



Country Waste Profile Report for KOREA, REPUBLIC OF Reporting Year: 2012

*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: KOREA, REPUBLIC OF

Reporting Year: 2012

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: **KOR**

Description: The Enforcement Decree of the AEA defines high-level radioactive waste (HLW) as radioactive waste with radioactivity concentration and heat generation over the limit value specified by the MEST. In strict, others than HLW belong to the LILW in accordance with the AEA.

Waste Class Name	Distribution %			
	VLLW	LLW	ILW	HLW
HLW	0.0	0.0	0.0	100.0
LILW	0.0	90.0	10.0	0.0

Comment **# 26575: Waste Matrix KOR**

The Enforcement Decree of the AEA defines high-level radioactive waste (HLW) as radioactive waste with radioactivity concentration and heat generation over the limit value specified by the MEST. In strict, others than HLW belong to the LILW in accordance with the AEA. The limiting values on radioactivity and heat generation rate are specified in the MEST Notice No. 2008-31 (Standards on Radiation Protection, etc.) as follows:

- radioactivity : > 4,000 Bq/g for alpha-emitting radionuclide having a half life longer than 20 years
- heat generation rate : > 2 kW/m³

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

This country uses the IAEA standard definition:

	as-generated waste	processed for handling	processed for storage	processed for disposal
Inprocessed means:	x			
Processed means:		x	x	x

Groups Overview

Country: KOREA, REPUBLIC OF

Reporting Year: 2012

Reporting Group:	Disposal			
Inventory Reporting Date:	December 2012			
Waste Matrix Used:	KOR			
Description:	The first stage of the LILW disposal facility in Gyeongju is scheduled to be constructed by KRMC at the end of December 2012. First of all, the radwaste receipt / storage building in the site of the disposal facilities is in operation to receive the radioactive waste from NPP's which are required to secure additional storage capacity.			
Site Name	Facility Name	Facilities Defined		
Gyeongju	RSbuilding		storage	

Reporting Group:	KAERI			
Inventory Reporting Date:	December 2012			
Waste Matrix Used:	KOR			
Description:	Korea Atomic Energy Research Institute - national nuclear R&D research institution			
Site Name	Facility Name	Facilities Defined		
Daedeok	#1 storage		storage	
	#2 storage		storage	
	Incinerate	processing	storage	
Seoul	KRR-1&2		storage	

Reporting Group:	KNF			
Inventory Reporting Date:	December 2012			
Waste Matrix Used:	KOR			
Description:	Korea Nuclear Fuel Co., Ltd.			
Site Name	Facility Name	Facilities Defined		
Daedeok	#1 storage		storage	
	#2 storage		storage	

Comment

26577: Reporting Group KNF

Two nuclear fuel fabrication plants are operated by KNF. The first plant started to produce PWR fuels in 1989 and the second plant for PHWR/PWR fuels started its commercial operation in 1998.

Groups Overview

Country: KOREA, REPUBLIC OF

Reporting Year: 2012

Reporting Group:	NPP_KHNP
Inventory Reporting Date:	December 2012
Waste Matrix Used:	KOR
Description:	Korea Hydro & Nuclear Power Co., Ltd.(KHNP) is a sole nuclear power generating company in Korea.

Site Name	Facility Name	Facilities Defined		
Kori	#1 storage		storage	
	#2 storage		storage	
	#3 storage		storage	
	#4 storage		storage	
	Others		storage	
Shin-Kori	#1 storage		storage	
	Others		storage	
Ulchin	#1 storage		storage	
	#2 storage		storage	
	Others		storage	
Wolsong	#1 storage		storage	
	Others		storage	
Yonggwang	#1 storage		storage	
	#2 storage		storage	
	Others		storage	

Reporting Group:	RI_KRMC
Inventory Reporting Date:	December 2012
Waste Matrix Used:	KOR
Description:	This group report the data related with radioisotope waste management. KRMC : Korea Radoactive Waste Management Corporation(launched on January 1, 2009)

Site Name	Facility Name	Facilities Defined		
Daedeok	RI waste	processing	storage	

Comment **# 26579:**

Korea Radoactive Waste Management Corporation(KRMC), an independent and professional management organization, officailly launched on January 1, 2009 and will conduct the storage, treatment, and disposal of radioactivewaste. In the past, all of which had been performed by the KHNP (including the NETEC).

Regulators

Country: KOREA, REPUBLIC OF

Reporting Year: 2012

Name:	NSSC
Full Name:	Nuclear Safety and Security Commission
Divison:	
City or Town:	Sejong-no, Jongno-gu, Seoul
Main Website:	

Name:	KINS
Full Name:	Korea Institute of Nuclear Safety
Divison:	Radiation & Waste Safety Division
City or Town:	Yuseong-gu, Daejeon
Main Website:	

Comment

26574: Regulator KINS

KINS was established functioning as an expert organization, according to the "Korea Institute of Nuclear Safety Act" and conducts matters on nuclear safety regulation as entrusted by the MEST in accordance with the Atomic Energy Act.

