



Country Waste Profile Report for PHILIPPINES Reporting Year: 2007

*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: PHILIPPINES

Reporting Year: 2007

Waste Class Matrix: **IAEA Def.**

This country does use the IAEA Scheme: Yes

Description: The Agency's standard matrix

Waste Class Name	Distribution %			
	VLLW	LLW	ILW	HLW
VLLW	100.0	0.0	0.0	0.0
LLW	0.0	100.0	0.0	0.0
ILW	0.0	0.0	100.0	0.0
HLW	0.0	0.0	0.0	100.0

Comment **# 142: waste matrix status**
currently under government approval to adopt IAEA classification

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

This country uses the following definitions:

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

Groups Overview

Country: PHILIPPINES

Reporting Year: 2007

Reporting Group:	PNRI		
Inventory Reporting Date:	December 2007		
Waste Matrix Used:	IAEA Def.		
Description:	Philippine Nuclear Research Institute		
Site Name	Facility Name	Facilities Defined	
RPS	CWM&TF	processing	storage

Site (Structure) : RPS

Country: PHILIPPINES

Reporting Year: 2007

Full Name: Radiation Protection Services

Location: Philippine Nuclear Research Institute
Diliman, Quezon City, Philippines

Description:

Official Website:

License Holder(s): not a licensed site, responsible organization is the Philippine Nuclear Research
Institute

Waste management facilities that are located at this site:

Site (Structure) : RPS

Country: PHILIPPINES

Reporting Year: 2007

Facility:	CWM&TF
Description:	Central Waste Management and Treatment Facility

Storage part of facility**CWM&TF**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	No	No
LLW	Yes	Yes
ILW	Yes	Yes
HLW	No	No

List SRS?	Yes
List UMMT?	No

Capacity:	
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Trench A	trench (lined)	1997	No	No	Yes	Yes
Trench B	trench (lined)	2005	No	No	Yes	Yes

Processing part of facility**CWM&TF**

The following shows processing status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	No	No
LLW	No	No
ILW	No	No
HLW	No	No

Type:	Treatment, Conditioning
Year opened:	1997

Site (Data) : RPS

Stock of waste as at December 2007

Country: PHILIPPINES

Reporting Year: 2007

Site Name: RPS

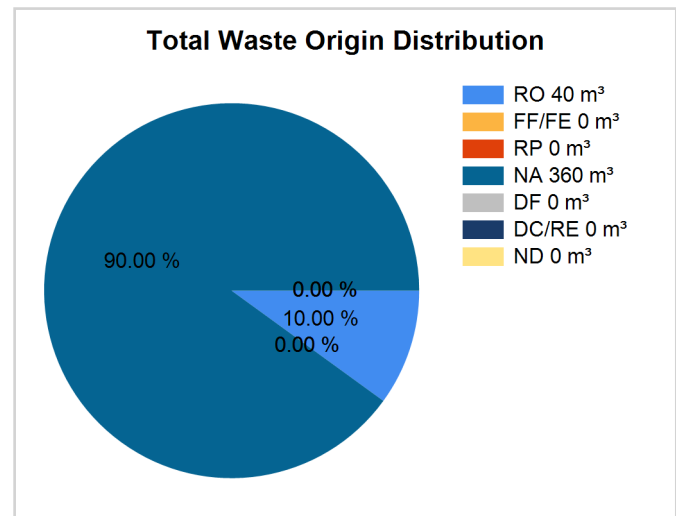
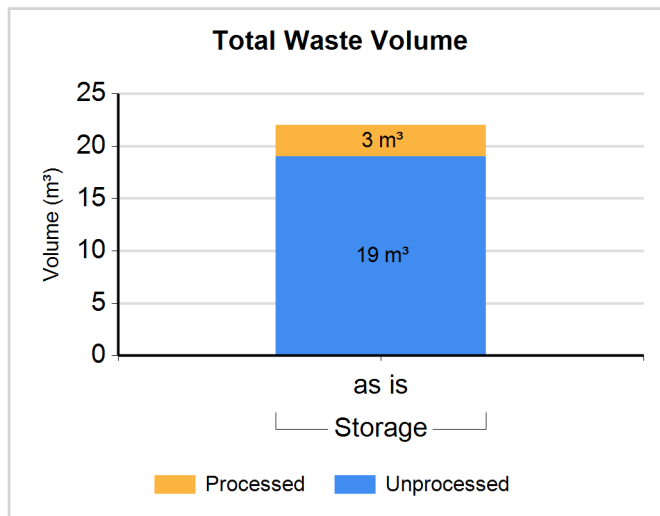
Full Name: Radiation Protection Services

Inventory Reporting Date: December 2007

Waste Matrix Used: IAEA Def.

