Country Waste Profile Report for

ITALY

Reporting Year: 2009

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

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Waste Classification Schemes

Country: ITALY Reporting Year: 2009

Waste Class Matrix: **IAEA Def.** This country does use the IAEA Scheme: Yes

Description: The Agency's standard matrix

	Distribution %			
Waste Class Name	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: **APAT GT26** No

Description: Long lived wastes not included in category I and II; high level wastes from reprocessing of spent fuel and alpha bearing wastes from the fuel cycle and R&D activities

	Distribution %			
Waste Class Name	VLLW	LLW	ILW	HLW
1st Category	0.0	100.0	0.0	0.0
2nd Category	0.0	100.0	0.0	0.0
3rd Category	0.0	0.0	80.0	20.0

Attachment **#838: Waste Matrix**

TECHNICAL GUIDE N 26.doc

Technical Guide APAT n°26

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
Jnprocessed means:	x			
Processed means:		x	x	x

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Groups Overview

Country: ITALY Reporting Year: 2009

Reporting Group:	**CCR Ispra**
Inventory Reporting Date:	December 2009
Waste Matrix Used:	APAT GT26
Description:	Joint Research Center Ispra

Site Name	Facility Name	Facilities Defined		
CCR Ispra	storage		storage	

Reporting Group:	**FCF**
Inventory Reporting Date:	December 2009
Waste Matrix Used:	APAT GT26
Description:	Fuel Cycle Facilities

Site Name	Facility Name	Facilities Defined		
Avogadro	Storage		storage	
Eurex	Storage		storage	
FN	Storage		storage	
IPU	Storage		storage	
ITREC	SIRTE-MOWA	processing	storage	
	Storage		storage	
Opec	Storage		storage	

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Groups Overview

Country: ITALY Reporting Year: 2009

Reporting Group:	**NPPs**
Inventory Reporting Date:	December 2009
Waste Matrix Used:	APAT GT26
Description:	In Italy operated 4 NPPs owned by the national electricity company ENEL. After the shut down due to a referendum on 1987, on 1999 all the ENEL?s liabilities and assets connected to nuclear power have been assigned to a newly established company, named SOGIN (Società Gestione Impianti Nucleari). SOGIN has the responsibility of waste management and complete decommissioning of all the NPPs.

Site Name	Facility Name	Facilities Defined		
Caorso	LILW store		storage	
	Pool		storage	
Garigliano	LILW store		storage	
Latina	LILW store		storage	
Trino	LILW store		storage	
	Pool		storage	

Reporting Group:	**Nucleco**
Inventory Reporting Date:	December 2009
Waste Matrix Used:	APAT GT26
Description:	Radioactive waste collection, treatment and storage facility

Site Name	Facility Name	Facilities Defined		
Nucleco	Process	processing		
	Storage		storage	

Reporting Group:	**R&IRW**
Inventory Reporting Date:	December 2009
Waste Matrix Used:	APAT GT26
Description:	Research and Institutional radioactive waste facilities

Site Name	Facility Name	Facilities Defined		
Various	Storage		storage	

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Site (Structure) : CCR Ispra

Country: ITALY Reporting Year: 2009

Full Name: Euratom Joint Research Center Ispra

License Holder(s): Euratom

The following list the waste management facilities that are located at this site.

Facility:	**storage**
Description:	several facilities

Storage part of facility **storage**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
1st Category	No	No
2nd Category	Yes	No
3rd Category	Yes	No

List SRS?	No
List UMMT?	No

Capacity:	sufficient for all waste

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Site (Structure) : CCR Ispra

Country: ITALY Reporting Year: 2009

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Site (Data) : CCR Ispra

Stock of waste as at December 2009

Country: ITALY Reporting Year: 2009

Site Name: **CCR Ispra**

Full Name: Euratom Joint Research Center Ispra

Inventory Reporting Date: December 2009 Waste Matrix Used: APAT GT26

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

Waste Class: **2nd Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
2nd Category	Storage / storage	N	N	1672.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00

Waste Class: **3rd Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
3rd Category	Storage / storage	N	N	240.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00
3rd Category	Storage / storage	Y	N	705.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00

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Site (Structure) : Avogadro

Country: ITALY Reporting Year: 2009

Full Name: Deposito Avogadro

License Holder(s): FIAT AVIO

The following list the waste management facilities that are located at this site.

