



**Country Waste Profile Report for
AUSTRALIA
Reporting Year: 2005**

*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: AUSTRALIA

Reporting Year: 2005

Waste Class Matrix: **IAEA Def.**

This country does use the IAEA Scheme: Yes

Description: The Agency's standard matrix

Waste Class Name	Distribution %		
	LILW-SL	LILW-LL	HLW
LILW-SL	100.0	0.0	0.0
LILW-LL	0.0	100.0	0.0
HLW	0.0	0.0	100.0

Comment **# 12291: Waste Matrix IAEA Def.**

Australia does not have a uniform definition of waste categories. Most jurisdictions do not specifically define or categorize radioactive waste in legislation. In practice in most jurisdictions, any sealed or unsealed material containing radionuclides at levels above exemption and for which no further use is envisaged is regarded as radioactive waste. In most cases wastes are categorized, for management purposes, as long-lived or short-lived, liquid or solid, and sealed or unsealed. Further categorization is based on IAEA recommendations (New South Wales, Northern Territory), nuclide (Queensland), or, for small quantities of solid waste, on the Code of Practice for the Disposal of Radioactive Wastes by the User (NHMRC, 1985). Categorization is also based on the Code of Practice for the Near-Surface Disposal of Radioactive Waste in Australia (NHMRC, 1992). Between them these codes define waste that can be disposed of at urban landfill and therefore what needs to go to a near surface disposal facility. The Near Surface Disposal Code defines three categories of waste that can be disposed of by near surface disposal: lightly contaminated items such as protective clothing, laboratory equipment, plastic, etc; shielded sources and small items of contaminated equipment; and bulk materials such as contaminated soils or large individual items of contaminated plant. Waste that is unsuitable for near surface disposal must be stored pending deep geological disposal or disposal following a suitable period of decay.

Comment **# 12292: Waste Matrix IAEA Def.**

For the classification of Australian radioactive waste, regulators agreed that the IAEA classification system as specified in Safety Guide 111-G-1.1 was appropriate for Australia with some modification for bulk waste together with supporting documentation, particularly in relation to the thresholds between classification levels. The IAEA classification was used for this report (NEWMDB submission).

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

Is not defined

Groups Overview

Country: AUSTRALIA

Reporting Year: 2005

Reporting Group:	IAEA-Austl
Inventory Reporting Date:	December 2002
Waste Matrix Used:	IAEA Def.
Description:	This submission was prepared by the IAEA. The information was obtained from the Australian National Report to the Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management (Joint Convention Report), October 2005

Site Name	Facility Name	Facilities Defined		
ACT	StorageFac		storage	
AG RWMF	StorageFac		storage	
ANSTO RWM	Compaction	processing		
	Decon Fac	processing		
	Hot Cells	processing		
	IL Liquid	processing	storage	
	ILSWStore		storage	
	Little FBG			disposal
	LLLTreatm	processing		
	LLSWStore		storage	
	WTPF	processing		
HIFAR	Dry Store		storage	
	Load Pond		storage	
	Wet Store		storage	
National	RWStore		storage	
NSW	StorageFac		storage	
NT	Stores		storage	
Queensland	StorageFac		storage	
SA	RWMF		storage	
Tasmania	StorageFac		storage	
WA	Mt WaltonE			disposal
	QEII Store		storage	

Groups Overview

Country: AUSTRALIA

Reporting Year: 2005

Comment # 12295: Reporting Date

The reference date for this submission is 2005, as the information was obtained from the JC report (October 2005). But the inventories provided in this report are from 2002 and 2001. The inventories must be updated.

Comment # 12296: Sites

The sites are organized by jurisdictions. The Licence Holder is not reported for all sites. This information must be updated

Comment # 12297: Reporting Group IAEA-Austl-No site in Victoria

Whilst Victoria does not have any Radioactive Waste Management Facilities within the meaning of the Joint Convention, Victoria has the Victorian Interim Storage for seized and abandoned radioactive materials. This facility was not included in the NEWMDB submission.

Attachment #1239: Reporting Group

Australia-jc2006.pdf

Australian National Report to the Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management (Joint Convention Report), October 2005

Site (Structure) : ACT

Country: AUSTRALIA

Reporting Year: 2005

Full Name: Storage Facility in the Australian Capital Territory

Description:

Official Website:

License Holder(s): ACT Health

Comment # 12304: Site ACT

There is a small store for waste (mostly disused sealed radioactive sources) generated in the Australian Capital Territory. This store is owned and operated by ACT Health, the government agency responsible for implementation of radiation safety legislation in the Australian Capital Territory. The store has not been accepting new waste. However sources would be accepted in an emergency, to prevent generation of orphan sources in the Australian Capital Territory.