Waste Inventory

Est=distribution is an estimate, Proc.=Is the waste processed (Yes/No)? RO=Reactor Operations, FF/FE=Fuel Fabrication/Fuel Enrichment, RP=Reprocessing, NA=Nuclear Applications,DF=Defence, DC/RE=Decommissioning/Remediation, ND=Not Determined



Note: where volume "as dispo" is provided, volume "as is" is used in the graph instead.

Waste Class: LLW

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LLW	Storage	N	Y	16.000	16.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00
LLW	Storage	Y	Y	1.000	1.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00

Waste Class: ILW

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
ILW	Storage	N	Y	3.000	3.000	40.00	0.00	0.00	60.00	0.00	0.00	0.00
ILW	Storage	Y	Y	2.000	2.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00

Processing - Treatment method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Chemical Precipitation	N	N	Decrease	N
Compaction	N	N	Decrease	N
Ion Exchange	N	N	Decrease	N

Site (Data) : RPS

Stock of waste as at December 2007

Country: PHILIPPINES

Reporting Year: 2007

Processing - Conditioning method(s)

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

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 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	5			Y	N	Y	5.000E-002	2007.12
	5.000E-002							
Cd-109	1			N	Y	Y	2.100E-005	2007.12
	2.100E-005							
Cf-252	4			N	Y	Y	8.100E-002	2007.12
	8.100E-002							
Co-57	6			N	Y	Y	2.200E-003	2007.12
	2.200E-003							
Co-60	34			Y	N	Y	1.400E+000	2007.12
	1.400E+000							
Co-60	51			N	Y	Y	1.700E+000	2007.12
	1.700E+000							
Co-60		3		Y	N	Y	3.200E+001	2007.12
		3.200E+001						
Co-60		4		N	Y	Y	4.800E+002	2007.12
		4.800E+002						
Co-60	9	1		N	Y	Y	3.900E+001	2007.12
	1.100E+001	2.800E+001						
Co-60		9		Y	N	Y	6.700E+004	2007.12
		6.700E+004						

Site (Data) : RPS

Stock of waste as at December 2007

Country: PHILIPPINES

Reporting Year: 2007

Co-60			2	N	Y	Y	1.000E+005	2007.12
			1.000E+005					
Co-60		9		N	Y	Y	1.200E+005	2007.12
		1.200E+005						
Cs-137	24			N	Y	Y	9.300E+000	2007.12
	9.300E+000							
Cs-137	15	47		Y	N	Y	7.390E+002	2007.12
	2.900E+001	7.100E+002						
Cs-137	10	28		N	Y	Y	3.090E+002	2007.12
	2.900E+001	2.800E+002						
Cs-137	42			Y	N	Y	2.400E+001	2007.12
	2.400E+001							
Cs-137		2		Y	N	Y	5.200E+004	2007.12
		5.200E+004						
Fe-55	14			Y	N	Y	7.800E-001	2007.12
	7.800E-001							
Fe-55	6			N	Y	Y	8.200E-001	2007.12
	8.200E-001							
H-3	7			Y	N	Y	1.100E+001	2007.12
	1.100E+001							
H-3		8		N	Y	Y	6.700E+001	2007.12
		6.700E+001						
Ir-192	14			N	Y	Y	7.500E-001	2007.12
	7.500E-001							
Kr-85	3			N	Y	Y	3.200E-001	2007.12
	3.200E-001							
Kr-85	17	1		Y	N	Y	1.360E+001	2007.12
	3.600E+000	1.000E+001						
Pm-147	4			Y	N	Y	2.300E+000	2007.12
	2.300E+000							

