



Country Waste Profile Report for UKRAINE Reporting Year: 2011

*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: UKRAINE

Reporting Year: 2011

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

Waste Class Matrix: **Ukraine**

Yes

Description: Low-Active Radioactive Waste:
 For alpha emitters: 1E-1 - 1E+2 kBq/kg;
 Transuranic: 0,1 kBq/kg;
 Other alpha emitters: 1 kBq/kg;
 For beta, gamma emitters: 1E+1 - 1E+4 kBq/kg.

Mid-Active Radioactive Waste:
 For alpha emitters: 1E+5 - 1E+8 kBq/kg;
 Transuranic: 0,1 kBq/kg;
 Other alpha emitters: 1 kBq/kg;
 For beta, gamma emitters: 1E+3 - 1E+6 kBq/kg.

High-Active Radioactive Waste:
 Thermal power above about 2 kW/m³.

Waste Class Name	Distribution %		
	LILW-SL	LILW-LL	HLW
Mid-Active	99.0	1.0	0.0
Low-Active	99.0	1.0	0.0
High-Active	0.0	0.0	100.0

Comment # 148: % in the matrix

% in the matrix were based on preliminary data of State RW inventory, which was held in 1999.

Comment # 149: Classification scheme

This classification scheme is required by a regulation "Main Sanitary Rules of Radiation Protection", SSR 6.074.120-01, Kiev, 2001

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	x		
Processed means:			x	x

Groups Overview

Country: UKRAINE

Reporting Year: 2011

Reporting Group:	ChNPP
Inventory Reporting Date:	December 2011
Waste Matrix Used:	Ukraine
Description:	Reporting group ChNPP - Chornobyl NPP

Site Name	Facility Name	Facilities Defined		
Chorn NPP	SLRW		storage	
	SSRW		storage	

Reporting Group:	NNEC
Inventory Reporting Date:	December 2011
Waste Matrix Used:	Ukraine
Description:	Reporting group NNEC - National Nuclear Energy Generating Company, which include Khmelnitsky NPP, Rivne NPP, South-Ukraine NPP and Zaporizhzhya NPP

Site Name	Facility Name	Facilities Defined		
Khmel NPP	FROI	processing		
	SLRW		storage	
	SSRW		storage	
Rivne NPP	BF	processing		
	SLRW		storage	
	SSHRW1,2		storage	
	SSRW		storage	
SU NPP	SLRW		storage	
	SSRW		storage	
Zap NPP	IF	processing		
	PF	processing		
	SLRW		storage	
	SSRW		storage	

Reporting Group:	RADON
Inventory Reporting Date:	December 2011
Waste Matrix Used:	Ukraine
Description:	Reporting group RADON - State association "RADON", which include Dnipropetrovsk, Donetsk, Kiev, Kharkov, Lviv, Odessa Special enterprises and Special enterprise "Komplex"

Groups Overview

Country: UKRAINE

Reporting Year: 2011

Site Name	Facility Name	Facilities Defined		
Dnibr SE	Hangar 2		storage	
	Module 2		storage	
	Module 4		storage	
	Module 5 B			disposal
	Module1			disposal
	SRS 1		storage	disposal
Kh SE	FAC 1	processing		
	FAC 2	processing		
	Module 1			disposal
	Module 18			disposal
	Module 19			disposal
	Module 20			disposal
	Module 21		storage	
	PIPE		storage	
	SRS 15-16			disposal
	SRS 17			disposal
Kiev SE	LRW		storage	
	Modul 8-10			disposal
	Module 5-7			disposal
	SRS 1-6			disposal
	Stor 2		storage	
LvivSE	LRW		storage	
	Module 1			disposal
	Module 2		storage	
	Module 3			disposal
	Module 4			disposal
	Module 5		storage	
	Module 6		storage	
	Module 7		storage	
	Module 8		storage	
	Module B			disposal
	SRS 1			disposal
	SRS 2			disposal
SRS 3			disposal	
Odessa SE	LRW		storage	

Groups Overview

Country: UKRAINE

Reporting Year: 2011

	Modul 1			disposal
	Modul 14		storage	
	Place 1		storage	
	SRS 13			disposal
	SRS 2			disposal
	Stor 15		storage	
SSE CRME	ENSDF			disposal
	PTLRW		storage	
	PZRW			disposal
	SRW-1			disposal
	SRW-2			disposal

Site (Structure) : Chorn NPP

Country: UKRAINE

Reporting Year: 2011

Full Name: Chornobyl nuclear power plant
 Location: Slavutych, Ukraine, 07100
 Description:
 Official Website:
 License Holder(s): Chornobyl nuclear power plant
 General Director: Gramotkin Igor
 Tel: +38 04479 2 56 70
 Fax: +38 04479 2 63 59

Waste management facilities that are located at this site:

Facility:	SLRW					
Description:	Tanks for liquid radioactive waste storage					
Storage part of facility SLRW						
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
Mid-Active	Yes	Yes				
Low-Active	Yes	Yes				
High-Active	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:	SLRW1 total volume is 26000m3 SLRW2 total volume is 12000m3					
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
SLRW1	tank (stainless steel)	1977	No	No	Yes	No
SLRW2	tank (stainless steel)	1982	No	No	Yes	No

Site (Structure) : Chorn NPP

Country: UKRAINE

Reporting Year: 2011

Facility:	SSRW
Description:	Building for solid radioactive waste storage

Storage part of facility SSRW

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	Yes
Low-Active	Yes	Yes
High-Active	Yes	Yes

List SRS?	No
List UMMT?	No

Capacity:	4000 m3
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
SSRW 1	building	1978	No	No	Yes	No
SSRW 2	building	1978	No	No	Yes	No

Site (Data) : Chorn NPP

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Site Name: Chorn NPP

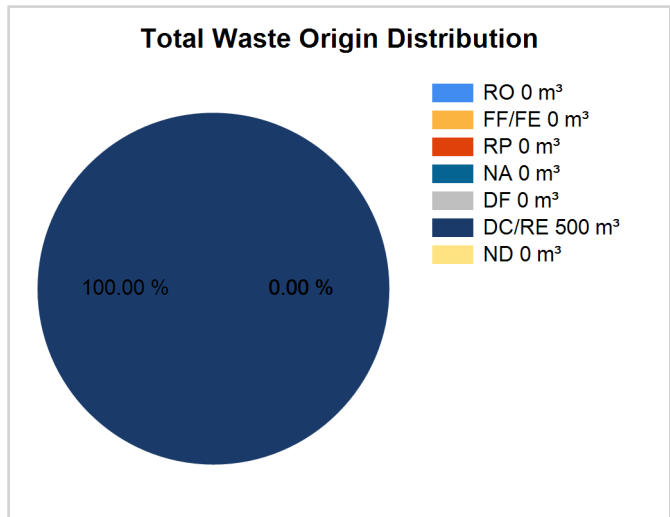
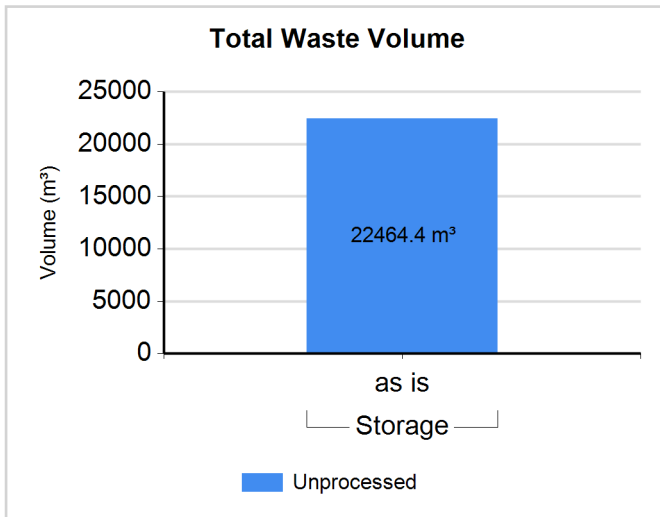
Full Name: Chornobyl nuclear power plant

Inventory Reporting Date: December 2011

Waste Matrix Used: Ukraine

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.

Site (Data) : Chorn NPP

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Waste Class: Mid-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Mid-Active	Storage / SLRW	N	N	19813.530	19813.530	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Storage / SSRW	N	N	926.500	926.500	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Comment # 6835: The additional characteristics of the waste

Unprocessed: flammable, hazardous (chemical), liquid (aqueous), liquid (organic), resin, sludge, solid (dispersible), solid (non-dispersible)

Waste Class: Low-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Low-Active	Storage / SLRW	N	N	144.520	144.520	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Low-Active	Storage / SSRW	N	N	1069.000	1069.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Comment # 6836: The additional characteristics of the waste

Unprocessed: flammable, hazardous (chemical), liquid (aqueous), liquid (organic), resin, sludge, solid (dispersible), solid (non-dispersible)

Waste Class: High-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
High-Active	Storage / SSRW	N	N	510.850	510.850	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Comment # 6837: The additional characteristics of the waste

Unprocessed: flammable, hazardous (chemical), liquid (aqueous), liquid (organic), resin, sludge, solid (dispersible), solid (non-dispersible)

Site (Structure) : Khmel NPP

Country: UKRAINE

Reporting Year: 2011

Full Name: Khmelnitsky nuclear power plant

Location: Neteshyn, Ukraine, 30100

Description:

Official Website:

License Holder(s): National nuclear energy generating company

President: Nedashkovskiy Yury

Tel: +38 044 294 48 70

Fax: +38 044 294 48 83

Director: Panaschenko Mykola

Tel: +38 03848 3 33 50

Fax: +38 03848 3 33 60

Waste management facilities that are located at this site:

Facility:	FROI	
Description:	Facility for radioactive oil incineration	
Processing part of facility		
	FROI	
The following shows processing status for waste classes and SRS.		
Waste Class	Actual	Planned
Mid-Active	No	No
Low-Active	No	No
High-Active	No	No
Type:	Treatment	
Year opened:	2001	

Site (Structure) : Khmel NPP

Country: UKRAINE

Reporting Year: 2011

Facility:	SLRW
Description:	Tanks for liquid radioactive waste storage

Storage part of facility SLRW

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	Yes
Low-Active	Yes	Yes
High-Active	No	No

List SRS?	No
List UMMT?	No

Capacity:	
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
SLRW	tank (stainless steel)	1987	No	No	Yes	No

Site (Structure) : Khmel NPP

Country: UKRAINE

Reporting Year: 2011

Facility:	SSRW
Description:	Moduls for solid radioactive waste storage

Storage part of facility SSRW

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	Yes
Low-Active	Yes	Yes
High-Active	Yes	Yes

List SRS?	No
List UMMT?	No

Capacity:	
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
SSRW-1	building	1987	No	No	Yes	No
SSRW-2	building	2002	No	No	Yes	No

Site (Data) : Khmel NPP

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Site Name: Khmel NPP

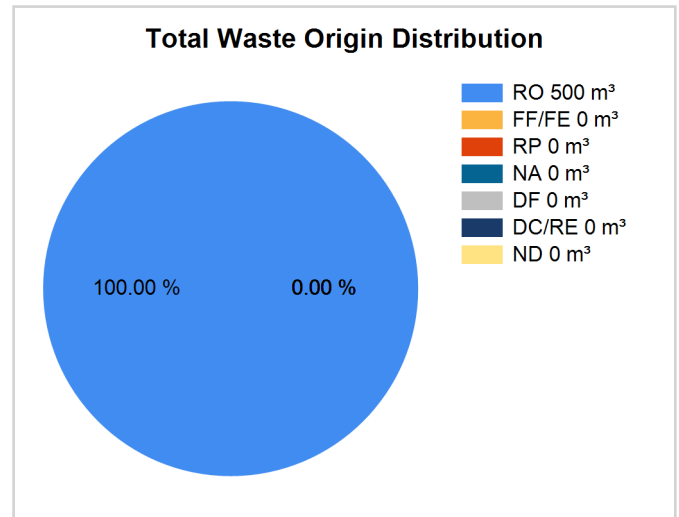
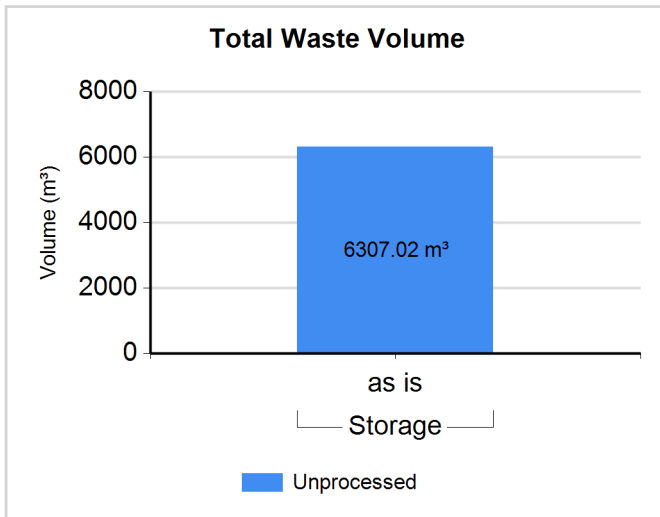
Full Name: Khmelnitsky nuclear power plant

Inventory Reporting Date: December 2011

Waste Matrix Used: Ukraine

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.

Site (Data) : Khmel NPP

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Waste Class: Mid-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Mid-Active	Storage / SLRW	N	N	1579.800	1579.800	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Mid-Active	Storage / SSRW	N	N	118.700	118.700	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Comment # 6826: The additional characteristics of the waste

Unprocessed: explosive, flammable, hazardous (chemical), liquid (aqueous), liquid (organic), resin, sludge, solid (dispersible), solid (non-dispersible)

Processed: liquid (organic)

Waste Class: Low-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Low-Active	Storage / SLRW	N	N	1.100	1.100	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Low-Active	Storage / SSRW	N	N	4597.900	4597.900	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Comment # 6827: The additional characteristics of the waste

Unprocessed: explosive, flammable, hazardous (chemical), liquid (aqueous), liquid (organic), resin, sludge, solid (dispersible), solid (non-dispersible)

Comment # 25547: 2011 (SLRW)

1,3 m3 of RW oil was burnt in 2011 year

Waste Class: High-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
High-Active	Storage / SSRW	N	N	9.520	9.520	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Comment # 6828: The additional characteristics of the waste

Unprocessed: explosive, flammable, hazardous (chemical), liquid (aqueous), liquid (organic), resin, sludge, solid (dispersible), solid (non-dispersible)

Processing - Treatment method(s)

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

Site (Structure) : Rivne NPP

Country: UKRAINE

Reporting Year: 2011

Full Name: Rivne nuclear power plant

Location: Kuznetsovsk, Ukraine, 34400

Description:

Official Website:

License Holder(s): National nuclear energy generating company
 President: Nedashkovskiy Yury
 Tel: +38 044 294 48 70
 Fax: +38 044 294 48 83
 Director: Fridman Mykola
 Tel: +38 03636 2 23 14
 Fax: +38 03636 2 23 60

Waste management facilities that are located at this site:

Facility:	BF	
Description:	Facility for radioactive waste bituminization	
Processing part of facility BF		
The following shows processing status for waste classes and SRS.		
Waste Class	Actual	Planned
Mid-Active	No	No
Low-Active	No	No
High-Active	No	No
Type:	Conditioning	
Year opened:	2001	

Site (Structure) : Rivne NPP

Country: UKRAINE

Reporting Year: 2011

Facility:	SLRW
Description:	Tanks for liquid radioactive waste storage

Storage part of facility SLRW

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	Yes
Low-Active	Yes	Yes
High-Active	No	No

List SRS?	No
List UMMT?	No

Capacity:	
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
SLRW1	tank (stainless steel)	1980	No	No	Yes	No
SLRW2	tank (stainless steel)	1986	No	No	Yes	No

Site (Structure) : Rivne NPP

Country: UKRAINE

Reporting Year: 2011

Facility:	SSHRW1,2
Description:	Modul for solid high-radioactive waste storage

Storage part of facility SSHRW1,2

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	No	No
Low-Active	No	No
High-Active	Yes	Yes

List SRS?	No
List UMMT?	No

Capacity:	
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
SSHRW1,2	building	1980	No	No	Yes	No

Site (Structure) : Rivne NPP

Country: UKRAINE

Reporting Year: 2011

Facility:	SSRW
Description:	Moduls for solid radioactive waste storage

Storage part of facility SSRW

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	Yes
Low-Active	Yes	Yes
High-Active	No	No

List SRS?	No
List UMMT?	No

Capacity:	
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
SSRW1,2	building	1980	No	No	Yes	No
SSRW3	building	1986	No	No	Yes	No
SSRW4	building	2001	No	No	Yes	No

Site (Data) : Rivne NPP

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Site Name: Rivne NPP

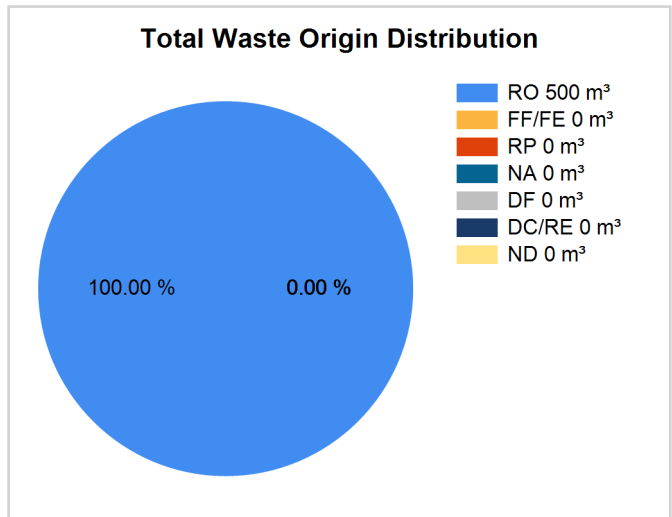
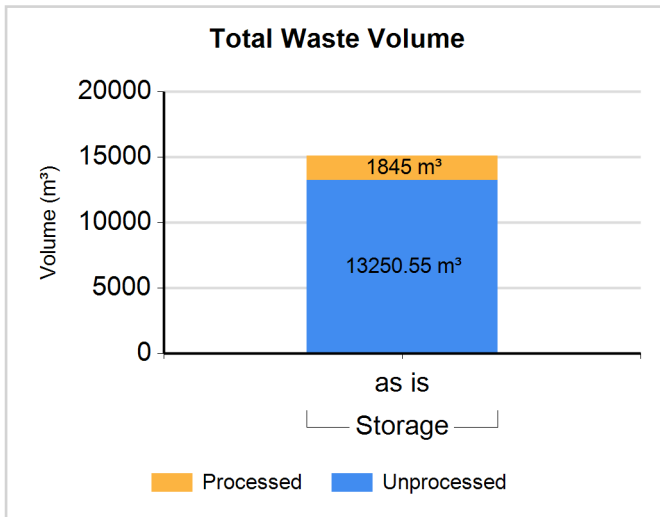
Full Name: Rivne nuclear power plant

Inventory Reporting Date: December 2011

Waste Matrix Used: Ukraine

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.