Waste management facilities that are located at this site:

Facility:	StorageFac					
Description:	Storage Facility for radioactive waste generated in the Australian Capital Territory					
Storage part of facility		StorageFac				
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
LILW-SL	Yes	Yes				
LILW-LL	Yes	Yes				
HLW	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:						
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Store	building	0	No	No	No	No

Site (Data) : ACT

Stock of waste as at December 2002

Country: AUSTRALIA

Reporting Year: 2005

Site Name: ACT

Full Name: Storage Facility in the Australian Capital Territory

Inventory Reporting Date: December 2002 Waste Matrix Used: IAEA Def.

Comment **# 12304: Site ACT**

There is a small store for waste (mostly disused sealed radioactive sources) generated in the Australian Capital Territory. This store is owned and operated by ACT Health, the government agency responsible for implementation of radiation safety legislation in the Australian Capital Territory. The store has not been accepting new waste. However sources would be accepted in an emergency, to prevent generation of orphan sources in the Australian Capital Territory.

No Waste Data to report.

Site (Structure) : AG RWMF

Country: AUSTRALIA

Reporting Year: 2005

Full Name: Other Australian government radioactive waste management facilities

Description:

Official Website:

License Holder(s): Australian Radiation Protection and Nuclear Safety Agency / Commonwealth Scientific and Industrial Research Organisation
 Australian Radiation Protection and Nuclear Safety Agency / Commonwealth Scientific and Industrial Research Organisation

Comment # 12303: Site AG RWMF

The Australian Radiation Protection and Nuclear Safety Agency has a small waste store located at its Yallambie, Victoria premises. The Commonwealth Scientific and Industrial Research Organisation has a number of small stores for waste at its laboratories around Australia (Black Mountain, TFT Belmont, Clayton, North Ryde, University of Queensland - Gatton, Armidale - NSW, Rockhampton, Parkville, Aspendale, Pullenvale, Lucas Heights, Gungahlin Site, Woodville). The radioactive waste stores in the Woomera Prohibited Area, Evatts Field, Woomera, South Australia, are used to store large quantities of low-level and some intermediate-level waste on a temporary basis. Some of the waste is stored in a concrete bunker. This waste is predominantly disused watches, compasses, old medical sources and irradiation sources. The concrete bunker has concrete blast walls on 3 sides with raised earthen mounds on 2 of these sides. Other wastes (contaminated soil and treated ore wastes) are stored in drums in a large hangar.

Waste management facilities that are located at this site:

Facility:	StorageFac												
Description:	Radioactive Waste Storage Facilities												
<p>Storage part of facility StorageFac</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>LILW-SL</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>LILW-LL</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>HLW</td> <td>No</td> <td>No</td> </tr> </tbody> </table>		Waste Class	Actual	Planned	LILW-SL	Yes	Yes	LILW-LL	Yes	Yes	HLW	No	No
Waste Class	Actual	Planned											
LILW-SL	Yes	Yes											
LILW-LL	Yes	Yes											
HLW	No	No											
List SRS?	No												
List UMMT?	No												
Capacity:													
Types of Storage Units													
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?							
Stores	various	0	No	No	No	No							

Site (Data) : AG RWMF

Stock of waste as at December 2002

Country: AUSTRALIA

Reporting Year: 2005

Site Name: AG RWMF

Full Name: Other Australian government radioactive waste management facilities

Inventory Reporting Date: December 2002 Waste Matrix Used: IAEA Def.

Comment **# 12303: Site AG RWMF**

The Australian Radiation Protection and Nuclear Safety Agency has a small waste store located at its Yallambie, Victoria premises. The Commonwealth Scientific and Industrial Research Organisation has a number of small stores for waste at its laboratories around Australia (Black Mountain, TFT Belmont, Clayton, North Ryde, University of Queensland - Gatton, Armidale - NSW, Rockhampton, Parkville, Aspendale, Pullenvale, Lucas Heights, Gungahlin Site, Woodville). The radioactive waste stores in the Woomera Prohibited Area, Evatts Field, Woomera, South Australia, are used to store large quantities of low-level and some intermediate-level waste on a temporary basis. Some of the waste is stored in a concrete bunker. This waste is predominantly disused watches, compasses, old medical sources and irradiation sources. The concrete bunker has concrete blast walls on 3 sides with raised earthen mounds on 2 of these sides. Other wastes (contaminated soil and treated ore wastes) are stored in drums in a large hangar.