Site (Data) : RPS

Stock of waste as at December 2007

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Pm-147	16	1		N	Y	Y	9.900E+000	2007.12
	1.800E+000	8.100E+000						
Sr-90	102	2		Y	N	Y	4.300E+001	2007.12
	3.200E+001	1.100E+001						
Sr-90	64	2		N	Y	Y	2.300E+001	2007.12
	1.100E+001	1.200E+001						
Sr-90		1		N	Y	Y	3.800E+001	2007.12
		3.800E+001						
TI-204	1			Y	N	Y	7.400E-005	2007.12
	7.400E-005							
TI-204	7			N	Y	Y	4.800E-004	2007.12
	4.800E-004							

Site (Data) : RPS

Stock of waste as at December 2007

Country: PHILIPPINES

Reporting Year: 2007

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	887		N	Y	Y	3.900E-001	2007.12
	3.900E-001						
Am-241	6	4	Y	N	Y	2.480E+001	2007.12
	9.800E+000	1.500E+001					
Am-241		2	N	Y	Y	2.900E+002	2007.12
		2.900E+002					
Am-241	7	6	N	Y	Y	1.110E+002	2007.12
	1.100E+001	1.000E+002					
Ni-63	350		N	Y	Y	1.200E+000	2007.12
	1.200E+000						
Pu-238	9		N	Y	Y	8.400E+000	2007.12
	8.400E+000						
Ra-226	22		N	Y	Y	1.000E+000	2007.12
	1.000E+000						
Ra-226	277		Y	N	Y	3.800E+001	2007.12
	3.800E+001						
Ra-226	2		N	Y	Y	2.200E+000	2007.12
	2.200E+000						

Multiple Nuclides SRS in Storage

Nuclide	Activity of Sources (GBq)	cond	uncond	cat	Decay Date
Am-241	2.700E+001	Y	N	Y	2007.12
Cs-137	2.800E+000	Y	N	N	2004.03
Am-241	6.400E+000	N	Y	Y	2007.12
Cs-137	3.300E+000	N	Y	N	2004.03

Regulators

Country: PHILIPPINES

Reporting Year: 2007

Name:	PNRI
Full Name:	Philippine Nuclear Research Institute
Divison:	Nuclear Regulations, Licensing and Safeguards Division
City or Town:	Quezon City
Main Website:	

Regulations / Laws

Country: PHILIPPINES

Reporting Year: 2007

Name:	CPRPart3		
Title or Name:	Standards for Radiation Protection		
Reference Number:	PNRI CPR PART 3		
Date Promulgated or Proclaimed:	9/6/2004	Regulation	

Name:	CPR Part4		
Title or Name:	Regulations for Safe Transport of Radioactive Material in the Philippines		
Reference Number:	PNRI CPRPart4		
Date Promulgated or Proclaimed:	9/6/2004	Regulation	

Name:	CPRPart23		
Title or Name:	Licensing Requirements for Land Disposal of Radioactive Waste		
Reference Number:	PNRICPRPart23		
Date Promulgated or Proclaimed:	5/9/2004	Regulation	

Milestones

Country: PHILIPPINES

Reporting Year: 2007

Start Year or Reference Year:	2004	End Year:	2005
Description of Milestone:			
Upgraded the security of the radioactive waste management facility and construction of new engineered trench with a capacity of approx. 300 cu.m. under the US-DOE project			
Start Year or Reference Year:	1999	End Year:	2001
Description of Milestone:			
Radium Conditioning under the IAEA Advisory Involvement Scheme			
Start Year or Reference Year:	1998	End Year:	1999
Description of Milestone:			
Establishment of the National Registry of Radiation Sources			
Start Year or Reference Year:	1996	End Year:	1997
Description of Milestone:			
Commissioning of the Centralized Facility for Radioactive Waste Management			

Policies

Country: PHILIPPINES

Reporting Year: 2007

National Systems

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

Policies

Country: PHILIPPINES

Reporting Year: 2007

Activities		(Yes;Partially;No)
Q43	perform safety and environmental impact assessments for radioactive waste management facilities	Yes
Q44	ensure adequate radiation protection for workers, the general public and the environment	Yes
Q45	ensure suitable staff, equipment, facilities, training and operating procedures are available to perform the safe radioactive waste management steps	Yes
Q46	establish and implement a quality assurance programme for the radioactive waste generated or its processing, storage and disposal	Yes
Q47	establish and keep records of appropriate information regarding the generation, processing, storage and disposal of radioactive waste, including an inventory of radioactive waste	Yes
Q48	provide surveillance and control of activities involving radioactive waste as required by the regulatory body	Yes
Q49	collect, analyze and, as appropriate, share operational experience to ensure continued safety improvements in radioactive waste management	Yes
Q50	conduct or otherwise ensure appropriate research and development to support operational needs in radioactive waste management	Yes
Clearance		(Yes;No)
Q128	Does your country have "clearly defined clearance levels based on radiological criteria, with policy statements that material below those levels can be recycled or disposed of with non-radioactive wastes"?	No
Q129	Has your country ever used a "case-by-case" approach to clearing radioactive wastes (excluding spent/disused sealed radioactive sources)?	No
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