Facility:	**Storage**
Description:	

Storage part of facility **Storage**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
1st Category	No	No
2nd Category	Yes	Yes
3rd Category	No	No

List SRS?	No
List UMMT?	No

Capacity:	

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Site (Structure) : Avogadro

Country: ITALY Reporting Year: 2009

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Site (Data) : Avogadro

Stock of waste as at December 2009

Country: ITALY Reporting Year: 2009

Site Name: **Avogadro**

Full Name: Deposito Avogadro

Inventory Reporting Date: December 2009 Waste Matrix Used: APAT GT26

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

Waste Class: **2nd Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
2nd Category	Storage / Storage	N	Y	65.800	100.00	0.00	0.00	0.00	0.00	0.00	0.00

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Site (Structure) : Eurex

Country: ITALY Reporting Year: 2009

Full Name: Enriched Uranium Extraction plant

License Holder(s): SOGIN

The following list the waste management facilities that are located at this site.

Facility:	**Storage**
Description:	

Storage part of facility **Storage**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
1st Category	No	No
2nd Category	Yes	Yes
3rd Category	Yes	Yes

List SRS?	No
List UMMT?	No

Capacity:	

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Site (Structure) : Eurex

Country: ITALY

Reporting Year: 2009

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Site (Data) : Eurex

Stock of waste as at December 2009

Country: ITALY Reporting Year: 2009

Site Name: **Eurex**

Full Name: Enriched Uranium Extraction plant

Inventory Reporting Date: December 2009 Waste Matrix Used: APAT GT26

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

Waste Class: **2nd Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
2nd Category (liquid)	Storage	N	Y	144.800	0.00	0.00	100.00	0.00	0.00	0.00	0.00
2nd Category (solid)	Storage	N	Y	2118.000	0.00	0.00	100.00	0.00	0.00	0.00	0.00
2nd Category (solid)	Storage	Y	Y	166.600	0.00	0.00	100.00	0.00	0.00	0.00	0.00

Waste Class: **3rd Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
3rd Category (liquid)	Storage	N	Y	113.300	0.00	0.00	100.00	0.00	0.00	0.00	0.00
3rd Category (solid)	Storage	N	Y	276.000	0.00	0.00	100.00	0.00	0.00	0.00	0.00
3rd Category (solid)	Storage	Y	Y	24.500	0.00	0.00	100.00	0.00	0.00	0.00	0.00

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Site (Structure) : FN

Country: ITALY Reporting Year: 2009

Full Name: Fabbricazioni Nucleari

License Holder(s): Sogin

The following list the waste management facilities that are located at this site.

Facility:	**Storage**
Description:	

Storage part of facility **Storage**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
1st Category	No	No
2nd Category	Yes	Yes
3rd Category	No	No

List SRS?	No
List UMMT?	No

Capacity:	

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Site (Structure) : FN

Country: ITALY Reporting Year: 2009

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Site (Data) : FN

Stock of waste as at December 2009

Country: ITALY Reporting Year: 2009

Site Name: **FN**

Full Name: Fabbricazioni Nucleari

Inventory Reporting Date: December 2009 Waste Matrix Used: APAT GT26

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

Waste Class: **2nd Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
2nd Category	Storage / Storage	N	Y	101.400	0.00	80.00	0.00	0.00	0.00	20.00	0.00
2nd Category	Storage / Storage	Y	Y	232.200	0.00	100.00	0.00	0.00	0.00	0.00	0.00

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Site (Structure) : IPU

Country: ITALY Reporting Year: 2009

Full Name: Impianto Plutonio

License Holder(s): Sogin

The following list the waste management facilities that are located at this site.

Facility:	**Storage**
Description:	

Storage part of facility **Storage**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
1st Category	No	No
2nd Category	No	Yes
3rd Category	Yes	Yes

List SRS?	No
List UMMT?	No

Capacity:	

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Site (Structure) : IPU

Country: ITALY

Reporting Year: 2009

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Site (Data) : IPU

Stock of waste as at December 2009

Country: ITALY Reporting Year: 2009

Site Name: **IPU**

Full Name: Impianto Plutonio

Inventory Reporting Date: December 2009 Waste Matrix Used: APAT GT26

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

Waste Class: **3rd Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
3rd Category	Storage	N	Y	83.700	0.00	100.00	0.00	0.00	0.00	0.00	0.00

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Site (Structure) : ITREC

Country: ITALY Reporting Year: 2009

Full Name: Fuel elements treatment and fabrication plant

License Holder(s): Sogin

The following list the waste management facilities that are located at this site.