No Waste Data to report.

Site (Structure) : ANSTO RWM

Country: AUSTRALIA

Reporting Year: 2005

Full Name: ANSTO facility for Radioactive Waste Management

Description:

Official Website:

License Holder(s): Australian Nuclear Science and Technology Organization (ANSTO) - Australian Government Jurisdiction

Comment # 12301: Site ANSTO RWM

ANSTO operates several facilities for managing liquid and solid radioactive waste arising from its routine operations. Different facilities are used depending on radiation levels and the method of ultimate disposal, where this can be anticipated. ANSTO's storage facilities are considered to be for medium-term storage. Some higher-activity waste undergoes treatment and conditioning during its period of management; for example, intermediate-level liquid waste is treated and solidified for interim storage.

Waste management facilities that are located at this site:

Facility:	Compaction													
Description:	Low Level Solid Waste Compaction Facility													
<p>Processing part of facility Compaction</p> <p>The following shows processing status for waste classes and SRS.</p> <table border="1"> <thead> <tr> <th>Waste Class</th> <th>Actual</th> <th>Planned</th> </tr> </thead> <tbody> <tr> <td>LILW-SL</td> <td>No</td> <td>No</td> </tr> <tr> <td>LILW-LL</td> <td>No</td> <td>No</td> </tr> <tr> <td>HLW</td> <td>No</td> <td>No</td> </tr> </tbody> </table>			Waste Class	Actual	Planned	LILW-SL	No	No	LILW-LL	No	No	HLW	No	No
Waste Class	Actual	Planned												
LILW-SL	No	No												
LILW-LL	No	No												
HLW	No	No												
Type:	Treatment													
Year opened:	0													

Site (Structure) : ANSTO RWM

Country: AUSTRALIA

Reporting Year: 2005

Facility:	Decon Fac												
Description:	Decontamination centre, for treatment of waste originating from ANSTO activities												
Processing part of facility Decon Fac													
The following shows processing status for waste classes and SRS.													
<table border="1"><thead><tr><th>Waste Class</th><th>Actual</th><th>Planned</th></tr></thead><tbody><tr><td>LILW-SL</td><td>No</td><td>No</td></tr><tr><td>LILW-LL</td><td>No</td><td>No</td></tr><tr><td>HLW</td><td>No</td><td>No</td></tr></tbody></table>	Waste Class	Actual	Planned	LILW-SL	No	No	LILW-LL	No	No	HLW	No	No	
Waste Class	Actual	Planned											
LILW-SL	No	No											
LILW-LL	No	No											
HLW	No	No											
Type:	Treatment												
Year opened:	0												

Site (Structure) : ANSTO RWM

Country: AUSTRALIA

Reporting Year: 2005

Facility:	Hot Cells												
Description:	Hot Cells facility, for treatment of waste originating from ANSTO activities												
Processing part of facility Hot Cells													
The following shows processing status for waste classes and SRS.													
<table border="1"><thead><tr><th>Waste Class</th><th>Actual</th><th>Planned</th></tr></thead><tbody><tr><td>LILW-SL</td><td>No</td><td>No</td></tr><tr><td>LILW-LL</td><td>No</td><td>No</td></tr><tr><td>HLW</td><td>No</td><td>No</td></tr></tbody></table>	Waste Class	Actual	Planned	LILW-SL	No	No	LILW-LL	No	No	HLW	No	No	
Waste Class	Actual	Planned											
LILW-SL	No	No											
LILW-LL	No	No											
HLW	No	No											
Type:	Treatment												
Year opened:	0												

Site (Structure) : ANSTO RWM

Country: AUSTRALIA

Reporting Year: 2005

Facility:	IL Liquid
Description:	Intermediate level liquid waste storage and treatment facility

Storage part of facility IL Liquid

The following shows storage status for waste classes and SRS.

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

List SRS?	No
List UMMT?	No

Capacity:	
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Store	not in list	0	No	No	No	No

Processing part of facility IL Liquid

The following shows processing status for waste classes and SRS.

