üveghuta) site for a subsurface repository in granite, while keeping the Udvari site for a surface repository stand-by.			
Start Year or Reference Year:	1993	End Year:	1996
Description of Milestone:			
LILW: A National Program was launched to select a site for a repository for NPP waste (countrywide screening and regional screening for potential sites).			
Start Year or Reference Year:	1993	End Year:	1999
Description of Milestone:			
HLW: Geological exploration 1100 m below surface in an underground research object in the Boda claystone formation.			
Start Year or Reference Year:	1989	End Year:	1993
Description of Milestone:			
HLW: Preliminary geological investigation of the Boda claystone formation.			
Start Year or Reference Year:	1986	End Year:	1986
Description of Milestone:			
LILW: A disposal site for NPP waste was investigated in Ófalu, but the licence for construction was not granted by the Hungarian authorities.			

Milestones

Country: HUNGARY

Reporting Year: 2004

Start Year or Reference Year:	1976	End Year:	1976
Description of Milestone:			
LILW: Licencing of the Radioactive Waste Treatment and Disposal Facility in Püspökszilágy for institutional waste.			

Start Year or Reference Year:	1960	End Year:	1960
Description of Milestone:			
LILW: Start of operation of an interim storage in Solymár.			

Policies

Country: HUNGARY

Reporting Year: 2004

National Systems

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

Policies

Country: HUNGARY

Reporting Year: 2004

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

Policies

Country: HUNGARY

Reporting Year: 2004

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)	No
Q56	Quality Assurance (QA)	No
Q57	Safety Assessment (SA)	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?	No
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)	No
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: HUNGARY

Reporting Year: 2004

Processing/Storage

Policies/Procedures		(Yes;No)
Q73	waste sorting/segregation	Yes
Q74	waste minimization	Yes
Q75	waste storage	Yes
Q76	processing and/or storing and/or disposing of nuclear fuel cycle waste separately from non-nuclear fuel cycle waste (also known as nuclear applications waste)	No
Q78	Does your country have any legislation, regulation, or policy that waste processing must take place prior to storage (see following note)	Yes
Implementation		(Yes;No)
Q80	Does your Country have any waste processing facilities at the same location where the waste is generated?	Yes
Q81	Does your Country have any centralized waste processing facilities?	No
Q82	Does your Country have 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: HUNGARY

Reporting Year: 2004

Spent/Disused SRS

Registration		(Yes;No)
Q84	Is there a national level registry?	Yes
Q85	If answer was yes, is the registry used only for disused/spent SRS?	No
Q87	Are there regional-level registries (one or more)?	No
Q90	Are there local-level registries (one or more)?	Yes
Q115	If the answer was yes, are any registries used only for disused/spent SRS?	No
Procedures		(Yes;No)
Q91	Does your Country have documented procedures in place to ensure that sealed radioactive sources (SRS) are transferred to secure facilities in a timely manner after their user declares them to be spent?	Yes
Agreements		(Yes;No)
Q93	Government to Government agreements	No
Q94	Government - Supplier agreements	No
Q95	Supplier-User agreements	Yes
Q97	Do any agreements include suppliers that are outside of your Country?	Yes
Release / Disposal		(Yes;No)
Q99	Does your Country have any regulations to free-release spent sealed radioactive sources (SRS)?	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?	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)?	No
Spent Fuel		(Yes;No)
Q105	Does your Country have laws or Regulations restricting either the import or export of spent fuel?	No

Policies

Country: HUNGARY

Reporting Year: 2004

Liquid HLW

Storage

(Yes;No)

Q106 Does your Country have high-level liquid wastes in storage? Yes

Processing

(Yes - All;Yes - Some;No)

Q107 If your Country has high-level liquid wastes in storage, are there documented plans in place to process these liquids? No

Timeframe

(Yes - All;Yes - Some;No)

Q108 If your Country has high-level liquid wastes in storage, are there plans to have this waste be processed within a specified time frame? 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

Decommissioning

Funding

(Yes - All;Yes - Some;No)

Q111 Does your Country require that funds should be set aside in support of future waste management activities, such as decommissioning activities? Yes - All

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 - Some

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

Future Outlook

Country: HUNGARY

Reporting Year: 2004

Data not available.

Future Outlook

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Reporting Year: 2004

Data not available.

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Data not available.

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