Facility:	**SIRTE-MOWA**
Description:	Cementation facility

Storage part of facility **SIRTE-MOWA**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
1st Category	Yes	Yes
2nd Category	Yes	Yes
3rd Category	Yes	Yes

List SRS?	No
List UMMT?	No

Capacity:	

Processing part of facility **SIRTE-MOWA**

The following shows processing status for waste classes and SRS.

Waste CLass	Actual	Planned
1st Category	No	No
2nd Category	No	No
3rd Category	No	No

Type:	Conditioning
Year opened:	1999

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Site (Structure) : ITREC

Country: ITALY Reporting Year: 2009

Facility:	**Storage**
Description:	

Storage part of facility **Storage**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
1st Category	Yes	Yes
2nd Category	Yes	Yes
3rd Category	Yes	Yes

List SRS?	No
List UMMT?	No

Capacity:	

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Site (Structure) : ITREC

Country: ITALY Reporting Year: 2009

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Site (Data) : ITREC

Stock of waste as at December 2009

Country: ITALY Reporting Year: 2009

Site Name: **ITREC**

Full Name: Fuel elements treatment and fabrication plant

Inventory Reporting Date: December 2009 Waste Matrix Used: APAT GT26

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

Waste Class: **1st Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
1st Category	Storage	N	Y	450.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00

Waste Class: **2nd Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
2nd Category	Storage / Storage	N	Y	2208.600	0.00	0.00	100.00	0.00	0.00	0.00	0.00
2nd Category	Storage / Storage	Y	Y	861.600	0.00	0.00	100.00	0.00	0.00	0.00	0.00

Waste Class: **3rd Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
3rd Category	Storage / Storage	N	Y	43.000	0.00	0.00	100.00	0.00	0.00	0.00	0.00

Processing - Conditioning method(s)

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

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Site (Structure) : Opec

Country: ITALY Reporting Year: 2009

Full Name: Hot Operation Laboratory

License Holder(s): Sogin

The following list the waste management facilities that are located at this site.

Facility:	**Storage**
Description:	

Storage part of facility **Storage**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
1st Category	No	No
2nd Category	No	Yes
3rd Category	Yes	Yes

List SRS?	No
List UMMT?	No

Capacity:	

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Site (Structure) : Opec

Country: ITALY

Reporting Year: 2009

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Site (Data) : Opec

Stock of waste as at December 2009

Country: ITALY Reporting Year: 2009

Site Name: **Opec**

Full Name: Hot Operation Laboratory

Inventory Reporting Date: December 2009 Waste Matrix Used: APAT GT26

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

Waste Class: **3rd Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
3rd Category	Storage	N	Y	9.900	0.00	0.00	0.00	100.00	0.00	0.00	0.00

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Site (Structure) : Caorso

Country: ITALY Reporting Year: 2009

Full Name: Centrale Nucleare Caorso

License Holder(s): SOGIN

The following list the waste management facilities that are located at this site.

Facility:	**LILW store**
Description:	Various storage facilities

Storage part of facility **LILW store**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
1st Category	No	No
2nd Category	Yes	Yes
3rd Category	No	No

List SRS?	No
List UMMT?	No

Capacity:	

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Site (Structure) : Caorso

Country: ITALY Reporting Year: 2009

Facility:	**Pool**
Description:	Reactor pool

Storage part of facility

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
1st Category	No	No
2nd Category	No	No
3rd Category	No	No

List SRS?	No
List UMMT?	No

Capacity:	

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Site (Structure) : Caorso

Country: ITALY Reporting Year: 2009

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Site (Data) : Caorso

Stock of waste as at December 2009

Country: ITALY Reporting Year: 2009

Site Name: **Caorso**

Full Name: Centrale Nucleare Caorso

Inventory Reporting Date: December 2009 Waste Matrix Used: APAT GT26

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

Waste Class: **2nd Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
2nd Category	Storage / LILW store	N	Y	1881.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
2nd Category	Storage / LILW store	Y	Y	428.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00

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Site (Structure) : Garigliano

Country: ITALY Reporting Year: 2009

Full Name: Centrale Elettronucleare del Garigliano

License Holder(s): SOGIN

The following list the waste management facilities that are located at this site.