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

Type:	Treatment
Year opened:	0

Site (Structure) : ANSTO RWM

Country: AUSTRALIA

Reporting Year: 2005

Facility:	ILSWStore					
Description:	Intermediate level solid waste store facility					
Storage part of facility ILSWStore						
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
LILW-SL	Yes	Yes				
LILW-LL	Yes	Yes				
HLW	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:						
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
ILSWStore	not in list	0	No	No	No	No

Site (Structure) : ANSTO RWM

Country: AUSTRALIA

Reporting Year: 2005

Facility:	Little FBG
Description:	Little Forest Burial Ground

Disposal part of facility Little FBG

The following shows disposal status for waste classes and SRS.

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

List SRS?	No
List UMMT?	No

Type:	engineered near surface
Facility is modular?	No

Depth (m):		Host medium:	crystalline rock (other)
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Phase Name	Start Year	End Year	Estimate
operation	1960	1968	False

Comment **# 12302: Disposal Facility Little FBG**

ANSTO has responsibility for a disposal facility called the Little Forest Burial Ground, which is a secure, shallow land burial site used by the former Australian Atomic Energy Commission for the disposal of some wastes up until 1968. The information regarding the disposal facility (in this submission) must be reviewed and update

Site (Structure) : ANSTO RWM

Country: AUSTRALIA

Reporting Year: 2005

Facility:	LLLTreatm		
Description:	Low Level Liquid Waste Treatment Facility		
Processing part of facility	LLLTreatm		
The following shows processing status for waste classes and SRS.			
Waste Class	Actual	Planned	
LILW-SL	No	No	
LILW-LL	No	No	
HLW	No	No	
Type:	Treatment		
Year opened:	0		

Site (Structure) : ANSTO RWM

Country: AUSTRALIA

Reporting Year: 2005

Facility:	LLSWStore
Description:	Low Level Solid Waste Store

Storage part of facility **LLSWStore**

The following shows storage status for waste classes and SRS.

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

List SRS?	No
List UMMT?	No

Capacity:	
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
LLSWStore	not in list	0	No	No	No	No

Site (Structure) : ANSTO RWM

Country: AUSTRALIA

Reporting Year: 2005

Facility:	WTPF		
Description:	Waste treatment and packaging facility		
Processing part of facility	WTPF		
The following shows processing status for waste classes and SRS.			
Waste Class	Actual	Planned	
LILW-SL	No	No	
LILW-LL	No	No	
HLW	No	No	
Type:	Treatment, Conditioning		
Year opened:	0		

Site (Data) : ANSTO RWM

Stock of waste as at December 2002

Country: AUSTRALIA

Reporting Year: 2005

Site Name: ANSTO RWM

Full Name: ANSTO facility for Radioactive Waste Management

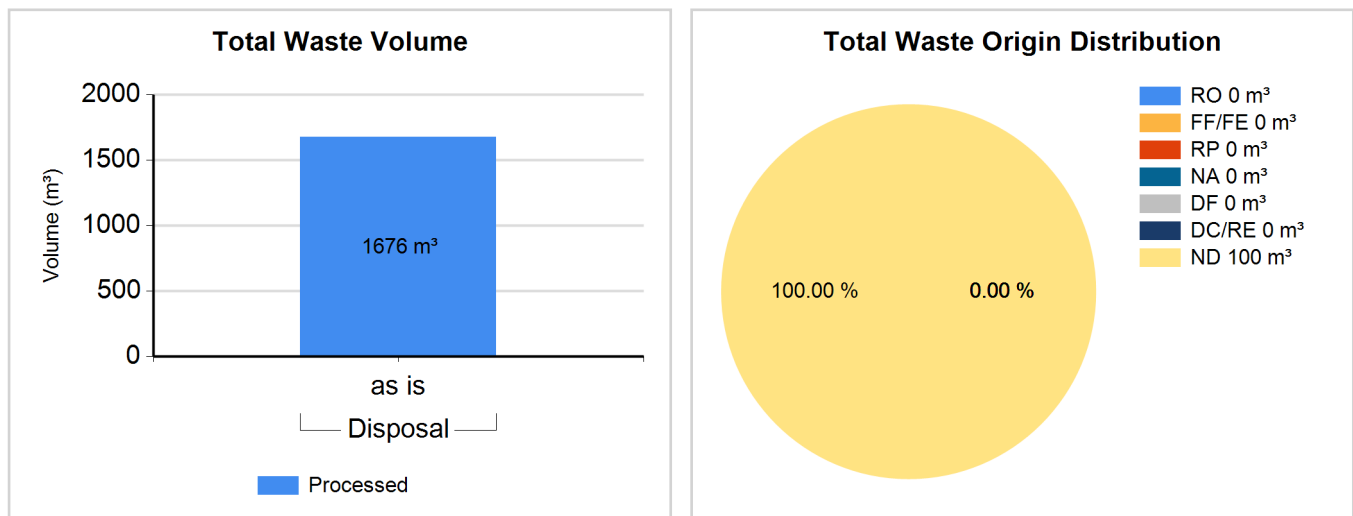
Inventory Reporting Date: December 2002 Waste Matrix Used: IAEA Def.