Site (Data) : Rivne NPP

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Waste Class: Mid-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Mid-Active	Storage / SLRW	N	N	4408.350	4408.350	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Mid-Active	Storage / SLRW	Y	N	1845.000	1845.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Mid-Active	Storage / SSRW	N	N	2279.670	2279.670	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Comment # 6829: The additional characteristics of the waste

Unprocessed: explosive, flammable, hazardous (chemical), liquid (aqueous), liquid (organic), resin, sludge, solid (dispersible), solid (non-dispersible), toxic
 Processed: liquid (aqueous), liquid (organic)

Waste Class: Low-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Low-Active	Storage / SSRW	N	N	6477.370	6477.370	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Comment # 6830: The additional characteristics of the waste

Unprocessed: explosive, flammable, hazardous (chemical), liquid (aqueous), liquid (organic), resin, sludge, solid (dispersible), solid (non-dispersible), toxic

Waste Class: High-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
High-Active	Storage / SSRW1,2	N	N	85.160	85.160	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Comment # 6831: The additional characteristics of the waste

Unprocessed: explosive, flammable, hazardous (chemical), liquid (aqueous), liquid (organic), resin, sludge, solid (dispersible), solid (non-dispersible), toxic

Processing - Conditioning method(s)

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

Site (Structure) : SU NPP

Country: UKRAINE

Reporting Year: 2011

Full Name: South-Ukraine nuclear power plant

Location: Uzhnoukrainsk, Ukraine,

Description:

Official Website:

License Holder(s): National nuclear energy generating company

President: Nedashkovskiy Yury

Tel: +38 044 294 48 70

Fax: +38 044 294 48 83

Director: Bilyk Boris

Tel: +38 044 227 26 61

Fax: +38 05136 2 18 32

Waste management facilities that are located at this site:

Facility:	SLRW
Description:	Tanks for liquid radioactive waste

Storage part of facility**SLRW**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	Yes
Low-Active	Yes	Yes
High-Active	Yes	Yes

List SRS?	No
List UMMT?	No

Capacity:	
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
SLRW1	tank (stainless steel)	1982	No	No	Yes	No
SLRW2	tank (stainless steel)	1986	No	No	Yes	No
SLRW3	tank (stainless steel)	1989	No	No	Yes	No

Site (Structure) : SU NPP

Country: UKRAINE

Reporting Year: 2011

Facility:	SSRW
Description:	Building for solid radioactive waste storage

Storage part of facility SSRW

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	Yes
Low-Active	Yes	Yes
High-Active	Yes	Yes

List SRS?	No
List UMMT?	No

Capacity:	
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
SSRW1	building	1982	No	No	Yes	No
SSRW2	building	1997	No	No	Yes	No
SLLRW	building	1982	No	No	Yes	No
SSRW3	building	2002	No	No	Yes	No

Site (Data) : SU NPP

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Site Name: SU NPP

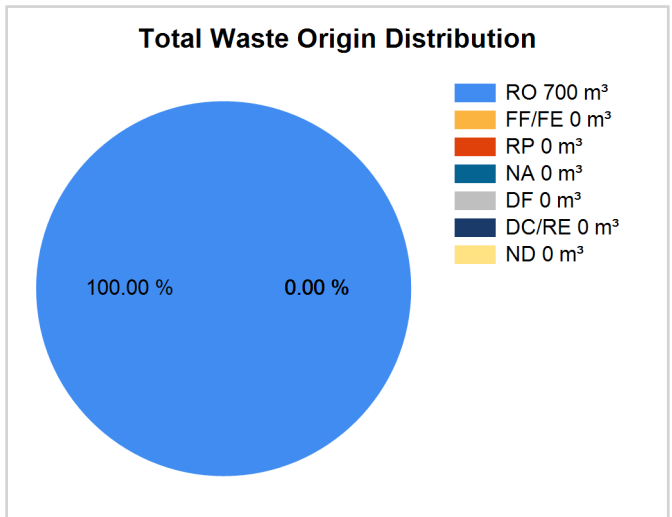
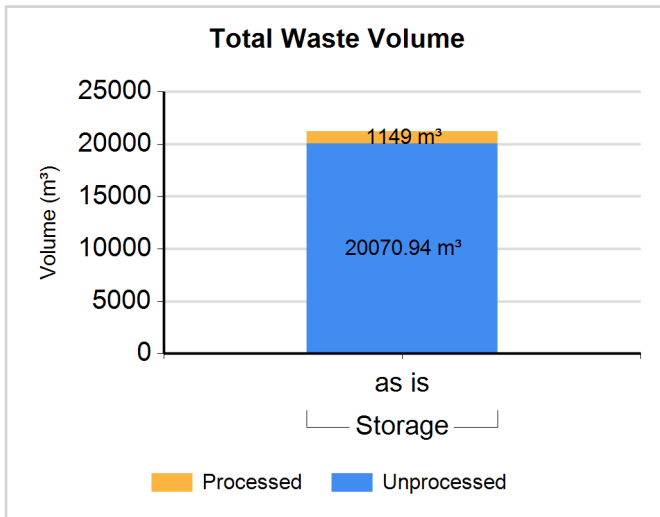
Full Name: South-Ukraine nuclear power plant

Inventory Reporting Date: December 2011

Waste Matrix Used: Ukraine

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.

Site (Data) : SU NPP

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Waste Class: Mid-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Mid-Active	Storage / SLRW	N	N	2996.100	2996.100	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Mid-Active	Storage / SSRW	N	N	582.850	582.850	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Comment **# 6832: The additional characteristics of the waste**

Unprocessed: explosive, flammable, hazardous (chemical), liquid (aqueous), liquid (organic), resin, sludge, solid (dispersible), solid (non-dispersible)

Comment **# 25562: The volume of mid-active-level waste**

The volume of mid-active-level waste had been decreased after pumped over its to a system of treatment of floor drains

Waste Class: Low-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Low-Active	Storage / SLRW	N	N	125.700	125.700	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Low-Active	Storage / SSRW	N	N	16299.500	16299.500	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Low-Active	Storage / SSRW	Y	N	1149.000	1149.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Comment **# 6833: The additional characteristics of the waste**

Unprocessed: explosive, flammable, hazardous (chemical), liquid (aqueous), liquid (organic), resin, sludge, solid (dispersible), solid (non-dispersible)

Waste Class: High-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
High-Active	Storage / SLRW	N	N	52.400	52.400	100.00	0.00	0.00	0.00	0.00	0.00	0.00
High-Active	Storage / SSRW	N	N	14.390	14.390	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Comment **# 6834: The additional characteristics of the waste**

Unprocessed: explosive, flammable, hazardous (chemical), liquid (aqueous), liquid (organic), resin, sludge, solid (dispersible), solid (non-dispersible)

Comment **# 25563: The volume of high-level waste**

The volume of high-level waste had been decreased after pumped over a decantate to a treatment

Site (Structure) : Zap NPP

Country: UKRAINE

Reporting Year: 2011

Full Name: Zaporizhzhya Nuclear Power Plant

Location: Energodar, Ukraine, 71500

Description:

Official Website:

License Holder(s): National nuclear energy generating company

President: Nedashkovskiy Yury

Tel: +38 044 294 48 70

Fax: +38 044 294 48 83

Director: Tischenko Vyacheslav

Tel.: +38 06139 3 38 78

Fax: +38 06139 3 19 12

Waste management facilities that are located at this site:

Facility:	IF		
Description:	Incineration facility		
Processing part of facility	IF		
The following shows processing status for waste classes and SRS.			
Waste Class	Actual	Planned	
Mid-Active	No	No	
Low-Active	No	No	
High-Active	No	No	
Type:	Treatment		
Year opened:	1990		

Site (Structure) : Zap NPP

Country: UKRAINE

Reporting Year: 2011

Facility:	PF												
Description:	Pressing facility												
Processing part of facility PF													
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>Mid-Active</td><td>No</td><td>No</td></tr><tr><td>Low-Active</td><td>No</td><td>No</td></tr><tr><td>High-Active</td><td>No</td><td>No</td></tr></tbody></table>	Waste Class	Actual	Planned	Mid-Active	No	No	Low-Active	No	No	High-Active	No	No	
Waste Class	Actual	Planned											
Mid-Active	No	No											
Low-Active	No	No											
High-Active	No	No											
Type:	Treatment												
Year opened:	1991												

Site (Structure) : Zap NPP

Country: UKRAINE

Reporting Year: 2011

Facility:	SLRW
Description:	Tanks for liquid radioactive waste

Storage part of facility SLRW

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	Yes
Low-Active	Yes	Yes
High-Active	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?
SLRW1	tank (stainless steel)	1984	No	No	Yes	No
SLRW2	tank (stainless steel)	1989	No	No	Yes	No

Site (Structure) : Zap NPP

Country: UKRAINE

Reporting Year: 2011

Facility:	SSRW
Description:	Building for solid radioactive waste storage

Storage part of facility SSRW

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	Yes
Low-Active	Yes	Yes
High-Active	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?
SSRW1	building	1984	No	No	Yes	No
SSRW2	building	1989	No	No	Yes	No
SSRW3	building	1986	No	No	No	No

Site (Data) : Zap NPP

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Site Name: Zap NPP

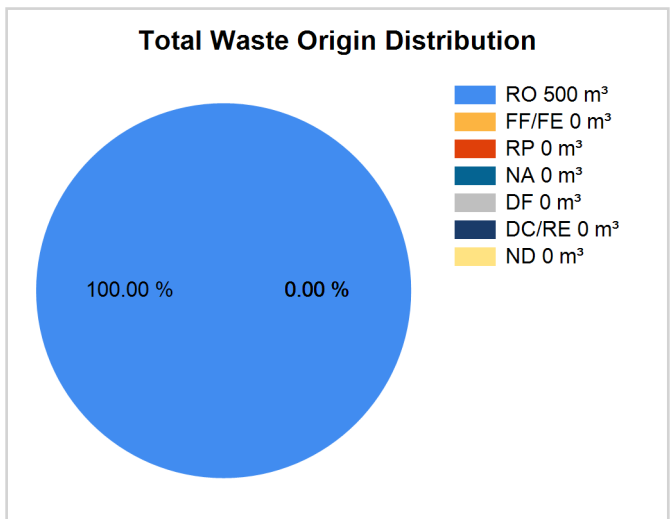
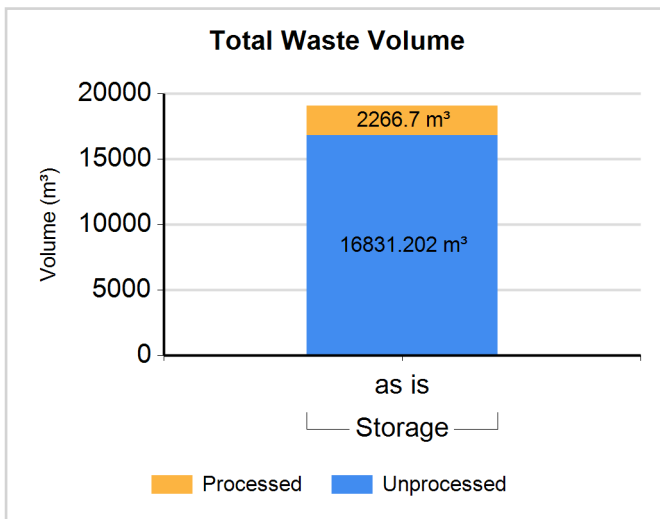
Full Name: Zaporizhzhya Nuclear Power Plant

Inventory Reporting Date: December 2011

Waste Matrix Used: Ukraine

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.

Site (Data) : Zap NPP

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Waste Class: Mid-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Mid-Active	Storage / SLRW	N	N	9599.400	9599.400	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Mid-Active	Storage / SSRW	N	N	781.810	781.810	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Comment # 6823: The additional characteristics of the waste

Unprocessed: explosive, flammable, hazardous (chemical), liquid (aqueous), liquid (organic), resin, sludge, solid (dispersible), solid (non-dispersible)

Processed: flammable, liquid (aqueous), liquid (organic)

Waste Class: Low-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Low-Active	Storage / SSRW	N	N	6358.800	6358.800	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Low-Active	Storage / SSRW	Y	N	2266.700	2266.700	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Comment # 6824: The additional characteristics of the waste

Unprocessed: explosive, flammable, hazardous (chemical), liquid (aqueous), liquid (organic), resin, sludge, solid (dispersible), solid (non-dispersible)

Processed: flammable, liquid (aqueous), liquid (organic)

Comment # 25548: unprocessed of SSRW

5,7 m3 of unprocessed solid of RW was exepcted and compacted in 2011 year

Waste Class: High-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
High-Active	Storage / SSRW	N	N	91.192	91.192	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Comment # 6825: The additional characteristics of the waste

Unprocessed: explosive, flammable, hazardous (chemical), liquid (aqueous), liquid (organic), resin, sludge, solid (dispersible), solid (non-dispersible)

Processing - Treatment method(s)

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

Site (Structure) : Dnibr SE

Country: UKRAINE

Reporting Year: 2011

Full Name: Dnipropetrovsk State Interregion Special Enterprise

Location: 24Á, Stalingrad herois str., Dnipropetrovsk, Ukraine, 49061

Description:

Official Website:

License Holder(s): Dnipropetrovsk State Interregional Special Enterprise,
 Director: Svidersky Viktor,
 Phone: +38 056 231 31 23 begin_of_the_skype_highlighting +38 056 231 31
 23 end_of_the_skype_highlighting
 Fax: +38 056 2312182

Waste management facilities that are located at this site:

Facility:	Hangar 2
Description:	Hangar-covering over Module 2
Detailed Facility Description:	Hangar-covering over Module 2
Waste Packages:	containers
Facility Operation:	from 2009

Storage part of facility Hangar 2

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	Yes	No
High-Active	No	No

List SRS?	Yes
List UMMT?	No

Capacity:	700m3
-----------	-------

Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Hangar 2	building	2009	No	No	No	No

Site (Structure) : Dnpr SE

Country: UKRAINE

Reporting Year: 2011

Facility:	Module 2
Description:	Concrete modules for solid radioactive waste

Storage part of facility Module 2

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	Yes	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Capacity:	200m3
-----------	-------

Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Module 2	not in list	1987	Yes	Yes	No	Yes