Facility:	**LILW store**
Description:	LILW storage facilities

Storage part of facility **LILW store**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
1st Category	No	No
2nd Category	Yes	Yes
3rd Category	No	No

List SRS?	No
List UMMT?	No

Capacity:	

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Site (Structure) : Garigliano

Country: ITALY Reporting Year: 2009

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Site (Data) : Garigliano

Stock of waste as at December 2009

Country: ITALY Reporting Year: 2009

Site Name: **Garigliano**

Full Name: Centrale Elettronucleare del Garigliano

Inventory Reporting Date: December 2009 Waste Matrix Used: APAT GT26

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

Waste Class: **2nd Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
2nd Category	Storage / LILW store	N	Y	1244.000	80.00	0.00	0.00	0.00	0.00	20.00	0.00
2nd Category	Storage / LILW store	Y	Y	1752.000	80.00	0.00	0.00	0.00	0.00	20.00	0.00

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Site (Structure) : Latina

Country: ITALY Reporting Year: 2009

Full Name: Centrale Elettronucleare di Latina

License Holder(s): SOGIN

The following list the waste management facilities that are located at this site.

Facility:	**LILW store**
Description:	LILW storage facilities

Storage part of facility **LILW store**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
1st Category	No	No
2nd Category	Yes	Yes
3rd Category	Yes	Yes

List SRS?	No
List UMMT?	No

Capacity:	

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Site (Structure) : Latina

Country: ITALY Reporting Year: 2009

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Site (Data) : Latina

Stock of waste as at December 2009

Country: ITALY Reporting Year: 2009

Site Name: **Latina**

Full Name: Centrale Elettronucleare di Latina

Inventory Reporting Date: December 2009 Waste Matrix Used: APAT GT26

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

Waste Class: **2nd Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
2nd Category	Storage / LILW store	N	Y	950.000	80.00	0.00	0.00	0.00	0.00	20.00	0.00
2nd Category	Storage / LILW store	Y	Y	409.000	80.00	0.00	0.00	0.00	0.00	20.00	0.00

Waste Class: **3rd Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
3rd Category	Storage	N	Y	12.600	100.00	0.00	0.00	0.00	0.00	0.00	0.00

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Site (Structure) : Trino

Country: ITALY Reporting Year: 2009

Full Name: Centrale Elettronucleare E.Fermi

License Holder(s): SOGIN

The following list the waste management facilities that are located at this site.

Facility:	**LILW store**
Description:	LILW storage facilities

Storage part of facility **LILW store**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
1st Category	No	No
2nd Category	Yes	Yes
3rd Category	Yes	Yes

List SRS?	No
List UMMT?	No

Capacity:	

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Site (Structure) : Trino

Country: ITALY Reporting Year: 2009

Facility:	**Pool**
Description:	Reactor pool

Storage part of facility

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
1st Category	No	No
2nd Category	No	No
3rd Category	No	No

List SRS?	No
List UMMT?	No

Capacity:	

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Site (Structure) : Trino

Country: ITALY Reporting Year: 2009

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Site (Data) : Trino

Stock of waste as at December 2009

Country: ITALY Reporting Year: 2009

Site Name: **Trino**

Full Name: Centrale Elettronucleare E.Fermi

Inventory Reporting Date: December 2009 Waste Matrix Used: APAT GT26

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

Waste Class: **2nd Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
2nd Category	Storage	N	Y	342.500	90.00	0.00	0.00	0.00	0.00	10.00	0.00
2nd Category	Storage	Y	Y	704.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Waste Class: **3rd Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
3rd Category	Storage	N	Y	61.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00

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Site (Structure) : Nucleco

Country: ITALY Reporting Year: 2009

Full Name: Nuclear Ecology

License Holder(s): ENEA

The following list the waste management facilities that are located at this site.

Facility:	**Process**
Description:	

Processing part of facility **Process**

The following shows processing status for waste classes and SRS.