Comment # 12301: Site ANSTO RWM

ANSTO operates several facilities for managing liquid and solid radioactive waste arising from its routine operations. Different facilities are used depending on radiation levels and the method of ultimate disposal, where this can be anticipated. ANSTO's storage facilities are considered to be for medium-term storage. Some higher-activity waste undergoes treatment and conditioning during its period of management; for example, intermediate-level liquid waste is treated and solidified for interim storage.

Waste Inventory

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



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

Waste Class: LILW-SL

Waste Class Name	Location / Facility	Proc.	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LILW-SL	Disposal / Little FBG	Y	N	1676.000	1676.000	0.00	0.00	0.00	0.00	0.00	0.00	100.00

Comment # 12316: Waste Disposal facilities/Class LILW-SL/Site ANSTO

Prior to 1968, the then Australian Atomic Energy Commission used the Little Forest Burial Ground (an area near ANSTO's facilities) for disposal of low levels of radioactive waste and beryllium oxide. Approximately 1675 m³ of mixed radioactive waste, with an estimated activity of 150 GBq as at the time of its disposal, was disposed of at that site. This site is under ongoing ANSTO management and control.

Site (Data) : ANSTO RWM

Stock of waste as at December 2002

Country: AUSTRALIA

Reporting Year: 2005

Processing - Treatment method(s)

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

Comment # 12319: Waste Treatment on Site ANSTO RWM

Treatment methods used are not included in the Joint Convention Report

Processing - Conditioning method(s)**No data available.**

Site (Structure) : HIFAR

Country: AUSTRALIA

Reporting Year: 2005

Full Name: ANSTO facilities for the storage of spent fuel from the HIFAR reactor

Description:

Official Website:

License Holder(s): Australian Nuclear Science and Technology Organization (ANSTO) - Australian Government Jurisdiction

Comment # 12300: Site HIFAR

The Australian government is the only jurisdiction with a requirement to manage spent fuel resulting from the research reactor operations at Lucas Heights (ANSTO). ANSTO possesses the only facilities in Australia for managing spent fuel, as all the spent fuel produced in Australia comes from research reactors once operated, or currently operated, by ANSTO. The relevant regulatory authority, ARPANSA, has issued an operating licence to ANSTO for their spent fuel management facilities. Spent fuel is subject to a period of interim storage at ANSTO's facilities near Sydney, prior to further handling, such as transport offshore for long-term storage or reprocessing, depending on its destination.

Comment # 12314: Site HIFAR

HIFAR, a 10 MW research reactor, is the only operational reactor in Australia. Operating the reactor produces approximately 37 spent fuel elements each year. Once discharged from the reactor, the spent fuel elements are stored for several years under water, to allow much of the short-lived activity to decay. The fuel elements are then transferred to a dry storage facility, consisting of holes drilled into the bedrock and lined with stainless steel. Spent fuel from HIFAR has been shipped to the United States, to the BNFL facility at Dounreay, United Kingdom and to the COGEMA facility at La Hague, France. The waste arising from reprocessing of spent fuel elements shipped to the US under the FRR-SNF program will not be returned to Australia. It is a contractual requirement with BNFL and COGEMA that waste arising from reprocessing of spent fuel elements at their plants will be returned to Australia as long-lived intermediate-level waste.

Comment # 12315: Site HIFAR

Spent fuel is not considered as waste, so it was not included in the NEWMDB

Waste management facilities that are located at this site:

Facility:	Dry Store
Description:	Dry storage facility

Site (Structure) : HIFAR

Country: AUSTRALIA

Reporting Year: 2005

Storage part of facility**Dry Store**

The following shows storage status for waste classes and SRS.

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

List SRS?	No
List UMMT?	No

Capacity:	The facility is comprised of 50 storage holes with capacity for 1100 spent fuel elements.
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Dry Store	not in list	0	No	No	No	No

Comment **# 12299: Storage Facility Dry Store**

The dry storage facility was built in 1968. An improvement in the 1980's was the construction of a building completely enclosing the facility.