Site (Structure) : Dnipro SE

Country: UKRAINE

Reporting Year: 2011

Facility:	Module 4
Description:	Storage for liquid radioactive waste

Storage part of facility Module 4

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Capacity:	200m3
-----------	-------

Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Modul 4	cask	1961	No	No	No	No

Site (Structure) : Dnpr SE

Country: UKRAINE

Reporting Year: 2011

Facility:	Module 5 B
Description:	Concrete module for solid biological radioactive waste

Disposal part of facility Module 5 B

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	No		
Capacity existing (m3):	50	Capacity planned (m3):	50

Depth (m):	6	Host medium:	sedimentary rock (consolidated clay)
------------	---	--------------	---

Phase Name	Start Year	End Year	Estimate
operation	1983	0	False
EVENT: operating license granted	1995	1998	False
EVENT: operating license granted	1998	2001	False
EVENT: operating license granted	2001	2004	False
EVENT: operating license granted	2005	2008	False
EVENT: operating license granted	2008	2011	False

Site (Structure) : Dnibr SE

Country: UKRAINE

Reporting Year: 2011

Facility:	Module1
Description:	Concrete modules for solid radioactive waste
Facility Operation:	closed

Disposal part of facility Module1

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	No		
Capacity existing (m3):	200	Capacity planned (m3):	200

Depth (m):	6	Host medium:	sedimentary rock (consolidated clay)
------------	---	--------------	---

Phase Name	Start Year	End Year	Estimate
operation	1962	0	False
EVENT: operating license granted	1995	1998	False
EVENT: operating license granted	1998	2001	False
EVENT: operating license granted	2001	2004	False
EVENT: operating license granted	2005	2008	False
EVENT: operating license granted	2008	2011	False
EVENT: operation suspended	1981	0	False

Site (Structure) : Dnibr SE

Country: UKRAINE

Reporting Year: 2011

Facility:	SRS 1
Description:	Module for Spent Radioactive Sources

Storage part of facility SRS 1

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	No	No
Low-Active	No	No
High-Active	No	No

List SRS?	Yes
List UMMT?	No

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

Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Hungar 2	not in list	2009	No	No	No	Yes

Site (Structure) : Dnpr SE

Country: UKRAINE

Reporting Year: 2011

Disposal part of facility SRS 1

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	No	No
Low-Active	No	No
High-Active	No	No

List SRS?	Yes
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	No		
Capacity existing (m3):	1	Capacity planned (m3):	1

Depth (m):	6	Host medium:	sedimentary rock (consolidated clay)
------------	---	--------------	---

Phase Name	Start Year	End Year	Estimate
operation	1962	0	False
EVENT: operating license granted	1995	1998	False
EVENT: operating license granted	1998	2001	False
EVENT: operating license granted	2001	2004	False
EVENT: operating license granted	2005	2008	False
EVENT: operating license granted	2008	2011	False

Site (Data) : Dnibr SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Site Name: Dnibr SE

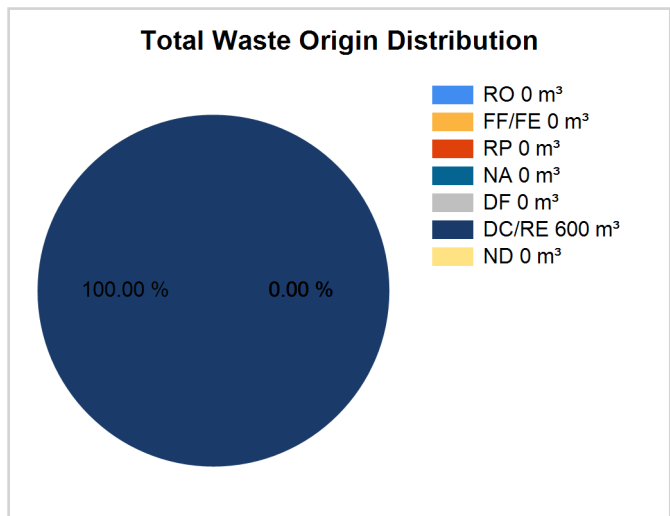
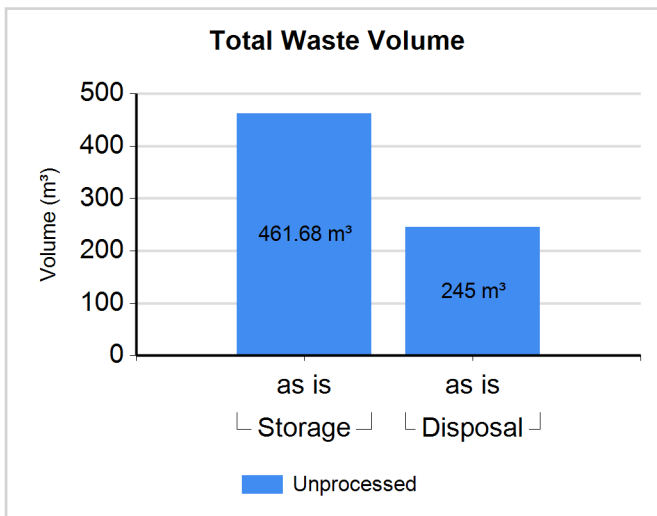
Full Name: Dnipropetrovsk State Interregion Special Enterprise

Inventory Reporting Date: December 2011

Waste Matrix Used: Ukraine

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: Mid-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Mid-Active	Storage / Hangar 2	N	N	17.680	17.680	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Storage / Module 2	N	N	200.000	200.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Storage / Module 4	N	N	124.000	124.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Disposal / Module 5 B	N	N	45.000	45.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Disposal / Module1	N	N	200.000	200.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Comment # 6803: The additional characteristics of the waste

Unprocessed: liquid (aqueous)

Waste Class: Low-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Low-Active	Storage	N	N	120.000	120.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Comment # 6805: The additional characteristics of the waste

Unprocessed: liquid (aqueous)

Spent Sources <=30 years in Storage

Site (Data) : Dnibr SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

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					
Ba-133	1			N	Y	Y	0.000E+000	
	0.000E+000							
Ba-133	1			N	Y	Y	0.000E+000	
	0.000E+000							
Co-60	153	32		N	Y	Y	6.451E+003	
	1.760E+001	6.433E+003						
Co-60		11		N	Y	Y	2.089E+001	
		2.089E+001						
Co-60	9			N	Y	Y	0.000E+000	
	0.000E+000							
Cs-137	8			N	Y	Y	0.000E+000	
	0.000E+000							
Cs-137		131		N	Y	Y	2.806E+003	
		2.806E+003						
Cs-137	358	171		N	Y	Y	1.613E+005	
	2.086E+002	1.611E+005						
Ir-192	1	9		N	Y	Y	6.822E+002	
	2.200E+000	6.800E+002						
Ir-192		13		N	Y	Y	8.431E+002	
		8.431E+002						
Na-22	10			N	Y	Y	0.000E+000	
	0.000E+000							
Pm-147	36			N	Y	Y	0.000E+000	
	0.000E+000							
Sr-90	303	34		N	Y	Y	3.976E+003	
	6.540E+001	3.911E+003						

Site (Data) : Dnibr SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Sr-90	32			N	Y	Y	1.800E-001	
	1.800E-001							
Sr-90	900			N	Y	Y	4.000E+000	
	4.000E+000							
Tl-204	4			N	Y	Y	0.000E+000	
	0.000E+000							

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					
Cd-109	9			N	Y	Y	3.400E+000	
	3.400E+000							
Cd-109	2			N	Y	Y	0.000E+000	
	0.000E+000							
Ce-139	10			N	Y	Y	0.000E+000	
	0.000E+000							
Cf-252		2		N	Y	Y	2.400E+004	
		2.400E+004						
Co-57	41	2		N	Y	Y	1.690E+001	
	5.900E+000	1.100E+001						
Co-57	10			N	Y	Y	0.000E+000	
	0.000E+000							
Co-60	39			N	Y	Y	1.100E+001	
	1.100E+001							
Co-60	207			N	Y	Y	4.400E+000	
	4.400E+000							
Co-60	1239	19		N	Y	Y	7.302E+004	
	1.700E+001	7.300E+004						

Site (Data) : Dnibr SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Co-60	184			N	Y	Y	9.900E+000	
	9.900E+000							
Co-60	204			N	Y	Y	3.200E+000	
	3.200E+000							
Co-60		695		N	Y	Y	4.600E+004	
		4.600E+004						
Co-60	20			N	Y	Y	0.000E+000	
	0.000E+000							
Co-60	10			N	Y	Y	1.200E+000	
	1.200E+000							
Cs-137	26	52		N	Y	Y	2.375E+003	
	7.500E+001	2.300E+003						
Cs-137		4993		N	Y	Y	2.800E+005	
		2.800E+005						
Cs-137	122	143		N	Y	Y	9.202E+003	
	1.900E+000	9.200E+003						
Cs-137	73	110		N	Y	Y	5.940E+003	
	1.400E+002	5.800E+003						
Cs-137	510	1055		N	Y	Y	7.045E+004	
	4.500E+002	7.000E+004						
Cs-137	97			N	Y	Y	7.000E+001	
	7.000E+001							
Cs-137		119		N	Y	Y	7.500E+003	
		7.500E+003						
Fe-55	2			N	Y	Y	0.000E+000	
	0.000E+000							
Fe-55	4			N	Y	Y	3.000E-001	
	3.000E-001							
Fe-55	6			N	Y	Y	1.000E+001	
	1.000E+001							

Site (Data) : Dnibr SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

H-3	1			N	Y	Y	1.000E-001	
	1.000E-001							
H-3	169			N	Y	Y	3.400E+002	
	3.400E+002							
H-3	1118			N	Y	Y	2.300E+003	
	2.300E+003							
Hg-203	1			N	Y	Y	0.000E+000	
	0.000E+000							
Hg-203	14			N	Y	Y	5.000E+000	
	5.000E+000							
Ir-192	6			N	Y	Y	5.500E+000	
	5.500E+000							
Ir-192		122		N	Y	Y	7.000E+003	
		7.000E+003						
Ir-192	1			N	Y	Y	0.000E+000	
	0.000E+000							
Ir-192		8		N	Y	Y	1.700E+004	
		1.700E+004						
Ir-192	3			N	Y	Y	1.000E-001	
	1.000E-001							
Kr-85		2		N	Y	Y	9.800E+000	
		9.800E+000						
Mn-54	1			N	Y	Y	0.000E+000	
	0.000E+000							
Mn-54	9			N	Y	Y	0.000E+000	
	0.000E+000							
Na-22	7			N	Y	Y	0.000E+000	
	0.000E+000							
Na-22	1			N	Y	Y	0.000E+000	
	0.000E+000							

Site (Data) : Dnibr SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Na-22	1			N	Y	Y	0.000E+000	
	0.000E+000							
P-32	13			N	Y	Y	1.200E+001	
	1.200E+001							
P-32	12			N	Y	Y	3.000E-001	
	3.000E-001							
Pm-147	306	3		N	Y	Y	1.602E+003	
	1.500E+000	1.600E+003						
Pm-147	44	2		N	Y	Y	5.200E+001	
	0.000E+000	5.200E+001						
Pm-147	25			N	Y	Y	0.000E+000	
	0.000E+000							
Pm-147		310		N	Y	Y	1.900E+003	
		1.900E+003						
Se-75	2			N	Y	Y	3.500E+000	
	3.500E+000							
Se-75	1			N	Y	Y	0.000E+000	
	0.000E+000							
Se-75	2			N	Y	Y	0.000E+000	
	0.000E+000							
Sn-113	1			N	Y	Y	0.000E+000	
	0.000E+000							
Sn-113	10			N	Y	Y	0.000E+000	
	0.000E+000							
Sr-90	85			N	Y	Y	5.800E+000	
	5.800E+000							
Sr-90	8352			N	Y	Y	4.400E+001	
	4.400E+001							
Sr-90	559			N	Y	Y	1.100E+003	
	1.100E+003							

Site (Data) : Dnibr SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Th-228	1			N	Y	Y	7.000E-001	
	7.000E-001							
TI-204	48			N	Y	Y	3.000E+000	
	3.000E+000							
TI-204	53			N	Y	Y	7.800E+000	
	7.800E+000							
Y-88	12			N	Y	Y	0.000E+000	
	0.000E+000							
Y-88	1			N	Y	Y	0.000E+000	
	0.000E+000							
Zn-65	3			N	Y	Y	0.000E+000	
	0.000E+000							
Zn-65	8			N	Y	Y	0.000E+000	
	0.000E+000							

Site (Data) : Dnibr SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Spent Sources > 30 years in Storage

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	906		N	Y	Y	0.000E+000	
	0.000E+000						
Am-241	6	16	N	Y	Y	7.819E+002	
	0.000E+000	7.819E+002					
C-14	26		N	Y	Y	0.000E+000	
	0.000E+000						
Pu-238		41	N	Y	Y	1.727E+003	
		1.727E+003					
Pu-239	2239		N	Y	Y	4.000E-001	
	4.000E-001						
Pu-239	21	52	N	Y	Y	2.479E+003	
	3.100E+001	2.448E+003					
Pu-239		1104	N	Y	Y	9.440E+000	
		9.440E+000					
Pu-239		10	N	Y	Y	1.249E+003	
		1.249E+003					
Pu-239	245		N	Y	Y	3.000E+001	
	3.000E+001						
Ra-226	1		N	Y	Y	0.000E+000	
	0.000E+000						
Ra-226	9		N	Y	Y	2.100E+000	
	2.100E+000						

Spent Sources > 30 years in Disposition

Number of Sources/Total Activity of Sources (GBq)	
Group I less than or equal 2 GBq	Group II more than 2GBq

Site (Data) : Dnibr SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Nuclide	num/activity	num/activity	c	u	c	Total Activity for	Decay Date
Am-241	690		N	Y	Y	4.500E+002	
	4.500E+002						
Am-241		52	N	Y	Y	6.700E+002	
		6.700E+002					
Am-241	262		N	Y	Y	4.200E-001	
	4.200E-001						
Am-241		6	N	Y	Y	2.100E+001	
		2.100E+001					
Am-241	1		N	Y	Y	2.100E-005	
	2.100E-005						
Am-241		13	N	Y	Y	2.600E+003	
		2.600E+003					
Am-241		199	N	Y	Y	1.500E+003	
		1.500E+003					
C-14	125		N	Y	Y	1.800E-002	
	1.800E-002						
Ni-63	82		N	Y	Y	7.400E-003	
	7.400E-003						
Ni-63	51		N	Y	Y	1.500E+000	
	1.500E+000						
Ni-63	8		N	Y	Y	3.000E-002	
	3.000E-002						
Ni-63	2		N	Y	Y	2.100E+000	
	2.100E+000						
Pu-238		2	N	Y	Y	7.400E+001	
		7.400E+001					
Pu-238	1		N	Y	Y	3.600E-007	
	3.600E-007						

Site (Data) : Dnibr SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Pu-238	6		N	Y	Y	1.200E+001	
	1.200E+001						
Pu-238	1		N	Y	Y	1.100E+000	
	1.100E+000						
Pu-238	14		N	Y	Y	3.600E+000	
	3.600E+000						
Pu-239	20872	196	N	Y	Y	1.710E+003	
	9.800E+000	1.700E+003					
Pu-239	5708		N	Y	Y	1.900E+001	
	1.900E+001						
Pu-239	1700		N	Y	Y	5.400E+001	
	5.400E+001						
Pu-239	26848		N	Y	Y	3.500E+003	
	3.500E+003						
Ra-226	52		N	Y	Y	1.700E+000	
	1.700E+000						
Ra-226	4		N	Y	Y	4.800E-002	
	4.800E-002						
Ra-226	6		N	Y	Y	1.800E+000	
	1.800E+000						
Ra-226		1	N	Y	Y	3.100E+000	
		3.100E+000					
Ra-226	32		N	Y	Y	1.100E+000	
	1.100E+000						
Th-232	1		N	Y	Y	9.000E-001	
	9.000E-001						
U-233	1		N	Y	Y	8.400E-006	
	8.400E-006						
U-234	5		N	Y	Y	8.300E-007	
	8.300E-007						

Site (Data) : Dnibr SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

U-235	1		N	Y	Y	1.000E-003	
	1.000E-003						
U-238	7		N	Y	Y	1.600E-005	
	1.600E-005						

Multiple Nuclides SRS in Disposition**No data available.**

Site (Structure) : Kh SE

Country: UKRAINE

Reporting Year: 2011

Full Name: Kharkov State Interregional Special Enterprise

Location: 1, Sokolova str., Kharkov, Ukraine, 61115

Description:

Official Website:

License Holder(s): Kharkov State Interregional Special Enterprise
 Director: Sharov Volodymyr
 Fax: +38 057 717 46 85
 Phone: +38 057 293 41 59