Regulations / Laws

Country: KOREA, REPUBLIC OF

Reporting Year: 2012

Name:	NSA		
Title or Name:	Nuclear Safety Act		
Reference Number:			
Date Promulgated or Proclaimed:	7/25/2011	Law	

Name:	2012-54		
Title or Name:	Quality Assurance Criteria for Radioactive Waste Management Facilities		
Reference Number:	NSSC Notice No.2012-54		
Date Promulgated or Proclaimed:	4/18/2008	Regulation	

Name:	2012-61		
Title or Name:	Regulation on Inspection of Manufacture and Use of Radioactive Material Transport Containers		
Reference Number:	NSSC Notice No.2012-61		
Date Promulgated or Proclaimed:	4/18/2008	Regulation	

Name:	2012-49		
Title or Name:	Regulation on the Packaging and Transport of Radioactive Materials, etc.		
Reference Number:	NSSC Notice No.2012-49		
Date Promulgated or Proclaimed:	4/18/2008	Regulation	

Name:	2012-59		
Title or Name:	Regulation on the Clearance Level of Radioactive Waste		
Reference Number:	NSSC Notice No.2012-59		
Date Promulgated or Proclaimed:	4/18/2008	Regulation	

Name:	2012-60		
Title or Name:	Incineration Criteria of Low and Intermediate level Radioactive Waste		
Reference Number:	NSSC Notice No.2012-60		
Date Promulgated or Proclaimed:	4/18/2008	Regulation	

Regulations / Laws

Country: KOREA, REPUBLIC OF

Reporting Year: 2012

Name:	2012-58	
Title or Name:	Acceptance Criteria for Spent Fuel	
Reference Number:	NSSC Notice No.2012-58	
Date Promulgated or Proclaimed:	4/18/2008	Regulation

Name:	2012-29	
Title or Name:	Standards on Radiation Protection, etc.	
Reference Number:	NSSC Notice No.2012-29	
Date Promulgated or Proclaimed:	4/18/2008	Regulation

Name:	2012-51	
Title or Name:	Siting Criteria for Spent Fuel Interim Storage Facilities	
Reference Number:	NSSC Notice No.2012-51	
Date Promulgated or Proclaimed:	4/18/2008	Regulation

Name:	2012-05	
Title or Name:	Regulation on the Environmental Radiation Survey and Impact Analysis in the Vicinity of Nuclear Facilities	
Reference Number:	NSSC Notice No.2012-05	
Date Promulgated or Proclaimed:	4/18/2008	Regulation

Name:	2012-52	
Title or Name:	Criteria for Structure and Equipment of Low and Intermediate level Radioactive Waste Repository	
Reference Number:	NSSC Notice No.2012-52	
Date Promulgated or Proclaimed:	4/18/2008	Regulation

Name:	2012-57	
Title or Name:	Standard Format and Contents of Site Characteristics Report for Spent Fuel Interim Storage	
Reference Number:	NSSC Notice No.2012-57	
Date Promulgated or Proclaimed:	4/18/2008	Regulation

Regulations / Laws

Country: KOREA, REPUBLIC OF

Reporting Year: 2012

Name:	2012-62	
Title or Name:	Criteria for Structure and Equipment of Low and Intermediate level Radioactive Waste Treatment System	
Reference Number:	NSSC Notice No.2012-62	
Date Promulgated or Proclaimed:	4/18/2008	Regulation

Name:	2012-63	
Title or Name:	Technical Requirement for the Operation and Control of Low and Intermediate level Radioactive Waste Repository	
Reference Number:	NSSC Notice No.2012-63	
Date Promulgated or Proclaimed:	4/18/2008	Regulation

Name:	2012-64	
Title or Name:	Standard Format and Contents of Safety Analysis Report for Low and Intermediate level Radioactive Waste Repository	
Reference Number:	NSSC Notice No.2012-64	
Date Promulgated or Proclaimed:	4/18/2008	Regulation

Name:	2012-65	
Title or Name:	Regulation on Inspection of Radioactive Waste Disposal	
Reference Number:	NSSC Notice No.2012-65	
Date Promulgated or Proclaimed:	4/18/2008	Regulation

Name:	2012-56	
Title or Name:	Standard Format and Contents of Site Characteristics Report for Low and Intermediate level Radioactive Waste Repository	
Reference Number:	NSSC Notice No.2012-56	
Date Promulgated or Proclaimed:	4/18/2008	Regulation

Name:	2012-50	
Title or Name:	Siting criteria for Low and Intermediate level Radioactive Waste Repository	
Reference Number:	NSSC Notice No.2012-50	
Date Promulgated or Proclaimed:	4/18/2008	Regulation

Regulations / Laws

Country: KOREA, REPUBLIC OF

Reporting Year: 2012

Name:	2012-55		
Title or Name:	Radiological Protection Criteria for Long-term Safety on Low and Intermediate level Radioactive Waste Disposal		
Reference Number:	NSSC Notice No.2012-55		
Date Promulgated or Proclaimed:	4/18/2008	Regulation	

Name:	2012-53		
Title or Name:	Acceptance Criteria for Low and Intermediate level Radioactive Waste		
Reference Number:	NSSC Notice No.2012-53		
Date Promulgated or Proclaimed:	4/18/2008	Regulation	

Name:	2012-04		
Title or Name:	Regulation on Preparation, etc. of Radiological Environmental Report of Nuclear Power Utilization Facilities		
Reference Number:	NSSC Notice No.2012-04		
Date Promulgated or Proclaimed:	4/18/2008	Regulation	

Milestones

Country: KOREA, REPUBLIC OF

Reporting Year: 2012

Start Year or Reference Year:	2008	End Year:	2014
Description of Milestone:			
Construction of the low and intermediate level radioactive waste disposal facility (1st stage)			
Start Year or Reference Year:	2007	End Year:	
Description of Milestone:			
Application for a permit to construct and operate low and intermediate level radioactive waste disposal facility			
Start Year or Reference Year:	2007	End Year:	2008
Description of Milestone:			
The licensing safety review of the low and intermediate level radioactive waste disposal facility			

Policies

Country: KOREA, REPUBLIC OF

Reporting Year: 2012

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

Radionuclide Inventory by Waste Class

Country: KOREA, REPUBLIC OF

Reporting Year: 2012

No data available.

Future Outlook

Country: KOREA, REPUBLIC OF

Reporting Year: 2012

Data not available.

Future Outlook

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Data not available.

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