Waste CLass	Actual	Planned
1st Category	No	No
2nd Category	No	No
3rd Category	No	No

Type:	Treatment, Conditioning
Year opened:	1985

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Site (Structure) : Nucleco

Country: ITALY Reporting Year: 2009

Facility:	**Storage**
Description:	

Storage part of facility **Storage**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
1st Category	Yes	Yes
2nd Category	Yes	Yes
3rd Category	No	Yes

List SRS?	No
List UMMT?	No

Capacity:	

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Site (Structure) : Nucleco

Country: ITALY Reporting Year: 2009

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Site (Data) : Nucleco

Stock of waste as at December 2009

Country: ITALY Reporting Year: 2009

Site Name: **Nucleco**

Full Name: Nuclear Ecology

Inventory Reporting Date: December 2009 Waste Matrix Used: APAT GT26

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

Waste Class: **1st Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
1st Category	Storage / Storage	N	Y	515.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00

Waste Class: **2nd Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
2nd Category	Storage / Storage	N	Y	1037.800	0.00	50.00	0.00	40.00	0.00	10.00	0.00
2nd Category	Storage / Storage	Y	Y	4351.600	0.00	50.00	0.00	40.00	0.00	10.00	0.00

Processing - Treatment method(s)

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

Processing - Conditioning method(s)

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

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Site (Structure) : Various

Country: ITALY Reporting Year: 2009

Full Name:

License Holder(s): different operators

The following list the waste management facilities that are located at this site.

Facility:	**Storage**
Description:	

Storage part of facility **Storage**

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
1st Category	Yes	Yes
2nd Category	Yes	Yes
3rd Category	Yes	Yes

List SRS?	No
List UMMT?	No

Capacity:	

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Site (Structure) : Various

Country: ITALY

Reporting Year: 2009

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Site (Data) : Various

Stock of waste as at December 2009

Country: ITALY Reporting Year: 2009

Site Name: **Various**

Full Name:

Inventory Reporting Date: December 2009 Waste Matrix Used: APAT GT26

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

Waste Class: **1st Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
1st Category	Storage	N	Y	3176.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00

Waste Class: **2nd Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
2nd Category	Storage	N	Y	1168.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00
2nd Category	Storage	Y	Y	110.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00

Waste Class: **3rd Category**

Waste Class Name	Location / Facility	Proc	Est.	Volume (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
3rd Category	Storage	N	Y	49.400	0.00	0.00	0.00	100.00	0.00	0.00	0.00
3rd Category	Storage	Y	Y	140.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00

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Regulators

Country: ITALY Reporting Year: 2009

Name:	**ISPRA**
Full Name:	Istituto Superiore per la Ricerca e la Protezione Ambientale Institute foe the Environmental Protection and Research
Divison:	Nuclear and Industrial Risk Department
City or Town:	Rome

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Regulations / Laws

Country: ITALY Reporting Year: 2009

Name:	**Law n°1860**	
Title or Name:	Law no. 1860 of 31 December 1962	
Reference Number:	Law no. 1860 of 31 December 1962	
Date Promulgated or Proclaimed:	1962-12-31	Law

Name:	**LD n°230**	
Title or Name:	Legislative Decree no. 230 of 17 March 1995	
Reference Number:	Legislative Decree no. 230 of 17 March 1995	
Date Promulgated or Proclaimed:	1995-03-17	Law

Name:	**LD n°241**	
Title or Name:	Legislative Decree no. 241 of 26th May 2000	
Reference Number:	Legislative Decree no. 241 of 26th May 2000	
Date Promulgated or Proclaimed:	2000-05-26	Law

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Milestones

Country: ITALY

Reporting Year: 2009

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Policies

Country: ITALY Reporting Year: 2009

National Systems

Policy		(Yes;Partially;No)
Q14	Has your Country implemented a national policy for radioactive waste management?	Partially

Comment **# 7364: Policy on Radioactive waste management**

Strategic guidelines for the management of the past nuclear activities and in particular for the radioactive waste management and decommissioning of the nuclear installations are provided in a Ministerial Decree of 1999.

The Decree established the procedures for the immediate dismantling of the 4 NPPs and fuel cycle facilities and for the realization of a national LLW repository and of a long term storage facility for the HLW and SF.

The growing international concern on terrorist activities has emphasized the risk for the unresolved solution of spent fuel and radioactive waste disposal management, consequently Legislative Decree has been approved on december 2003. The LD n° 368 establishes the procedures for the identification and operation by 2008 of a repository for HLW and SF.