Waste management facilities that are located at this site:

Facility:	FAC 1		
Description:	Facility for liquid radioactive waste cementation		
Processing part of facility FAC 1			
The following shows processing status for waste classes and SRS.			
Waste Class	Actual	Planned	
Mid-Active	No	No	
Low-Active	No	No	
High-Active	No	No	
Type:	Conditioning		
Year opened:	1993		

Site (Structure) : Kh SE

Country: UKRAINE

Reporting Year: 2011

Facility:	FAC 2												
Description:	Facility for liquid radioactive waste cementation												
Processing part of facility FAC 2													
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>Mid-Active</td><td>No</td><td>No</td></tr><tr><td>Low-Active</td><td>No</td><td>No</td></tr><tr><td>High-Active</td><td>No</td><td>No</td></tr></tbody></table>	Waste Class	Actual	Planned	Mid-Active	No	No	Low-Active	No	No	High-Active	No	No	
Waste Class	Actual	Planned											
Mid-Active	No	No											
Low-Active	No	No											
High-Active	No	No											
Type:	Conditioning												
Year opened:	1995												

Site (Structure) : Kh SE

Country: UKRAINE

Reporting Year: 2011

Facility:	Module 1
Description:	Concrete modules 1-14 for solid radioactive waste

Disposal part of facility Module 1

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	Yes		
Capacity existing (m3):	1525	Capacity planned (m3):	1525

Depth (m):	3	Host medium:	sedimentary (other)
------------	---	--------------	---------------------

Phase Name	Start Year	End Year	Estimate
operation	1990		False
EVENT: operating license granted	1995	1998	False
EVENT: operating license granted	1998	2003	False
EVENT: operating license granted	2003	2008	False
EVENT: operating license granted	2008	2011	False

Site (Structure) : Kh SE

Country: UKRAINE

Reporting Year: 2011

Facility:	Module 18
Description:	Concrete module for biological radioactive waste

Disposal part of facility Module 18

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	No		
Capacity existing (m3):	60	Capacity planned (m3):	60

Depth (m):	3	Host medium:	sedimentary (other)
------------	---	--------------	---------------------

Phase Name	Start Year	End Year	Estimate
operation	1968		False
EVENT: operating license granted	1995	1998	False
EVENT: operating license granted	1998	2003	False
EVENT: operating license granted	2003	2008	False
EVENT: operating license granted	2008	2011	False
EVENT: operation suspended	1991		False

Site (Structure) : Kh SE

Country: UKRAINE

Reporting Year: 2011

Facility:	Module 19
Description:	Concrete modules for solid radioactive waste

Disposal part of facility Module 19

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	No		
Capacity existing (m3):	400	Capacity planned (m3):	400

Depth (m):	3	Host medium:	sedimentary (other)
------------	---	--------------	---------------------

Phase Name	Start Year	End Year	Estimate
operation	1962		False
EVENT: operating license granted	1995	1998	False
EVENT: operating license granted	1998	2003	False
EVENT: operating license granted	2003	2008	False
EVENT: operating license granted	2008	2011	False
EVENT: operation suspended	1996		False

Site (Structure) : Kh SE

Country: UKRAINE

Reporting Year: 2011

Facility:	Module 20
Description:	Concrete modules for solid radioactive waste

Disposal part of facility Module 20

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	No		
Capacity existing (m3):	400	Capacity planned (m3):	400

Depth (m):	3	Host medium:	sedimentary (other)
------------	---	--------------	---------------------

Phase Name	Start Year	End Year	Estimate
operation	1968		False
ACTIVITY: upgrading	1997	1998	False
EVENT: operating license granted	1995	1998	False
EVENT: operating license granted	1998	2003	False
EVENT: operating license granted	2003	2008	False
EVENT: operating license granted	2008	2011	False
EVENT: operation suspended	1991		False

Site (Structure) : Kh SE

Country: UKRAINE

Reporting Year: 2011

Facility:	Module 21
Description:	Cask for liquid radioactive waste

Storage part of facility Module 21

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Capacity:	1200 m3
-----------	---------

Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Modul 21	cask	1961	No	No	No	No

Site (Structure) : Kh SE

Country: UKRAINE

Reporting Year: 2011

Facility:	PIPE					
Description:	Storage for radioactive contaminated pipes					
Storage part of facility						
PIPE						
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
Mid-Active	Yes	No				
Low-Active	No	No				
High-Active	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:	702m3					
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
PIPE	building	1997	No	Yes	No	No

Site (Structure) : Kh SE

Country: UKRAINE

Reporting Year: 2011

Facility:	SRS 15-16
Description:	Two Modules for Spent Radioactive Sources are operating

Disposal part of facility SRS 15-16

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	No	No
Low-Active	No	No
High-Active	No	No

List SRS?	Yes
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	No		
Capacity existing (m3):	1	Capacity planned (m3):	1

Depth (m):	6	Host medium:	sedimentary rock (consolidated clay)
------------	---	--------------	--------------------------------------

Phase Name	Start Year	End Year	Estimate
operation	1990		False
EVENT: operating license granted	1995	1998	False
EVENT: operating license granted	1998	2003	False
EVENT: operating license granted	2003	2008	False
EVENT: operating license granted	2008	2011	False

Site (Structure) : Kh SE

Country: UKRAINE

Reporting Year: 2011

Facility:	SRS 17
Description:	Module for Spent Radioactive Sources are not operating

Disposal part of facility SRS 17

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	No	No
Low-Active	No	No
High-Active	No	No

List SRS?	Yes
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	No		
Capacity existing (m3):	1	Capacity planned (m3):	1

Depth (m):	6	Host medium:	sedimentary (other)
------------	---	--------------	---------------------

Phase Name	Start Year	End Year	Estimate
operation	1961		False
EVENT: operating license granted	1995	1998	False
EVENT: operating license granted	1998	2003	False
EVENT: operating license granted	2003	2008	False
EVENT: operating license granted	2008	2011	False
EVENT: operation suspended	1991		False

Site (Data) : Kh SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Site Name: Kh SE

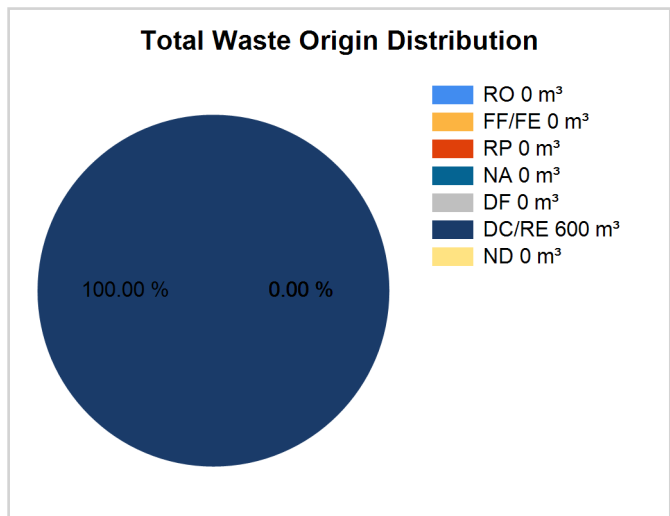
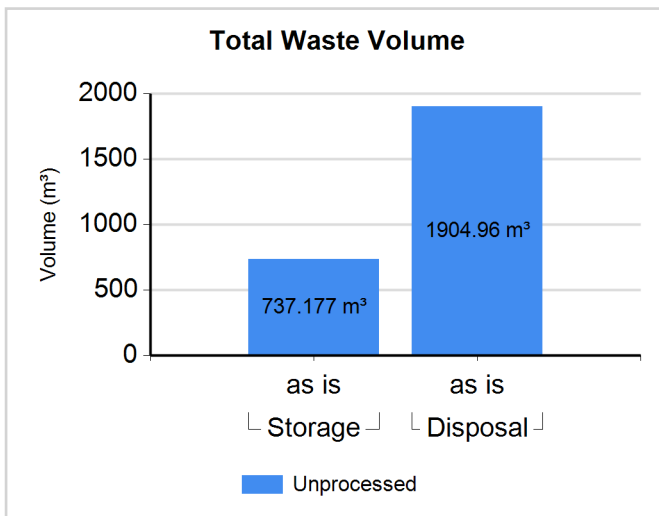
Full Name: Kharkov State Interregional Special Enterprise

Inventory Reporting Date: December 2011

Waste Matrix Used: Ukraine

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: Mid-Active

Waste Class Name	Location / Facility	Proc.	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Mid-Active	Storage / Module 21	N	N	2.047	2.047	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Storage / PIPE	N	N	735.130	735.130	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Disposal / Module 1	N	N	1044.960	1044.960	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Disposal / Module 18	N	N	60.000	60.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Disposal / Module 19	N	N	400.000	400.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Disposal / Module 20	N	N	400.000	400.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Comment # 6808: The additional characteristics of the waste

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

Processed: solid (non-dispersible)

Comment # 22684: pipe

735,13 m3

Site (Data) : Kh SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Processing - Conditioning method(s)

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

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					
Cd-109	22			N	Y	Y	0.000E+000	
Ce-139	1			N	Y	Y	0.000E+000	
	0.000E+000							
Ce-139	1			N	Y	Y	0.000E+000	
Cf-252	1			N	Y	Y	0.000E+000	
Cf-252	1			N	Y	Y	0.000E+000	
	0.000E+000							
Cf-252	16	1		N	Y	Y	1.700E+001	
		1.700E+001						
Co-56	25			N	Y	Y	0.000E+000	
Co-56	17			N	Y	Y	0.000E+000	
Co-56	1			N	Y	Y	0.000E+000	
Co-57	3			N	Y	Y	0.000E+000	

Site (Data) : Kh SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Co-57	1			N	Y	Y	0.000E+000	
Co-57	2			N	Y	Y	0.000E+000	
	0.000E+000							
Co-57	26			N	Y	Y	0.000E+000	
Co-57	1			N	Y	Y	0.000E+000	
	0.000E+000							
Co-58	31			N	Y	Y	0.000E+000	
Co-60	427			N	Y	Y	1.160E+002	
	1.160E+002							
Co-60	81			N	Y	Y	3.070E+002	
	3.070E+002							
Co-60	1			N	Y	Y	0.000E+000	
Co-60	3			N	Y	Y	5.000E+000	
	5.000E+000							
Co-60	75			N	Y	Y	0.000E+000	
Co-60	1			N	Y	Y	0.000E+000	
Co-60	1630			N	Y	Y	2.650E+002	
	2.650E+002							
Co-60	20			N	Y	Y	0.000E+000	
	0.000E+000							
Co-60	2			N	Y	Y	4.000E+000	
	4.000E+000							
Co-60		2		N	Y	Y	4.700E+001	
		4.700E+001						

Site (Data) : Kh SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Co-60		29		N	Y	Y	3.100E+002	
		3.100E+002						
Co-60	39			N	Y	Y	0.000E+000	
	0.000E+000							
Co-60	30			N	Y	Y	6.350E+001	
	6.350E+001							
Cs-134	1			N	Y	Y	0.000E+000	
	0.000E+000							
Cs-137	703			N	Y	Y	8.700E+001	
	8.700E+001							
Cs-137	75			N	Y	Y	1.000E+002	
	1.000E+002							
Cs-137		318		N	Y	Y	1.000E+004	
		1.000E+004						
Cs-137		2557	1	N	Y	Y	8.450E+004	
		8.450E+004						
Cs-137	78			N	Y	Y	2.000E+001	
	2.000E+001							
Cs-137		111		N	Y	Y	5.900E+003	
		5.900E+003						
Cs-137		271		N	Y	Y	1.100E+004	
		1.100E+004						
Cs-137	2			N	Y	Y	0.000E+000	
Cs-137		2557		N	Y	Y	8.450E+004	
		8.450E+004						
Cs-137	6	89		N	Y	Y	2.128E+003	
	7.900E+000	2.120E+003						
Cs-137	9			N	Y	Y	3.270E+000	
	3.270E+000							

Site (Data) : Kh SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Cs-137	60	520		N	Y	Y	2.603E+004	
	2.660E+001	2.600E+004						
Cs-137		2		N	Y	Y	7.000E+000	
		7.000E+000						
Eu-152		1		N	Y	Y	2.300E+001	
		2.300E+001						
Fe-55	15			N	Y	Y	2.000E+000	
	2.000E+000							
Fe-55	2			N	Y	Y	0.000E+000	
Fe-55	2			N	Y	Y	0.000E+000	
Fe-59	8			N	Y	Y	0.000E+000	
H-3	43			N	Y	Y	1.000E-001	
	1.000E-001							
H-3	376			N	Y	Y	1.800E+002	
	1.800E+002							
H-3		38		N	Y	Y	3.100E+004	
		3.100E+004						
H-3		10		N	Y	Y	1.610E+002	
		1.610E+002						
Hg-203	1			N	Y	Y	0.000E+000	
	0.000E+000							
Hg-203	5			N	Y	Y	1.000E+000	
	1.000E+000							
I-125	2			N	Y	Y	0.000E+000	
I-131	1			N	Y	Y	1.000E+000	
	1.000E+000							

Site (Data) : Kh SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Ir-192	12			N	Y	Y	1.000E-001	
	1.000E-001							
Ir-192	3			N	Y	Y	8.800E+000	
	8.800E+000							
Ir-192	1			N	Y	Y	2.300E+000	
	2.300E+000							
Ir-192	221			N	Y	Y	4.000E-001	
	4.000E-001							
Ir-192	12			N	Y	Y	1.120E+001	
	1.120E+001							
Kr-85	1			N	Y	Y	2.300E+000	
	2.300E+000							
Mn-54	13			N	Y	Y	0.000E+000	
Mn-54	1			N	Y	Y	0.000E+000	
	0.000E+000							
Mn-54	5			N	Y	Y	0.000E+000	
Na-22	3			N	Y	Y	0.000E+000	
Na-22	1			N	Y	Y	0.000E+000	
Na-22	1			N	Y	Y	0.000E+000	
	0.000E+000							
Na-22	14			N	Y	Y	0.000E+000	
Pm-147	42	10		N	Y	Y	3.602E+002	
	2.000E-001	3.600E+002						
Pm-147	21			N	Y	Y	0.000E+000	

Site (Data) : Kh SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Pm-147	10			N	Y	Y	0.000E+000	
Po-210	130			N	Y	Y	0.000E+000	
Ru-106	1			N	Y	Y	0.000E+000	
Sn-113	24			N	Y	Y	0.000E+000	
Sn-113	1			N	Y	Y	0.000E+000	
	0.000E+000							
Sn-119m	3			N	Y	Y	0.000E+000	
Sn-119m	1			N	Y	Y	0.000E+000	
Sn-119m	2			N	Y	Y	0.000E+000	
	0.000E+000							
Sr-90	45			N	Y	Y	0.000E+000	
	0.000E+000							
Sr-90	2			N	Y	Y	0.000E+000	
	0.000E+000							
Sr-90	6459			N	Y	Y	2.090E+002	
	2.090E+002							
Sr-90	100			N	Y	Y	2.500E+001	
	2.500E+001							
Sr-90	18			N	Y	Y	0.000E+000	
Sr-90	1837	1		N	Y	Y	3.000E+002	
	3.000E+002							
Sr-90		20		N	Y	Y	1.600E+002	
		1.600E+002						

Site (Data) : Kh SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Sr-90	165			N	Y	Y	5.300E+001	
	5.300E+001							
Sr-90		1		N	Y	Y	3.200E+001	
		3.200E+001						
TI-204	9			N	Y	Y	3.100E+000	
	3.100E+000							
TI-204	4			N	Y	Y	2.100E+000	
	2.100E+000							
TI-204	1			N	Y	Y	0.000E+000	
Tm-170	2			N	Y	Y	0.000E+000	
Tm-170	1			N	Y	Y	0.000E+000	
Tm-170	21			N	Y	Y	0.000E+000	
Tm-170	1			N	Y	Y	0.000E+000	
Y-88	1			N	Y	Y	0.000E+000	
	0.000E+000							
Zn-65	79			N	Y	Y	0.000E+000	
Zn-65			1	N	Y	Y	1.090E+005	
			1.090E+005					

Spent Sources > 30 years in Disposition

Nuclide	Number of Sources/Total Activity of Sources (GBq)		c	u	c	Total Activity for all Groups (GBq)	Decay Date			
	Group I less than or equal 2 GBq	Group II more than 2GBq						n	n	a
	num/activity	num/activity						d	d	t