Country: PHILIPPINES

Reporting Year: 2007

Disposal Facilities

Licensing		(Yes - All;Yes - Some;No)
Q53	Environmental Assessment (EA)	No
Q54	Environmental Impact Statement (EIS)	No
Q55	Performance Assessment (PA)	No
Q56	Quality Assurance (QA)	No
Q57	Safety Assessment (SA)	No
Operation		(Yes - All;Yes - Some;No)
Q60	Does your Country have formal, documented waste acceptance criteria for its operating or proposed disposal facilities?	No
Post-Closure		(Yes;No)
Q61	Does your Country have any written policies to address the maintenance of records that describe the design, location and inventory of waste disposal facilities?	No
Q63	Does your Country have any written policies to address active institutional controls or passive institutional controls, such as monitoring or access restrictions?	No

Policies

Country: PHILIPPINES

Reporting Year: 2007

Processing/Storage

Policies/Procedures		(Yes;No)
Q73	waste sorting/segregation	Yes
Q74	waste minimization	No
Q75	waste storage	Yes
Q76	processing and/or storing and/or disposing of nuclear fuel cycle waste separately from non-nuclear fuel cycle waste (also known as nuclear applications waste)	No
Q78	Does your country have any legislation, regulation, or policy that waste processing must take place prior to storage (see following note)	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?	Yes
Q82	In your Country are there any mobile waste processing facilities?	No
Foreign		(Yes;No)
Q121	Has your country sent any wastes or spent fuel to another country for processing (reprocessing for fuel)?	No
Q124	Has your country accepted any wastes or spent fuel from another country for processing (reprocessing for fuel)?	No

Policies

Country: PHILIPPINES

Reporting Year: 2007

Spent/Disused SRS

Registration		(Yes;No)
Q84	Is there a national level registry?	Yes
Q85	If answer was yes, is the registry used only for disused/spent SRS?	No
Q87	Are there regional-level registries (one or more)?	No
Q90	Are there local-level registries (one or more)?	Yes
Q115	If the answer was yes, are any registries used only for disused/spent SRS?	Yes
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?	No
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)?	No
Q100	Has your Country disposed of spent SRS in existing disposal facilities for LILW or HLW waste?	No
Q101	Does your Country plan to dispose of spent SRS in existing or planned disposal facilities for LILW or HLW waste?	Yes
Q102	Has your Country implemented dedicated disposal facilities for spent SRS?	No
Q103	Does your Country have plans to implement dedicated disposal facilities for spent SRS?	No
Import-Export		
Radioactive Waste		(Yes;No)
Q104	Does your Country have laws or Regulations restricting either the import or export of radioactive waste (excluding spent fuel)?	Yes
Spent Fuel		(Yes;No)
Q105	Does your Country have laws or Regulations restricting either the import or export of spent fuel?	Yes

Policies

Country: PHILIPPINES

Reporting Year: 2007

Liquid HLW**Storage****(Yes;No)**

Q106 Does your Country have high-level liquid wastes in storage? No

UMMT**Responsibility****(Yes;No)**

Q110 Does your Country have any Uranium Mine and Mill Tailings sites that do not have a designated authority to manage them? No

Decommissioning**Funding****(Yes - All;Yes - Some;No)**

Q111 Does your Country require that funds should be set aside in support of future waste management activities, such as decommissioning activities? No

Facilities**(Yes;No)**

Q119 Does Your Country have any nuclear fuel cycle facilities? No

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

Future Outlook

Country: PHILIPPINES

Reporting Year: 2007

Data not available.

Future Outlook

Country: PHILIPPINES

Reporting Year: 2007

Data not available.

Future Outlook

Country: PHILIPPINES

Reporting Year: 2007

Data not available.

Future Outlook

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Data not available.