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	No
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	Partially

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Policies

Country: ITALY Reporting Year: 2009

	Responsibilities	(Complete;Incomplete)
	Member State Responsibility	
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
	Regulatory Body Responsibility	
Q33	enforce compliance with regulatory requirements	Complete
Q34	implement the licensing process	Complete
Q35	advise the government	Complete
	Waste Generator and Operators of Waste Management Facilities Responsibility	
Q37	identify an acceptable destination for the radioactive waste	Incomplete
Q114	comply with legal requirements	Complete

	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

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Policies

Country: ITALY Reporting Year: 2009

	Clearance	(Yes;No)
Q128	Does your country have "clearly defined clearance levels based on radiological criteria, with policy statements that material below those levels can be recycled or disposed of with non-radioactive wastes"?	Yes
Q129	Has your country ever used a "case-by-case? approach to clearing radioactive wastes (excluding spent/disused sealed radioactive sources)?	Yes
Q130	Has your country ever used clearance levels to dispose of, reuse or recycle radioactive waste as non-radioactive waste or as a non-radioactive resource (excluding spent/disused sealed radioactive sources)?	Yes

Attachment **#1020: Questionaire**

Site and materials release in Italy.doc

site and solid material release in Italy

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Policies

Country: ITALY Reporting Year: 2009

Disposal Facilities

	Licensing	(Yes - All;Yes - Some;No)
	If any of the following are part of your disposal policy, indicate Yes - All if they apply to all facilities, indicate Yes - Some if the apply to only some of the facilities or indicate No if they are not part of your policy at all.	
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

Comment **# 7608: Disposal facilities**

In Italy, there is not yet a LLW disposal facility and the radioactive waste from NPPs and from experimental fuel cycle facilities is still stored at their points of origin. Radioactive waste from medical, industry and research activities is collected for temporary storage by private operators. Most of this waste is stored as produced, waiting for treatment and/or conditioning. According to the present strategy, a national site for LLW disposal and for the HLW long term storage (including spent fuel) is foreseen by the end of 2008.

	Operation	(Yes - All;Yes - Some;No)
Q60	Does your Country have formal, documented waste acceptance criteria for its operating or proposed disposal facilities?	Yes - Some

Comment **# 7610: Policy on Radioactive waste management**

Even if disposal facilities are not available, APAT Technical Guide n°26 gives Waste Acceptance Criteria for LLW conditioning that are considered for a conceptual near surface disposal facility.

	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

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Policies

Country: ITALY Reporting Year: 2009

Processing/Storage

	Policies/Procedures	(Yes;No)
	Does your country have written policies or written procedures for the following:	
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?	No

	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

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Policies

Country: ITALY Reporting Year: 2009

Spent/Disused SRS

	Registration	(Yes;No)
Q84	Is there a national level registry?	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

Attachment **#868: Questionaire**

Spent Sources Regulation in ITALY.doc

This document describes SRS regulation in Italy and includes information about the total activity of SRS that are stored at various sites throughout Italy.

	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)
	Does your Country have any agreements in place whereby spent sealed radioactive sources (SRS) are returned to their supplier by the user (check all options that apply)?	
Q93	Government to Government agreements	No
Q94	Government - Supplier agreements	No
Q95	Supplier-User agreements	No
Q97	Do any agreements include suppliers that are outside of your Country?	No

	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?	No
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

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Policies

Country: ITALY Reporting Year: 2009

Import-Export

	Radioactive Waste	(Yes;No)
Q104	Does your Country have laws or Regulations restricting either the import or export of radioactive waste (excluding spent fuel)?	No

	Spent Fuel	(Yes;No)
Q105	Does your Country have laws or Regulations restricting either the import or export of spent fuel?	No

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 - All

	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 - All
Q109	If the answer to the previous question is Yes, what year is this processing planned to be completed (format = YYYY)	

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

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Policies

Country: ITALY Reporting Year: 2009

Decommissioning

	Funding	(Yes - All;Yes - Some;No)
Q111	Does your Country require that funds should be set aside in support of future waste management activities, such as decommissioning activities?	Yes - All

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

	Timeframe	(Yes - All;Yes - Some;No)
Q112	Does your Country require a time frame for the decommissioning of nuclear fuel cycle facilities once these facilities cease operation?	No
Q113	Does your Country require a time frame for the decommissioning of non-nuclear fuel cycle facilities once these facilities cease operation?	No

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National Inventory by Waste Class

Country: ITALY Reporting Year: 2009

No data available.

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