Site (Data) : Kh SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Am-241		6	N	Y	Y	7.280E+001	
		7.280E+001					
Am-241	82		N	Y	Y	2.700E+000	
	2.700E+000						
Am-241	2		N	Y	Y	0.000E+000	
	0.000E+000						
Am-241	160		N	Y	Y	9.800E+001	
	9.800E+001						
Am-241		75	N	Y	Y	1.100E+003	
		1.100E+003					
Am-241	50	48	N	Y	Y	5.629E+002	
	1.690E+001	5.460E+002					
Am-243		1	N	Y	Y	1.500E+003	
		1.500E+003					
C-14	5		N	Y	Y	4.000E-001	
	4.000E-001						
C-14	6		N	Y	Y	1.000E-001	
	1.000E-001						
Ni-63	10		N	Y	Y	8.100E+000	
	8.100E+000						
Ni-63	5		N	Y	Y	1.570E+000	
	1.570E+000						
Ni-63	14		N	Y	Y	8.800E+000	
	8.800E+000						
Np-237	2		N	Y	Y	0.000E+000	
	0.000E+000						
Pu-238	2715		N	Y	Y	3.100E+000	
	3.100E+000						
Pu-238	1553		N	Y	Y	9.100E+002	
	9.100E+002						

Site (Data) : Kh SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Pu-238		78	N	Y	Y	8.000E+003	
		8.000E+003					
Pu-238	4	1	N	Y	Y	7.300E+000	
		7.300E+000					
Pu-238	2		N	Y	Y	0.000E+000	
		0.000E+000					
Pu-239	1744		N	Y	Y	0.000E+000	
Pu-239	141		N	Y	Y	0.000E+000	
		0.000E+000					
Pu-239	18923		N	Y	Y	3.600E+002	
		3.600E+002					
Pu-239		8	N	Y	Y	1.000E+002	
		1.000E+002					
Pu-239	9453		N	Y	Y	1.300E+001	
		1.300E+001					
Pu-239		1	N	Y	Y	1.600E+002	
		1.600E+002					
Pu-239	2		N	Y	Y	0.000E+000	
		0.000E+000					
Pu-239	3		N	Y	Y	0.000E+000	
		0.000E+000					
Pu-239	10098		N	Y	Y	3.200E+002	
		3.200E+002					
Pu-239	1		N	Y	Y	0.000E+000	
Ra-226	2		N	Y	Y	3.700E-001	
		3.700E-001					
Ra-226	5		N	Y	Y	0.000E+000	
		0.000E+000					

Site (Data) : Kh SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Ra-226	1		N	Y	Y	0.000E+000	
	0.000E+000						
Ra-226	5		N	Y	Y	0.000E+000	
Ra-226	978		N	Y	Y	2.000E-001	
	2.000E-001						
Ra-226	2		N	Y	Y	0.000E+000	
	0.000E+000						
Th-232	2		N	Y	Y	0.000E+000	
Th-232	1		N	Y	Y	0.000E+000	
U-234	53		N	Y	Y	0.000E+000	
	0.000E+000						
U-238	26		N	Y	Y	0.000E+000	
U-238	2		N	Y	Y	0.000E+000	
U-238	43		N	Y	Y	0.000E+000	
	0.000E+000						

Multiple Nuclides SRS in Disposition

Nuclide	Activity of Sources (GBq)	cond	uncond	cat	Decay Date
Sr-90	1.300E+002	N	Y	Y	
Y-90	0.000E+000	N	Y	N	
Sr-90	5.300E-001	N	Y	Y	

Site (Structure) : Kiev SE

Country: UKRAINE

Reporting Year: 2011

Full Name: Kiev State Interregional Special Enterprise

Location: 1, Komunalna str., Kiev, Ukraine, 03026

Description:

Official Website:

License Holder(s): Kiev State Interregional Special Enterprise
 Director: Arkadiy Uskov
 Fax: +38 044 259 41 13

Waste management facilities that are located at this site:

Facility:	LRW					
Description:	Casks for liquid radioactive waste					
Storage part of facility						
LRW						
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
Mid-Active	Yes	No				
Low-Active	No	No				
High-Active	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:	1000m3					
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Modul 12	cask	1962	No	No	No	No
Modul 13	cask	1962	No	No	No	No
Modul 14	cask	1962	No	No	No	No
Modul 15	cask	1986	No	No	No	No
Modul 16	cask	1986	No	No	No	No

Site (Structure) : Kiev SE

Country: UKRAINE

Reporting Year: 2011

Facility:	Modul 8-10
Description:	Concrete modules for solid radioactive waste

Disposal part of facility Modul 8-10

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	Yes		
Capacity existing (m3):	610	Capacity planned (m3):	610

Depth (m):	4	Host medium:	sedimentary (sand)
------------	---	--------------	--------------------

Phase Name	Start Year	End Year	Estimate
operation	1962		False
EVENT: operating license granted	1996	1999	False
EVENT: operating license granted	1999	2002	False
EVENT: operating license granted	2002	2005	False
EVENT: operating license granted	2005	2008	False
EVENT: operating license granted	2008	2011	False
EVENT: operating license revoked	1996	1997	False
EVENT: operating license re-instated	1997	1997	False
EVENT: operation suspended	1975		False

Site (Structure) : Kiev SE

Country: UKRAINE

Reporting Year: 2011

Facility:	Module 5-7
Description:	Concrete modules for solid radioactive waste

Disposal part of facility Module 5-7

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	No		
Capacity existing (m3):	1200	Capacity planned (m3):	1200

Depth (m):	4	Host medium:	sedimentary (sand)
------------	---	--------------	--------------------

Phase Name	Start Year	End Year	Estimate
operation	1975		False
ACTIVITY: upgrading	1997	1997	False
EVENT: operating license granted	1996	1999	False
EVENT: operating license granted	1999	2002	False
EVENT: operating license granted	2002	2005	False
EVENT: operating license granted	2005	2008	False
EVENT: operating license granted	2008	2011	False
EVENT: operating license revoked	1996	1997	False
EVENT: operating license re-instated	1997	1997	False
EVENT: operation suspended	1989		False

Site (Structure) : Kiev SE

Country: UKRAINE

Reporting Year: 2011

Facility:	SRS 1-6
Description:	Moduls for spent radioactive sources

Disposal part of facility SRS 1-6

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	No	No
Low-Active	No	No
High-Active	No	No

List SRS?	Yes
List UMMT?	No

Type:	engineered surface		
Facility is modular?	Yes		
Capacity existing (m3):	1	Capacity planned (m3):	1

Depth (m):	6	Host medium:	sedimentary rock (consolidated clay)
------------	---	--------------	---

Phase Name	Start Year	End Year	Estimate
operation	1962		False
EVENT: operating license granted	1996	1999	False
EVENT: operating license granted	1999	2002	False
EVENT: operating license granted	2002	2005	False
EVENT: operating license granted	2005	2008	False
EVENT: operating license granted	2008	2011	False
EVENT: operation suspended	1996		False

Site (Structure) : Kiev SE

Country: UKRAINE

Reporting Year: 2011

Facility:	Stor 2
Description:	Building for storage solid radioactive waste in containers

Storage part of facility Stor 2

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	Yes	No

List SRS?	Yes
List UMMT?	No

Capacity:	328.2m3
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Stor 1	building	1995	No	No	No	Yes
Stor 2	building	1995	No	No	No	Yes
Stor 3	building	1995	No	No	No	Yes

Site (Data) : Kiev SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Site Name: Kiev SE

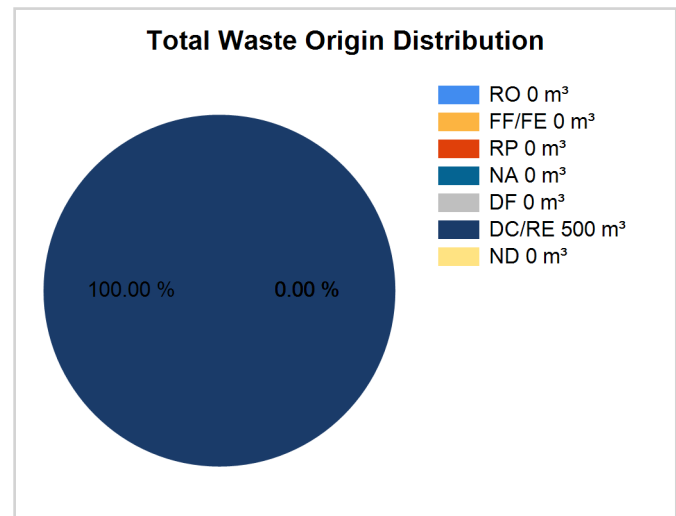
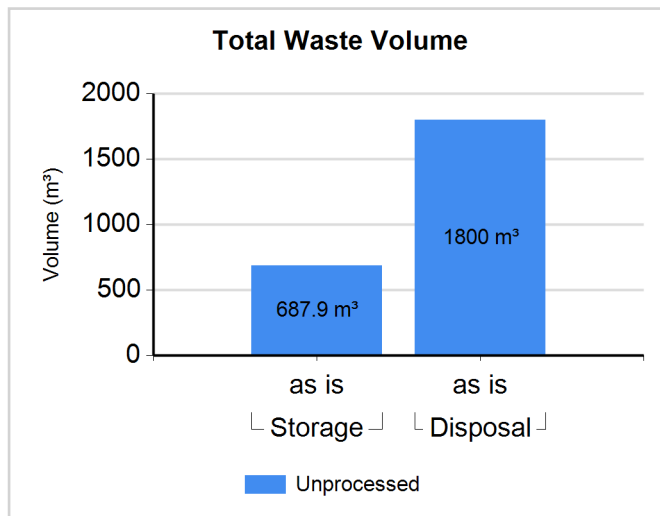
Full Name: Kiev State Interregional Special Enterprise

Inventory Reporting Date: December 2011

Waste Matrix Used: Ukraine

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: Mid-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Mid-Active	Storage / LRW	N	N	429.900	429.900	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Storage / Stor 2	N	N	254.000	254.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Disposal / Modul 8 -10	N	N	600.000	600.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Disposal / Module 5-7	N	N	1200.000	1200.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Comment # 6793: The additional characteristics of the waste

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

Waste Class: High-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
High-Active	Storage	N	N	4.000	4.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Comment # 6797: The additional characteristics of the waste

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

Spent Sources <=30 years in Storage

Number of Sources/Total Activity of Sources (GBq)

Site (Data) : Kiev SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Nuclide	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	c o n d	u n c o n	c a t	Total Activity for all Groups (GBq)	Decay Date
	num/activity	num/activity	num/activity					
Ba-133	11			N	Y	Y	0.000E+000	
	0.000E+000							
Cd-109	6			N	Y	Y	0.000E+000	
	0.000E+000							
Ce-139	14			N	Y	Y	0.000E+000	
	0.000E+000							
Co-57	16			N	Y	Y	0.000E+000	
	0.000E+000							
Co-57	7			N	Y	Y	0.000E+000	
	0.000E+000							
Co-60		48		N	Y	Y	2.580E+002	
		2.580E+002						
Co-60	33			N	Y	Y	1.200E+000	
	1.200E+000							
Cs-137		98		N	Y	Y	3.040E+005	
		3.040E+005						
Cs-137		34		N	Y	Y	1.913E+002	
		1.913E+002						
Cs-137		8		N	Y	Y	3.035E+005	
		3.035E+005						
Eu-152	5			N	Y	Y	0.000E+000	
	0.000E+000							
Eu-152	6			N	Y	Y	0.000E+000	
	0.000E+000							
Fe-55	7			N	Y	Y	0.000E+000	
	0.000E+000							

Site (Data) : Kiev SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

H-3		810		N	Y	Y	3.611E+003	
		3.611E+003						
H-3		5		N	Y	Y	4.830E+003	
		4.830E+003						
Hg-203	9			N	Y	Y	0.000E+000	
	0.000E+000							
Ir-192	203			N	Y	Y	9.300E+000	
	9.300E+000							
Ir-192		2		N	Y	Y	7.540E+000	
		7.540E+000						
Kr-85	1			N	Y	Y	2.100E+000	
	2.100E+000							
Mn-52	14			N	Y	Y	0.000E+000	
	0.000E+000							
Mn-54	1			N	Y	Y	0.000E+000	
	0.000E+000							
Na-22	4			N	Y	Y	0.000E+000	
	0.000E+000							
Na-22	19			N	Y	Y	0.000E+000	
	0.000E+000							
Pm-147	2			N	Y	Y	0.000E+000	
	0.000E+000							
Pm-147		1		N	Y	Y	1.180E+001	
		1.180E+001						
Sn-113	14			N	Y	Y	0.000E+000	
	0.000E+000							
Sr-90	666			N	Y	Y	5.270E+001	
	5.270E+001							
Tl-204	4			N	Y	Y	0.000E+000	
	0.000E+000							

Site (Data) : Kiev SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Y-88	9			N	Y	Y	0.000E+000	
	0.000E+000							
Zn-65	15			N	Y	Y	0.000E+000	
	0.000E+000							

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					
Cf-252	59			N	Y	Y	0.000E+000	
	0.000E+000							
Co-57	2			N	Y	Y	0.000E+000	
	0.000E+000							
Co-60		16		N	Y	Y	1.938E+004	
		1.938E+004						
Co-60		12		N	Y	Y	1.586E+004	
		1.586E+004						
Co-60		328		N	Y	Y	2.322E+004	
		2.322E+004						
Co-60		201		N	Y	Y	1.193E+004	
		1.193E+004						
Co-60		229		N	Y	Y	2.381E+004	
		2.381E+004						
Co-60		477		N	Y	Y	1.267E+004	
		1.267E+004						
Cs-137		457		N	Y	Y	3.546E+004	
		3.546E+004						
Cs-137		2		N	Y	Y	4.624E+002	
		4.624E+002						

Site (Data) : Kiev SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Cs-137	289			N	Y	Y	3.850E+002	
	3.850E+002							
Cs-137		913		N	Y	Y	4.228E+004	
		4.228E+004						
Po-210	17			N	Y	Y	0.000E+000	
	0.000E+000							
Ta-182	1			N	Y	Y	0.000E+000	
	0.000E+000							

Spent Sources > 30 years in Storage

Nuclide	Number of Sources/Total Activity of Sources (GBq)		c	o	n	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	1		N	Y	Y	Y	Y	0.000E+000		
	0.000E+000									
Am-241	16		N	Y	Y	Y	Y	0.000E+000		
	0.000E+000									
C-14	50		N	Y	Y	Y	Y	0.000E+000		
	0.000E+000									
K-40	7		N	Y	Y	Y	Y	0.000E+000		
	0.000E+000									
K-40	1		N	Y	Y	Y	Y	0.000E+000		
	0.000E+000									
Pu-238	4		N	Y	Y	Y	Y	0.000E+000		
	0.000E+000									
Pu-239	754		N	Y	Y	Y	Y	9.900E+000		
	9.900E+000									
Pu-239		2731	N	Y	Y	Y	Y	1.180E+002		
		1.180E+002								

Site (Data) : Kiev SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Ra-226	8		N	Y	Y	0.000E+000	
	0.000E+000						
Ra-226	6		N	Y	Y	0.000E+000	
	0.000E+000						
Th-232	2		N	Y	Y	0.000E+000	
	0.000E+000						
U-233	2		N	Y	Y	0.000E+000	
	0.000E+000						
U-238	1		N	Y	Y	0.000E+000	
	0.000E+000						

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	3		N	Y	Y	1.400E+000	
	1.400E+000						
Pu-239		1	N	Y	Y	1.965E+004	
		1.965E+004					
Ra-226	32		N	Y	Y	2.270E+001	
	2.270E+001						

Multiple Nuclides SRS in Storage

Nuclide	Activity of Sources (GBq)	cond	uncond	cat	Decay Date
Sr-90	2.759E+000	N	Y	Y	

Site (Structure) : LvivSE

Country: UKRAINE

Reporting Year: 2011

Full Name: Lviv State Interregional Special Enterprise

Location: 4, Tadzhitska str., Lviv, Ukraine, 79045

Description:

Official Website:

License Holder(s): Lviv State Interregional Special Enterprise. Director: Volochyi Yaroslav. Phone: +38 0322 51 18 90. Fax: +38 0322 51 19 00

Waste management facilities that are located at this site:

Facility:	LRW					
Description:	Cask for liquid radioactive waste (empty)					
Storage part of facility						
LRW						
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
Mid-Active	No	Yes				
Low-Active	No	Yes				
High-Active	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:	200m3					
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Cask 1	cask	1963	No	No	No	No

Site (Structure) : LvivSE

Country: UKRAINE

Reporting Year: 2011

Facility:	Module 1
Description:	Concrete modules for solid radioactive waste

Disposal part of facility Module 1

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Type:	engineered surface		
Facility is modular?	Yes		
Capacity existing (m3):	200	Capacity planned (m3):	200

Depth (m):	4	Host medium:	sedimentary rock (plastic clay)
------------	---	--------------	------------------------------------

Phase Name	Start Year	End Year	Estimate
operation	1980	2012	False

Site (Structure) : LvivSE

Country: UKRAINE

Reporting Year: 2011

Facility:	Module 2
Description:	Modul for solid radioactive waste

Storage part of facility Module 2

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Capacity:	120m3
------------------	-------

Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Module 2	not in list	1979	No	No	Yes	No

Site (Structure) : LvivSE

Country: UKRAINE

Reporting Year: 2011

Facility:	Module 3
Description:	Modul for solid radioactive waste

Disposal part of facility Module 3

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	No	No
Low-Active	No	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	No		
Capacity existing (m3):	120	Capacity planned (m3):	120

Depth (m):	4	Host medium:	sedimentary rock (consolidated clay)
------------	---	--------------	---

Phase Name	Start Year	End Year	Estimate
closure	1980	2010	False

Site (Structure) : LvivSE

Country: UKRAINE

Reporting Year: 2011

Facility:	Module 4
Description:	Modul for solid radioactive waste

Disposal part of facility Module 4

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	Yes		
Capacity existing (m3):	120	Capacity planned (m3):	120

Depth (m):	4	Host medium:	sedimentary rock (consolidated clay)
------------	---	--------------	---

Phase Name	Start Year	End Year	Estimate
operation	1989	0	False
EVENT: operating license granted	2009	2012	False

Site (Structure) : LvivSE

Country: UKRAINE

Reporting Year: 2011

Facility:	Module 5
Description:	Modul for solid radioactive waste

Storage part of facility Module 5

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Capacity:	120m3
------------------	-------

Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Module 5	not in list	1979	No	No	Yes	No

Site (Structure) : LvivSE

Country: UKRAINE

Reporting Year: 2011

Facility:	Module 6					
Description:	Modul for solid radioactive waste					
Storage part of facility Module 6						
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
Mid-Active	Yes	No				
Low-Active	No	No				
High-Active	No	No				
List SRS?	Yes					
List UMMT?	No					
Capacity:	120m3					
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Module 6	not in list	1978	No	No	Yes	No

Site (Structure) : LvivSE

Country: UKRAINE

Reporting Year: 2011

Facility:	Module 7
Description:	Modul for solid radioactive waste

Storage part of facility Module 7

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Capacity:	120m3
-----------	-------

Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Module 7	not in list	1979	No	No	Yes	No

Site (Structure) : LvivSE

Country: UKRAINE

Reporting Year: 2011

Facility:	Module 8
Description:	Modul for solid biological radioactive waste

Storage part of facility Module 8

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	No	No

List SRS?	Yes
List UMMT?	No

Capacity:	120m3
------------------	-------

Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Module 8	not in list	1979	No	No	Yes	No

Site (Structure) : LvivSE

Country: UKRAINE

Reporting Year: 2011

Facility:	Module B
Description:	Modul for solid biological radioactive waste

Disposal part of facility Module B

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	No		
Capacity existing (m3):	100	Capacity planned (m3):	100

Depth (m):	4	Host medium:	sedimentary rock (consolidated clay)
------------	---	--------------	---

Phase Name	Start Year	End Year	Estimate
operation	1989	0	False
EVENT: operating license granted	1995	1998	False
EVENT: operating license granted	1998	2001	False
EVENT: operating license granted	2001	2004	False
EVENT: operating license granted	2004	2009	False
EVENT: operating license granted	2009	2012	False

Site (Structure) : LvivSE

Country: UKRAINE

Reporting Year: 2011

Facility:	SRS 1
Description:	Metalic - concrete modul. Operation Years:1982-1989.

Disposal part of facility SRS 1

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	No	No
Low-Active	No	No
High-Active	No	No

List SRS?	Yes
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	No		
Capacity existing (m3):	1	Capacity planned (m3):	1

Depth (m):	6	Host medium:	sedimentary rock (consolidated clay)
------------	---	--------------	---

Phase Name	Start Year	End Year	Estimate
operation	1982	0	False
EVENT: operating license granted	1995	1998	False
EVENT: operating license granted	1998	2001	False
EVENT: operating license granted	2001	2004	False
EVENT: operating license granted	2004	2009	False
EVENT: operating license granted	2009	2012	False
EVENT: operation suspended	2009	0	False

Site (Structure) : LvivSE

Country: UKRAINE

Reporting Year: 2011

Facility:	SRS 2
Description:	Metallic - concrete module for disposal SRS in operation from 1982

Disposal part of facility SRS 2

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	No	No
Low-Active	No	No
High-Active	No	No

List SRS?	Yes
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	No		
Capacity existing (m3):	1	Capacity planned (m3):	1

Depth (m):	6	Host medium:	sedimentary rock (consolidated clay)
------------	---	--------------	--------------------------------------

Phase Name	Start Year	End Year	Estimate
operation	1982		False
EVENT: operating license granted	1995	1998	False
EVENT: operating license granted	1998	2001	False
EVENT: operating license granted	2001	2004	False
EVENT: operating license granted	2004	2009	False
EVENT: operating license granted	2009	2012	False

Site (Structure) : LvivSE

Country: UKRAINE

Reporting Year: 2011

Facility:	SRS 3
Description:	Metalic - concrete modul for disposal SRS in operation from 1982

Disposal part of facility SRS 3

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	No	No
Low-Active	No	No
High-Active	No	No

List SRS?	Yes
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	No		
Capacity existing (m3):	1	Capacity planned (m3):	1

Depth (m):	6	Host medium:	sedimentary rock (consolidated clay)
------------	---	--------------	--------------------------------------

Phase Name	Start Year	End Year	Estimate
operation	1982		False
EVENT: operating license granted	1995	1998	False
EVENT: operating license granted	1998	2001	False
EVENT: operating license granted	2001	2004	False
EVENT: operating license granted	2004	2009	False
EVENT: operating license granted	2009	2012	False

Site (Data) : LvivSE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Site Name: LvivSE

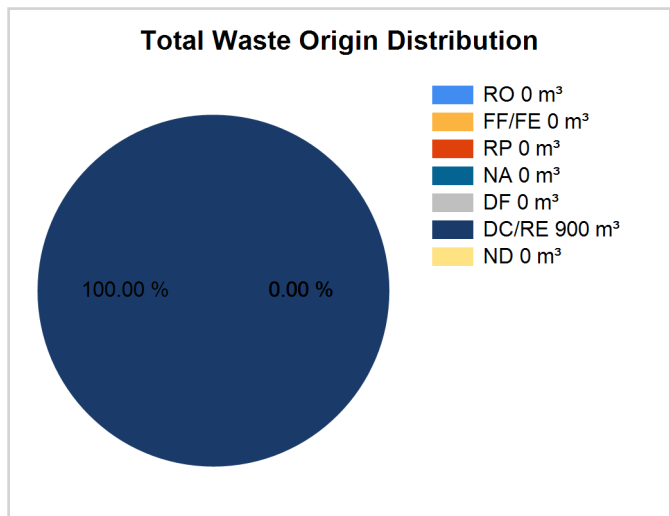
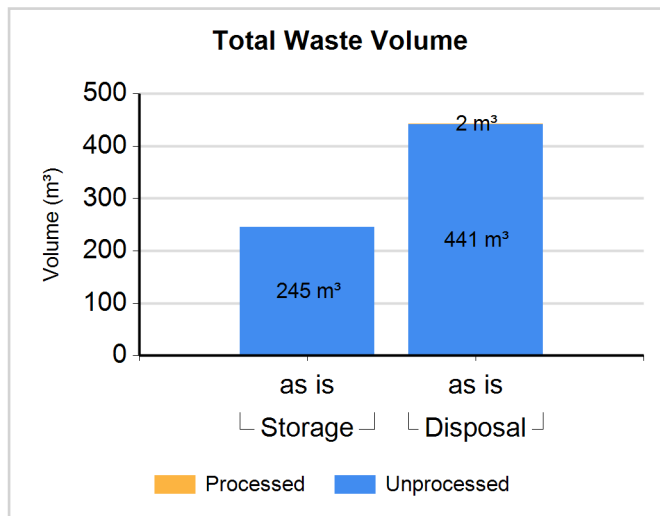
Full Name: Lviv State Interregional Special Enterprise

Inventory Reporting Date: December 2011

Waste Matrix Used: Ukraine

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: Mid-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Mid-Active	Storage / Module 2	N	N	80.700	80.700	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Storage / Module 5	N	N	62.070	62.070	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Storage / Module 6	N	N	24.070	24.070	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Storage / Module 7	N	N	70.980	70.980	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Storage / Module 8	N	N	7.180	7.180	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Disposal / Module 1	N	N	200.000	200.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Disposal / Module 4	N	N	240.000	240.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Disposal / Module B	N	N	1.000	1.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Disposal / Module B	Y	N	2.000	2.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Comment # 6798: The additional characteristics of the waste

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

Spent Sources <=30 years in Storage

Site (Data) : LvivSE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

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					
Ba-133	2			N	Y	Y	0.000E+000	
	0.000E+000							
Cd-109	2			N	Y	Y	0.000E+000	
	0.000E+000							
Ce-139	5			N	Y	Y	0.000E+000	
	0.000E+000							
Co-57	5			N	Y	Y	0.000E+000	
	0.000E+000							
Co-60		50		N	Y	Y	7.000E+000	
		7.000E+000						
Co-60	2			N	Y	Y	0.000E+000	
	0.000E+000							
Cs-137	9	3		N	Y	Y	6.750E+001	
	0.000E+000	6.750E+001						
Ir-192	3			N	Y	Y	6.500E-001	
	6.500E-001							
Kr-85		1		N	Y	Y	7.610E+000	
		7.610E+000						
Mn-54	4			N	Y	Y	0.000E+000	
	0.000E+000							
Na-22	1			N	Y	Y	0.000E+000	
	0.000E+000							
Sn-113	5			N	Y	Y	0.000E+000	
	0.000E+000							
Y-88	5			N	Y	Y	0.000E+000	
	0.000E+000							

Site (Data) : LvivSE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Zn-65	5			N	Y	Y	0.000E+000	
	0.000E+000							

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					
Cd-109	1			N	Y	Y	1.000E-001	
	1.000E-001							
Ce-139	3			N	Y	Y	0.000E+000	
Co-57	3			N	Y	Y	0.000E+000	
Co-57	3			N	Y	Y	0.000E+000	
Co-57	3			N	Y	Y	0.000E+000	
Co-60	9			N	Y	Y	0.000E+000	
Co-60	2			N	Y	Y	1.000E-001	
	1.000E-001							
Co-60		243		N	Y	Y	7.300E+001	
		7.300E+001						
Co-60	2			N	Y	Y	1.000E-001	
	1.000E-001							
Co-60		114		N	Y	Y	4.850E+001	
		4.850E+001						
Co-60		11		N	Y	Y	8.000E+001	
		8.000E+001						

Site (Data) : LvivSE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Co-60		62		N	Y	Y	7.000E+000	
		7.000E+000						
Co-60	2			N	Y	Y	0.000E+000	
Cs-137		18		N	Y	Y	1.200E+003	
		1.200E+003						
Cs-137		65		N	Y	Y	5.750E+002	
		5.750E+002						
Cs-137	5			N	Y	Y	0.000E+000	
Cs-137		81		N	Y	Y	2.700E+001	
		2.700E+001						
Cs-137		279		N	Y	Y	1.300E+004	
		1.300E+004						
Cs-137	11	229		N	Y	Y	1.000E+004	
	5.000E-001	1.000E+004						
Cs-137		854		N	Y	Y	3.511E+003	
		3.511E+003						
Cs-137		118		N	Y	Y	4.568E+003	
		4.568E+003						
Eu-152	10			N	Y	Y	0.000E+000	
Fe-55	1			N	Y	Y	1.800E+000	
		1.800E+000						
Fe-55	1			N	Y	Y	0.000E+000	
Fe-55	1			N	Y	Y	0.000E+000	
H-3		6551		N	Y	Y	5.900E+000	
		5.900E+000						

Site (Data) : LvivSE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

H-3		6600		N	Y	Y	2.901E+004	
		2.901E+004						
H-3	2			N	Y	Y	3.800E+000	
	3.800E+000							
H-3		11		N	Y	Y	1.300E+003	
		1.300E+003						
Hg-203	23			N	Y	Y	0.000E+000	
Ir-192	5			N	Y	Y	2.000E-001	
	2.000E-001							
Ir-192		7		N	Y	Y	1.700E+001	
		1.700E+001						
Ir-192		412		N	Y	Y	1.900E+002	
		1.900E+002						
Ir-192		51		N	Y	Y	1.800E+001	
		1.800E+001						
Ir-192	10	9		N	Y	Y	4.413E+002	
	1.300E+000	4.400E+002						
Ir-192		9		N	Y	Y	8.500E+001	
		8.500E+001						
Ir-192		8		N	Y	Y	3.200E+002	
		3.200E+002						
Kr-85	8			N	Y	Y	1.000E+000	
	1.000E+000							
Kr-85		9		N	Y	Y	6.000E+000	
		6.000E+000						
Kr-85		17		N	Y	Y	6.000E+000	
		6.000E+000						
Kr-85	9			N	Y	Y	2.400E+000	
	2.400E+000							

Site (Data) : LvivSE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Mn-54	4			N	Y	Y	0.000E+000	
Na-22	5			N	Y	Y	0.000E+000	
Na-22	1			N	Y	Y	0.000E+000	
Na-22	1			N	Y	Y	0.000E+000	
Pm-147	137			N	Y	Y	0.000E+000	
Pm-147	152			N	Y	Y	2.000E-001	
	2.000E-001							
Pm-147	1			N	Y	Y	1.200E+000	
	1.200E+000							
Pm-147	15			N	Y	Y	3.500E+000	
	3.500E+000							
Sn-113	3			N	Y	Y	0.000E+000	
Sr-90	4			N	Y	Y	0.000E+000	
Sr-90		32232		N	Y	Y	1.300E+001	
		1.300E+001						
Sr-90	13			N	Y	Y	0.000E+000	
Sr-90	4			N	Y	Y	0.000E+000	
Sr-90	79			N	Y	Y	0.000E+000	
Sr-90		58		N	Y	Y	1.800E+001	
		1.800E+001						

Site (Data) : LvivSE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Sr-90		4421		N	Y	Y	1.100E+002	
		1.100E+002						
Sr-90	67			N	Y	Y	3.500E+000	
	3.500E+000							
Sr-90		4355		N	Y	Y	9.400E+001	
		9.400E+001						
Th-228	2			N	Y	Y	0.000E+000	
TI-204	17			N	Y	Y	0.000E+000	
TI-204	17			N	Y	Y	0.000E+000	
Y-88	3			N	Y	Y	0.000E+000	
Zn-65	3			N	Y	Y	0.000E+000	

Spent Sources > 30 years in Storage

Nuclide	Number of Sources/Total Activity of Sources (GBq)		c	u	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	1		N	Y	Y	Y	0.000E+000		
	0.000E+000								
Pu-239		110	N	Y	Y	Y	2.300E+000		
		2.300E+000							
Pu-239	1		N	Y	Y	Y	0.000E+000		
	0.000E+000								
Ra-226	1		N	Y	Y	Y	0.000E+000		
	0.000E+000								

Spent Sources > 30 years in Disposition

Site (Data) : LvivSE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

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	401		N	Y	Y	7.000E+001	
	7.000E+001						
Am-241	153		N	Y	N	2.200E+001	
	2.200E+001						
Am-241		1	N	Y	N	2.200E+001	
		2.200E+001					
Cf-251		8	N	Y	N	8.000E+002	
		8.000E+002					
Pu-238	1		N	Y	Y	1.100E+000	
	1.100E+000						
Pu-238		48	N	Y	Y	3.600E+002	
		3.600E+002					
Pu-239	6544		N	Y	Y	8.700E+001	
	8.700E+001						
Pu-239		4	N	Y	Y	5.100E+001	
		5.100E+001					
Pu-239	1041		N	Y	Y	9.800E-001	
	9.800E-001						
Pu-239	4		N	Y	Y	1.400E-004	
	1.400E-004						
Pu-239	2		N	Y	Y	3.100E-006	
	3.100E-006						
Ra-226	1		N	Y	N	5.000E-003	
	5.000E-003						
Ra-226		56	N	Y	N	1.300E+002	
		1.300E+002					

Site (Data) : LvivSE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Ra-226	2		N	Y	Y	7.700E-004	
	7.700E-004						
Th-232	1		N	Y	Y	2.500E-005	
	2.500E-005						

Multiple Nuclides SRS in Storage

Nuclide	Activity of Sources (GBq)	cond	uncond	cat	Decay Date
Sr-90	0.000E+000	N	Y	Y	
Rh-106	0.000E+000	N	Y	Y	
Ru-106	0.000E+000	N	Y	Y	
Y-90	0.000E+000	N	Y	Y	
Y-90	2.200E-001	N	Y	Y	
Sr-90	2.200E-001	N	Y	Y	

Site (Structure) : Odessa SE

Country: UKRAINE

Reporting Year: 2011

Full Name: Odessa State Interregional Special Enterprise

Location: 10, Volodymyra str., Odessa, Ukraine, 65031

Description:

Official Website:

License Holder(s): Odessa State Interregional Special Enterprise
 Director: Bahchevan Dmytry
 Phone: +38 048 732 43 00
 Fax: +38 048 721 67 86

Waste management facilities that are located at this site:

Facility:	LRW																					
Description:	Casks for liquid radioactive waste																					
<p>Storage part of facility LRW</p> <p>The following shows storage 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>Mid-Active</td> <td>Yes</td> <td>No</td> </tr> <tr> <td>Low-Active</td> <td>No</td> <td>No</td> </tr> <tr> <td>High-Active</td> <td>No</td> <td>No</td> </tr> </tbody> </table>		Waste Class	Actual	Planned	Mid-Active	Yes	No	Low-Active	No	No	High-Active	No	No									
Waste Class	Actual	Planned																				
Mid-Active	Yes	No																				
Low-Active	No	No																				
High-Active	No	No																				
List SRS?	No																					
List UMMT?	No																					
Capacity:	Each cask is 200m3 Total volium is 400m3																					
<p>Types of Storage Units</p> <table border="1"> <thead> <tr> <th>Storage Unit Name</th> <th>Type Name</th> <th>Year Opened</th> <th>Closed?</th> <th>Full?</th> <th>Modular?</th> <th>Contains SRS?</th> </tr> </thead> <tbody> <tr> <td>Cask 1</td> <td>cask</td> <td>1963</td> <td>No</td> <td>No</td> <td>No</td> <td>No</td> </tr> <tr> <td>Cask 2</td> <td>cask</td> <td>1963</td> <td>No</td> <td>No</td> <td>No</td> <td>No</td> </tr> </tbody> </table>		Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?	Cask 1	cask	1963	No	No	No	No	Cask 2	cask	1963	No	No	No	No
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?																
Cask 1	cask	1963	No	No	No	No																
Cask 2	cask	1963	No	No	No	No																

Site (Structure) : Odessa SE

Country: UKRAINE

Reporting Year: 2011

Facility:	Modul 1
Description:	Concrete modules 1-11 for radioactive waste disposal

Disposal part of facility Modul 1

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	Yes		
Capacity existing (m3):	583	Capacity planned (m3):	583

Depth (m):	4	Host medium:	sedimentary rock (plastic clay)
------------	---	--------------	---------------------------------

Phase Name	Start Year	End Year	Estimate
operation	1962		False
EVENT: operating license granted	1995	1998	False
EVENT: operating license granted	1998	2003	False
EVENT: operating license granted	2003	2006	False
EVENT: operating license granted	2006	2009	False
EVENT: operating license granted	2009	2012	False

Site (Structure) : Odessa SE

Country: UKRAINE

Reporting Year: 2011

Facility:	Modul 14
Description:	Containers for solid radioactive waste

Storage part of facility Modul 14

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Capacity:	25m3
------------------	------

Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Module 14	container (marine)	2001	No	No	No	No

Site (Structure) : Odessa SE

Country: UKRAINE

Reporting Year: 2011

Facility:	Place 1
Description:	It's a small facility with radioactive sources

Storage part of facility Place 1

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	No	No
Low-Active	No	No
High-Active	Yes	No

List SRS?	No
List UMMT?	No

Capacity:	1m3
-----------	-----

Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Place 1	concrete pad	2010	No	No	No	Yes

Site (Structure) : Odessa SE

Country: UKRAINE

Reporting Year: 2011

Facility:	SRS 13
Description:	Modul for disposal spent radioactive sources

Disposal part of facility SRS 13

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	No	No
Low-Active	No	No
High-Active	No	No

List SRS?	Yes
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	No		
Capacity existing (m3):	1	Capacity planned (m3):	1

Depth (m):	6	Host medium:	sedimentary rock (plastic clay)
------------	---	--------------	------------------------------------

Phase Name	Start Year	End Year	Estimate
operation	1962	0	False
EVENT: operating license granted	1995	1998	False
EVENT: operating license granted	1998	2003	False
EVENT: operating license granted	2003	2006	False
EVENT: operating license granted	2006	2009	False
EVENT: operating license granted	2009	2012	False
EVENT: operation suspended	1991	0	False

Site (Structure) : Odessa SE

Country: UKRAINE

Reporting Year: 2011

Facility:	SRS 2
Description:	Modul for disposal spent radioactive sources

Disposal part of facility SRS 2

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	No	No
Low-Active	No	No
High-Active	No	No

List SRS?	Yes
List UMMT?	No

Type:	engineered surface		
Facility is modular?	No		
Capacity existing (m3):	1	Capacity planned (m3):	1

Depth (m):	6	Host medium:	sedimentary rock (plastic clay)
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Phase Name	Start Year	End Year	Estimate
operation	1962	0	False
EVENT: operating license granted	1995	1998	False
EVENT: operating license granted	1998	2003	False
EVENT: operating license granted	2003	2006	False
EVENT: operating license granted	2006	2009	False
EVENT: operating license granted	2009	2012	False
EVENT: operation suspended	2010	2012	False

Site (Structure) : Odessa SE

Country: UKRAINE

Reporting Year: 2011

Facility:	Stor 15					
Description:	Container (marine), 9 Container (marine) there are 13 of thermal-electrical generators "RITEG-1"					
Storage part of facility Stor 15						
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
Mid-Active	No	No				
Low-Active	No	No				
High-Active	Yes	No				
List SRS?	Yes					
List UMMT?	No					
Capacity:	48m3					
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Sror 15	container (marine)	2004	No	Yes	No	Yes

Site (Data) : Odessa SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Site Name: Odessa SE

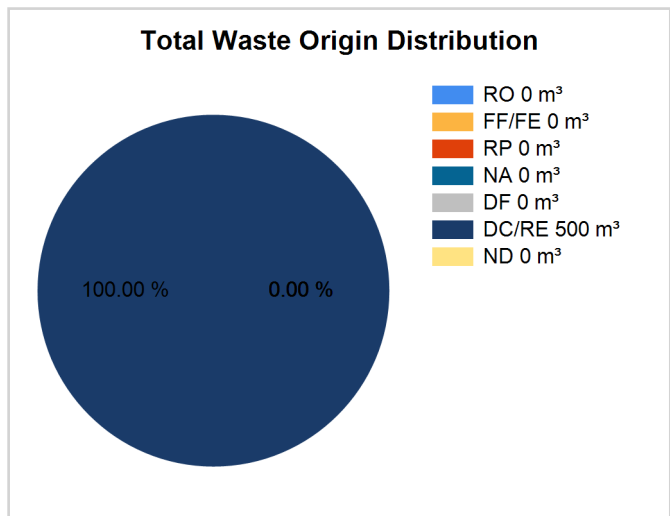
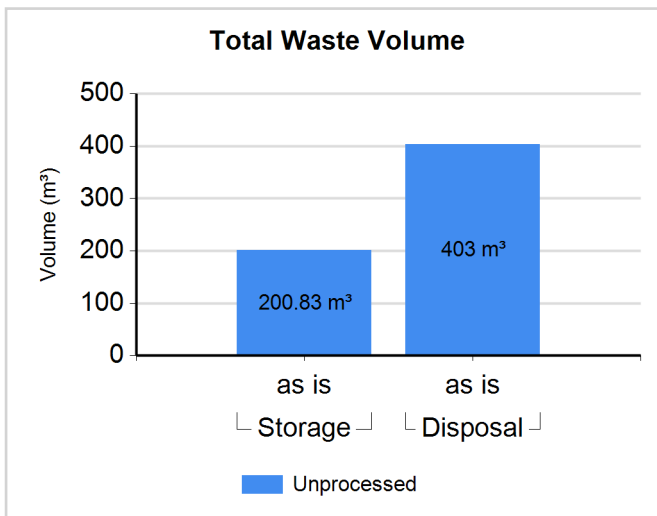
Full Name: Odessa State Interregional Special Enterprise

Inventory Reporting Date: December 2011

Waste Matrix Used: Ukraine

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: Mid-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Mid-Active	Storage / LRW	N	N	137.500	137.500	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Storage / Modul 14	N	N	14.330	14.330	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Disposal / Modul 1	N	N	403.000	403.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Comment # 6813: The additional characteristics of the waste

Unprocessed: liquid (aqueous)

Waste Class: High-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
High-Active	Storage / Place 1	N	N	1.000	1.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00
High-Active	Storage / Stor 15	N	N	48.000	48.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Spent Sources <=30 years in Storage

No data available.

Spent Sources <=30 years in Disposition

Number of Sources/Total Activity of Sources (GBq)

Site (Data) : Odessa SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Nuclide	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	c o n d	u n c o n	c a t	Total Activity for all Groups (GBq)	Decay Date
	num/activity	num/activity	num/activity					
Co-60		539		N	Y	Y	9.200E+003	
		9.200E+003						
Cs-137			974	N	Y	Y	1.200E+005	
			1.200E+005					
Cs-137		30		N	Y	Y	7.500E+002	
		7.500E+002						
Cs-137		10		N	Y	Y	3.800E+002	
		3.800E+002						
H-3		9		N	Y	Y	3.100E+004	
		3.100E+004						
Ir-192		48		N	Y	Y	5.300E+003	
		5.300E+003						
Ir-192		140		N	Y	Y	2.300E+003	
		2.300E+003						
Kr-85		8		N	Y	Y	2.100E+004	
		2.100E+004						
P-32	317			N	Y	Y	2.000E-001	
	2.000E-001							
Pm-147	2			N	Y	Y	0.000E+000	
Po-210		35		N	Y	Y	2.000E+003	
		2.000E+003						
Ru-106	2			N	Y	Y	0.000E+000	
Sr-90		1659		N	Y	Y	1.100E+002	
		1.100E+002						

Site (Data) : Odessa SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Sr-90	1			N	Y	Y	0.000E+000	
TI-204	9			N	Y	Y	3.800E+000	
	3.800E+000							

Spent Sources > 30 years in Storage

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	5		N	Y	Y	0.000E+000	
	0.000E+000						
K-40	1		N	Y	Y	0.000E+000	
	0.000E+000						
Pu-238	49		N	Y	Y	8.800E-001	
	8.800E-001						
Pu-239		683	N	Y	Y	1.000E+001	
		1.000E+001					
Pu-239	556		N	Y	Y	0.000E+000	
	0.000E+000						
Ra-226	3		N	Y	Y	0.000E+000	
	0.000E+000						
U-233	1		N	Y	Y	0.000E+000	
	0.000E+000						
U-238	3		N	Y	Y	0.000E+000	
	0.000E+000						

Site (Data) : Odessa SE

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

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	43		N	Y	Y	0.000E+000	
Cs-135		1004	N	Y	Y	1.180E+005	
		1.180E+005					
Ni-63	1		N	Y	Y	1.800E+000	
	1.800E+000						
Pu-238		61	N	Y	Y	2.240E+003	
		2.240E+003					
Pu-238		61	N	Y	Y	2.530E+003	
		2.530E+003					
Pu-238		10	N	Y	Y	2.920E+002	
		2.920E+002					
Pu-239		3361	N	Y	Y	1.600E+003	
		1.600E+003					
Ra-226		80	N	Y	Y	3.370E+002	
		3.370E+002					
U-238	1		N	Y	Y	1.000E-001	
	1.000E-001						

Multiple Nuclides SRS in Storage

No data available.

Site (Structure) : SSE CRME

Country: UKRAINE

Reporting Year: 2011

Full Name: State Specialized Enterprise "Centralized Radioactive Waste Management Enterprise"

Location: 52, Kirova str., Chornobyl, Ukraine, 07270

Description: In order to promote efficient implementation of the state policy for radwaste management, Ministry of Emergencies of Ukraine Ordinance No. 1086 of 9 December 2010 was issued to establish a unique national operating organization for radwaste management at the stage of long-term storage and disposal: State Specialized Enterprise "Centralized Radioactive Waste Management Enterprise" (SSE CRME). The SSE CRME is based on two enterprises, SSE Komplex and SSE Technocenter, that deal with the lifetime stages of radwaste disposal facilities in the exclusion zone. The SSE CRME is the operating organization (operator) for all life stages of radioactive waste disposal facilities.

Official Website:

License Holder(s): State Specialized Enterprise "Centralized Radioactive Waste Management Enterprise"
 Director: Valentyn Melnychenko
 Fax: +38 04493 5 17 08

Waste management facilities that are located at this site:

Facility:	PTLRW					
Description:	PTLRW is composed of trenches and clamps with radioactive waste. Total number of the revealed trenches is till 1000 units					
Storage part of facility PTLRW						
The following shows storage status for waste classes and SRS.						
Waste Class		Actual	Planned			
Mid-Active		Yes	No			
Low-Active		No	No			
High-Active		No	No			
List SRS?	No					
List UMMT?	No					
Capacity:	1 296 588 m3					
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
PTLRW	trench (unlined)	1986	No	Yes	No	No

Site (Structure) : SSE CRME

Country: UKRAINE

Reporting Year: 2011

Facility:	PZRW
Description:	Trenches for solid radioactive waste disposal - "Buryakivka"
Detailed Facility Description:	<p>PZRW it is RWDP – Radioactive Waste Disposal (Storage) Point.</p> <p>There are three radioactive waste disposal (storage) points: Buryakivka, Pidlisnyy and ChNPP Stage III RWDP.</p> <p>The Buriakivka disposal facilities represent specially engineered trenches.</p> <p>There is 635 918 m³ low-level and intermediate-level waste. That result from New Safe Confinement construction, ChNPP decommissioning and decontamination of the exclusion zone territory is disposed of in near-surface radwaste disposal facilities of the Buriakivka RWDP. Their main engineering barrier is a compacted clay layer 1 meter thick to confine radioactive elements from the environment. The Buriakivka RWDP, which was commissioned in 1987, has practically exhausted its capabilities. An international project for Buriakivka safety reassessment and reconstruction has started.</p> <p>The Pidlisnyy and ChNPP Stage III RWDP were created in the first years of the ChNPP accident.</p> <p>The Pidlisnyy RWDP – there is 3960m³ accidental the ChNPP high le</p>

Site (Structure) : SSE CRME

Country: UKRAINE

Reporting Year: 2011

Disposal part of facility **PZRW**

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	No	No
High-Active	Yes	No

List SRS?	No
List UMMT?	No

Type:	trench(es)		
Facility is modular?	No		
Capacity existing (m3):	660000	Capacity planned (m3):	690000

Depth (m):	4	Host medium:	sedimentary rock (plastic clay)
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Phase Name	Start Year	End Year	Estimate
operation	1987	0	False
EVENT: operating license granted	1996	1999	False
EVENT: operating license granted	1999	2003	False
EVENT: operating license granted	2003	2017	False

Comment **# 25546: the Pidlisnyy and ChNPP Stage III RWDP**

Now, preservation projects have been developed and agreed for the Pidlisnyy and ChNPP Stage III RWDP to prevent degradation of engineering barriers of these facilities and maintain their confining functions until a decision is made on further radwaste management of intermediate-long-lived and high-level waste stored in the facilities. These projects provide for additional barriers to prevent potential spread of radionuclides and improvement of monitoring systems.

Site (Data) : SSE CRME

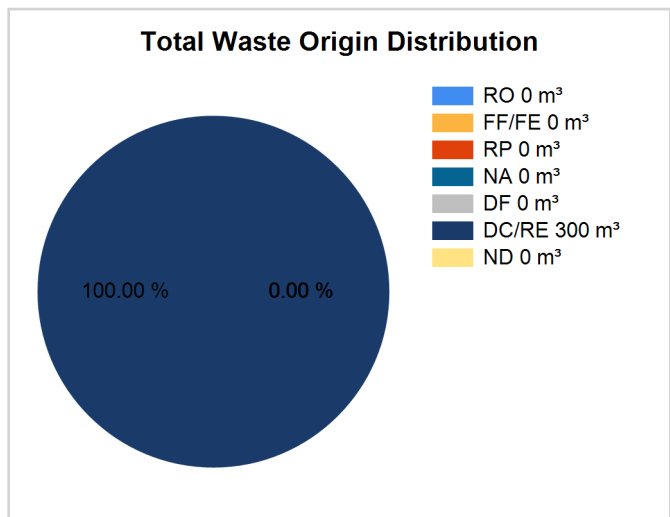
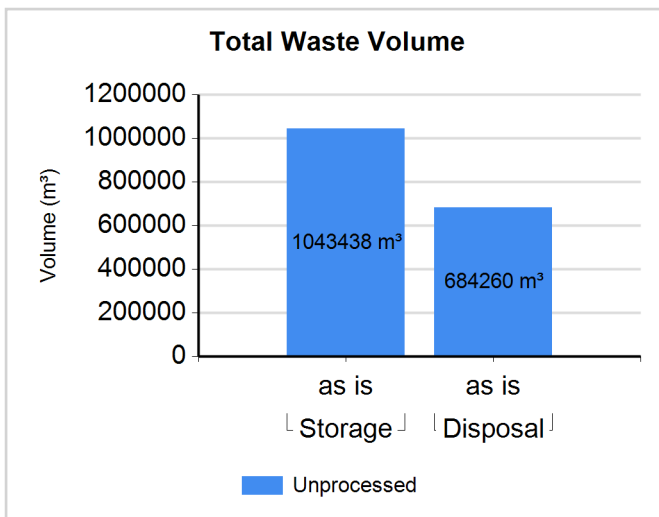
Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Site Name: SSE CRME**Full Name:** State Specialized Enterprise "Centralized Radioactive Waste Management Enterprise"**Inventory Reporting Date:** December 2011**Waste Matrix Used:** Ukraine**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: Mid-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
Mid-Active	Storage / PTLRW	N	N	1043438.00	1043438.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Mid-Active	Disposal / PZRW	N	N	680300.000	680300.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Comment # 6818: The additional characteristics of the waste

Unprocessed: flammable, resin, sludge, solid (non-dispersible)

Waste Class: High-Active

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
High-Active	Disposal	N	N	3960.000	3960.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Site (Structure) : SSE CRME

Country: UKRAINE

Reporting Year: 2011

Full Name: State Specialized Enterprise "Centralized Radioactive Waste Management Enterprise"

Location: 52, Kirova str., Chornobyl, Ukraine, 07270

Description: In order to promote efficient implementation of the state policy for radwaste management, Ministry of Emergencies of Ukraine Ordinance No. 1086 of 9 December 2010 was issued to establish a unique national operating organization for radwaste management at the stage of long-term storage and disposal: State Specialized Enterprise "Centralized Radioactive Waste Management Enterprise" (SSE CRME). The SSE CRME is based on two enterprises, SSE Komplex and SSE Technocenter, that deal with the lifetime stages of radwaste disposal facilities in the exclusion zone.

Official Website:

License Holder(s): State Specialized Enterprise "Centralized Radioactive Waste Management Enterprise"
 Director: Valentyn Melnychenko
 Fax: +38 04493 5 17 08

Waste management facilities that are located at this site:

Facility:	ENSDF
Description:	Engineered Near-Surface Disposal Facility for Solid Radioactive Waste on Vector Complex Stage I. ENSDF is for ChNPP radwaste disposal
Waste Packages:	- cemented liquid radwaste in 200-L steel drums (KT-0.2); - reinforced concrete containers KTZ-3.0 with briquettes of solid radwaste resulting from compaction and incineration;
Financing:	The budget of Ukraine

Site (Structure) : SSE CRME

Country: UKRAINE

Reporting Year: 2011

Disposal part of facility ENSDF

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	Yes	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	Yes		
Capacity existing (m3):	0	Capacity planned (m3):	50210

Depth (m):	0	Host medium:	sedimentary rock (plastic clay)
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Phase Name	Start Year	End Year	Estimate
operation	2009	2014	False

Site (Structure) : SSE CRME

Country: UKRAINE

Reporting Year: 2011

Facility:	SRW-1
Description:	SRW-1- Near-Surface Radioactive Waste Disposal Facility on Vector Complex Stage I
Detailed Facility Description:	Near-surface disposal facilities for Chernobyl-origin radwaste. SRW-1 it is for disposal of radwaste in ferroconcrete containers.
Waste Packages:	ferroconcrete containers
Financing:	The budget of Ukraine

Disposal part of facility SRW-1

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	No	Yes
Low-Active	No	Yes
High-Active	No	No

List SRS?	No
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	No		
Capacity existing (m3):	0	Capacity planned (m3):	11203

Depth (m):	0	Host medium:	sedimentary rock (plastic clay)
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Phase Name	Start Year	End Year	Estimate
construction	2003	2017	False

Site (Structure) : SSE CRME

Country: UKRAINE

Reporting Year: 2011

Facility:	SRW-2
Description:	Near-Surface Radioactive Waste Disposal Facilities on Vector Complex Stage I
Detailed Facility Description:	Near-surface disposal facility for Chernobyl-origin radwaste. SRW-2 is for disposal of radwaste in bulk, module-type
Financing:	The budget of Ukraine

Disposal part of facility SRW-2

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
Mid-Active	Yes	No
Low-Active	Yes	No
High-Active	No	No

List SRS?	No
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	Yes		
Capacity existing (m3):	0	Capacity planned (m3):	9210

Depth (m):	0	Host medium:	sedimentary rock (plastic clay)
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Phase Name	Start Year	End Year	Estimate
construction	2003	2017	False

Site (Data) : SSE CRME

Stock of waste as at December 2011

Country: UKRAINE

Reporting Year: 2011

Site Name: SSE CRME

Full Name: State Specialized Enterprise "Centralized Radioactive Waste Management Enterprise"

Inventory Reporting Date: December 2011

Waste Matrix Used: Ukraine

Regulators

Country: UKRAINE

Reporting Year: 2011

Name:	SNRIU
Full Name:	the State Nuclear Regulatory Inspectorate of Ukraine
Divison:	Unit on Radioactive Waste Management Safety
City or Town:	Kiev
Main Website:	

Comment **# 6780: Wastes that are regulated by the Regulator**

Matrix Ukraine - High-Active, Low-Active, Mid-Active

Comment **# 24583: renamed of Regulatory Body**

The State Nuclear Regulatory Committee of Ukraine was established according to Presidential Decree No. 1303 of 5 December 2000. Since 2006 there have been eight territorial bodies in the SNRIU structure. Following the reform in the system of central executive authorities according to Presidential Decree No. 1085 of 9 December 2010 "On Optimizing the System of Central Executive Authorities", the State Nuclear Regulatory Committee of Ukraine with its territorial bodies was renamed the State Nuclear Regulatory Inspectorate of Ukraine (SNRIU). Competence and functions of SNRIU are the same as defined by Presidential Decree No. 1303 of 5 December 2000 "On State Regulation of Nuclear and Radiation Safety" and additional functions are added.

Regulations / Laws

Country: UKRAINE

Reporting Year: 2011

Name:	Law 1		
Title or Name:	About Ratification of the Joint Convention on the Safety of Spent Fuel Management and the Safety of Radioactive Waste Management		
Reference Number:	1688-III		
Date Promulgated or Proclaimed:	4/20/2000	Law	

Comment **# 6781: Wastes that are regulated by the Law**

Matrix Ukraine - High-Active, Low-Active, Mid-Active

Name:	Law 2		
Title or Name:	On Use of Nuclear Energy and Radiation Safety		
Reference Number:			
Date Promulgated or Proclaimed:	2/8/1995	Law	

Comment **# 6782: Wastes that are regulated by the Law**

Matrix Ukraine - High-Active, Low-Active, Mid-Active

Name:	Law 3		
Title or Name:	On Radioactive Waste Management		
Reference Number:			
Date Promulgated or Proclaimed:	4/30/1995	Law	

Comment **# 6783: Wastes that are regulated by the Law**

Matrix Ukraine - High-Active, Low-Active, Mid-Active

Name:	Law 4		
Title or Name:	On Permissive Activities in the Nuclear Energy Field		
Reference Number:	1370-XIV		
Date Promulgated or Proclaimed:	1/11/2000	Law	

Comment **# 6784: Wastes that are regulated by the Law**

Matrix Ukraine - High-Active, Low-Active, Mid-Active

Regulations / Laws

Country: UKRAINE

Reporting Year: 2011

Name:	Law 5		
Title or Name:	On Physical Protection of Nuclear Materials, Radioactive Wastes and Other Radiation Sources		
Reference Number:	2064-III		
Date Promulgated or Proclaimed:	10/19/2000	Law	

Comment **# 6785: Wastes that are regulated by the Law**

Matrix Ukraine - High-Active, Low-Active, Mid-Active

Name:	Law 6		
Title or Name:	On Protection of Population from Radiation Effects		
Reference Number:	15/98-BP		
Date Promulgated or Proclaimed:	1/14/1998	Law	

Comment **# 6786: Wastes that are regulated by the Law**

Matrix Ukraine - High-Active, Low-Active, Mid-Active

Name:	Reg 1		
Title or Name:	Requirement to the Structure and Content of Safety Analysis Report of the Radioactive Waste Treatment Facility		
Reference Number:	306.3.02/3.043-2001		
Date Promulgated or Proclaimed:	1/26/2001	Regulation	

Comment **# 6787: Wastes that are regulated by the Regulation**

Matrix Ukraine - High-Active, Low-Active, Mid-Active

Name:	Reg 2		
Title or Name:	Requirements to the Structure and Content of Safety Analysis Report of the Near Surface Disposal Facilities of Radioactive Waste		
Reference Number:	NP 306.3.02/3.038-2000		
Date Promulgated or Proclaimed:	10/2/2000	Regulation	

Comment **# 6788: Wastes that are regulated by the Regulation**

Matrix Ukraine - Low-Active, Mid-Active

Regulations / Laws

Country: UKRAINE

Reporting Year: 2011

Name:	Reg 3		
Title or Name:	Rules and Procedure to Release Radioactive Waste and By-product Radioactive Materials from Regulatory Control		
Reference Number:			
Date Promulgated or Proclaimed:	12/10/1997	Regulation	

Comment **# 6789: Wastes that are regulated by the Regulation**
 Matrix Ukraine - Low-Active, Mid-Active

Name:	Reg 4		
Title or Name:	Procedure of the State Inventory of Radioactive Waste		
Reference Number:	306.5.04/2.059-2002		
Date Promulgated or Proclaimed:	2/11/2003	Regulation	

Comment **# 6790: Wastes that are regulated by the Regulation**
 Matrix Ukraine - High-Active, Low-Active, Mid-Active

Name:	Reg 5		
Title or Name:	Norms of the Radiation Protection of Ukraine. Supplement: Radiation Protection from Sources of the Potential Irradiation		
Reference Number:			
Date Promulgated or Proclaimed:	6/12/2000	Regulation	

Comment **# 6791: Wastes that are regulated by the Regulation**
 Matrix Ukraine - High-Active, Low-Active, Mid-Active

Name:	Reg 6		
Title or Name:	Sanitary Rules of Radioactive Waste Management		
Reference Number:			
Date Promulgated or Proclaimed:	10/1/1985	Regulation	

Comment **# 6792: Wastes that are regulated by the Regulation**
 Matrix Ukraine - High-Active, Low-Active, Mid-Active

Regulations / Laws

Country: UKRAINE

Reporting Year: 2011

Name:	Reg 7	
Title or Name:	Safety Conditions and Requirements (Licensing Conditions) on Activities Associated with Radioactive Waste Processing, Storage and Disposal	
Reference Number:	NP 306.5.04/2.060-2002	
Date Promulgated or Proclaimed:	11/6/2002	Regulation

Name:	Reg 8	
Title or Name:	Provisions on the List and Requirements on the Format and Content of Documents Submitted by the Operating Organisation to Obtain Licences for Activities at Specific Stages of Radioactive Waste Disposal Facility Lifetime	
Reference Number:	NP 306.2.02/3.037-2000	
Date Promulgated or Proclaimed:	8/15/2000	Regulation

Name:	Reg 9	
Title or Name:	Safety Conditions and Requirements (Licensing Conditions) on Activities Associated with Radioactive Waste Processing, Storage and Disposal	
Reference Number:	np 306.5.04/2.060-2002	
Date Promulgated or Proclaimed:	11/6/2000	Regulation

Name:	Reg 10	
Title or Name:	Geological Disposal of Radioactive Waste Common Safety Provisions	
Reference Number:		
Date Promulgated or Proclaimed:	5/29/2007	Regulation

Name:	Reg 11	
Title or Name:	Requirements to the Structure and Content of the Safety Analysis Report of Radioactive Waste Storages	
Reference Number:	її 306.4.142-2008	
Date Promulgated or Proclaimed:	2/19/2008	Regulation

Name:	Law 7	
Title or Name:	On National Environmental Program on Radioactive Waste Management	
Reference Number:		
Date Promulgated or Proclaimed:	9/17/2008	Law

Regulations / Laws

Country: UKRAINE

Reporting Year: 2011

Name:	Reg 12	
Title or Name:	The Rules of Nuclear and Radiation Safety for Transport of Radioactive Materials	
Reference Number:	ІІ 306.6.124-2006	
Date Promulgated or Proclaimed:	9/19/2006	Regulation

Name:	Law	
Title or Name:	On Amendment of the Law of Ukraine "On Authorizing Activity in the Field of Nuclear Energy	
Reference Number:		
Date Promulgated or Proclaimed:	2/11/2010	Law

Name:	Law	
Title or Name:	Tax Code of Ukraine	
Reference Number:		
Date Promulgated or Proclaimed:	12/2/2010	Law

Name:	Resolution	
Title or Name:	On Amendment of Cabinet Resolution No. 813 of 2 June 2003 "On Approval of the Procedure for Interaction of Executive Authorities and Legal Entities in the Area of Nuclear Energy in Case of Detection of Radioactive Materials in Illicit Trafficking";	
Reference Number:	No. 414 of 9 June 2010	
Date Promulgated or Proclaimed:	6/6/2010	Regulation

Name:	Reg	
Title or Name:	Procedure for Clearance and Exemption of Radioactive Materials from Regulatory Control within Practices (Ordinance No. 84 of 1 July 2010)	
Reference Number:	No. 84	
Date Promulgated or Proclaimed:	7/1/2010	Regulation

Name:	Reg	
Title or Name:	Amendment of the Procedure for State Inventory of Radioactive Waste (Ordinance No. 142 of 14 October 2010).	
Reference Number:	No. 142	
Date Promulgated or Proclaimed:	10/14/2010	Regulation

Regulations / Laws

Country: UKRAINE

Reporting Year: 2011

Name:	Reg		
Title or Name:	Requirements for the Facility-Level Plan of Interaction in Case of Sabotage (Ordinance No. 163 of 22 November 2010)		
Reference Number:	No. 163		
Date Promulgated or Proclaimed:	11/22/2010	Regulation	

Name:	Reg		
Title or Name:	Requirements for Using Security in the Physical Protection System for Nuclear Facilities, Radioactive Waste Management Facilities, Other Radiation Sources and Radioactive Material (Ordinance No. 164 of 23 November 2010)		
Reference Number:	No. 164		
Date Promulgated or Proclaimed:	11/23/2010	Regulation	

Name:	Reg		
Title or Name:	Procedure for Vulnerability Assessment of Nuclear Facilities and Nuclear Material (Ordinance No. 169 of 30 November 2010).		
Reference Number:	No. 169		
Date Promulgated or Proclaimed:	11/30/2010	Regulation	

Country: UKRAINE

Reporting Year: 2011

Policies

Country: UKRAINE

Reporting Year: 2011

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	Partially
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	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

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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	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)?	No

Policies

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Disposal Facilities

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

Policies

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Reporting Year: 2011

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)	No
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?	No
Q82	In your Country are there any mobile waste processing facilities?	Yes
Foreign		(Yes;No)
Q121	Has your country sent any wastes or spent fuel to another country for processing (reprocessing for fuel)?	Yes
Q122	Will some or all of the product(s) of processing/reprocessing be returned to your country?	Yes
Q123	Currently, are any of your country's wastes (processed or unprocessed, including the products of reprocessing) or spent fuel being stored in another country?	Yes
Q124	Has your country accepted any wastes or spent fuel from another country for processing (reprocessing for fuel)?	No

Policies

Country: UKRAINE

Reporting Year: 2011

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)?	Yes
Q88	If the answer was yes, are any registries used only for disused/spent SRS?	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?	
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)?	Yes
Spent Fuel		(Yes;No)
Q105	Does your Country have laws or Regulations restricting either the import or export of spent fuel?	No

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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? Yes - Some

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? Yes - Some

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? No

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

Timeframe**(Yes - All;Yes - Some;No)**

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

Radionuclide Inventory by Waste Class

Country: UKRAINE

Reporting Year: 2011

No data available.

Future Outlook

Country: UKRAINE

Reporting Year: 2011

Data not available.

Future Outlook

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Reporting Year: 2011

Data not available.

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