Site (Structure) : HIFAR

Country: AUSTRALIA

Reporting Year: 2005

Facility:	Load Pond					
Description:	Inspection and loading pond for spent fuel					
Storage part of facility		Load Pond				
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
LILW-SL	No	No				
LILW-LL	No	No				
HLW	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?
Pond	pool	0	No	No	No	No

Site (Structure) : HIFAR

Country: AUSTRALIA

Reporting Year: 2005

Facility:	Wet Store					
Description:	Ponds for cropping and wet storage of spent fuel					
Storage part of facility Wet Store						
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
LILW-SL	No	No				
LILW-LL	No	No				
HLW	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?
Wet Store	pool	0	No	No	No	No
Comment	# 12298: Storage Facility Wet Store					
	The facility is used for long term cooling of fresh spent fuel					

Site (Data) : HIFAR

Stock of waste as at December 2002

Country: AUSTRALIA

Reporting Year: 2005

Site Name: HIFAR

Full Name: ANSTO facilities for the storage of spent fuel from the HIFAR reactor

Inventory Reporting Date: December 2002 Waste Matrix Used: IAEA Def.

Comment **# 12300: Site HIFAR**

The Australian government is the only jurisdiction with a requirement to manage spent fuel resulting from the research reactor operations at Lucas Heights (ANSTO). ANSTO possesses the only facilities in Australia for managing spent fuel, as all the spent fuel produced in Australia comes from research reactors once operated, or currently operated, by ANSTO. The relevant regulatory authority, ARPANSA, has issued an operating licence to ANSTO for their spent fuel management facilities. Spent fuel is subject to a period of interim storage at ANSTO's facilities near Sydney, prior to further handling, such as transport offshore for long-term storage or reprocessing, depending on its destination.

Comment **# 12314: Site HIFAR**

HIFAR, a 10 MW research reactor, is the only operational reactor in Australia. Operating the reactor produces approximately 37 spent fuel elements each year. Once discharged from the reactor, the spent fuel elements are stored for several years under water, to allow much of the short-lived activity to decay. The fuel elements are then transferred to a dry storage facility, consisting of holes drilled into the bedrock and lined with stainless steel. Spent fuel from HIFAR has been shipped to the United States, to the BNFL facility at Dounreay, United Kingdom and to the COGEMA facility at La Hague, France. The waste arising from reprocessing of spent fuel elements shipped to the US under the FRR-SNF program will not be returned to Australia. It is a contractual requirement with BNFL and COGEMA that waste arising from reprocessing of spent fuel elements at their plants will be returned to Australia as long-lived intermediate-level waste.

Comment **# 12315: Site HIFAR**

Spent fuel is not considered as waste, so it was not included in the NEWMDB

No Waste Data to report.

Site (Structure) : National

Country: AUSTRALIA

Reporting Year: 2005

Full Name: This is not a real site. It was created in order to report the estimated waste volumes in storage and disposal facilities in the country. The waste volumes (at the national level) were obtained from the JC Report, October 2005

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	RWStore					
Description:	This site was created in order to report the waste inventories at a national level in the storages facilities in Australia					
Storage part of facility		RWStore				
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
LILW-SL	Yes	Yes				
LILW-LL	Yes	Yes				
HLW	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:						
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Stores	various	0	No	No	No	No

Site (Data) : National

Stock of waste as at December 2002

Country: AUSTRALIA

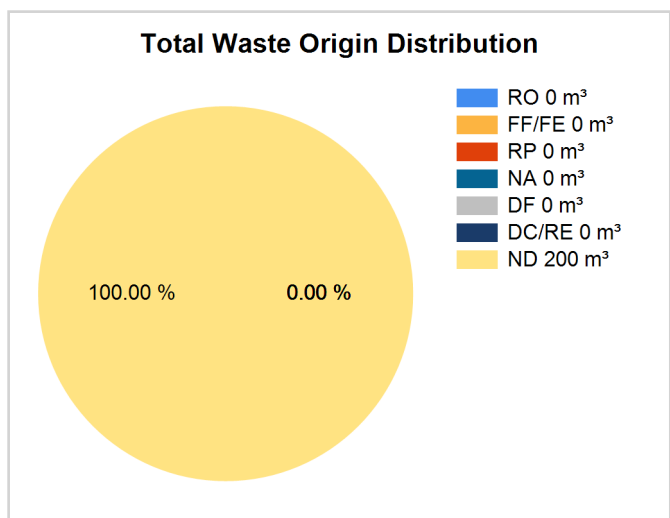
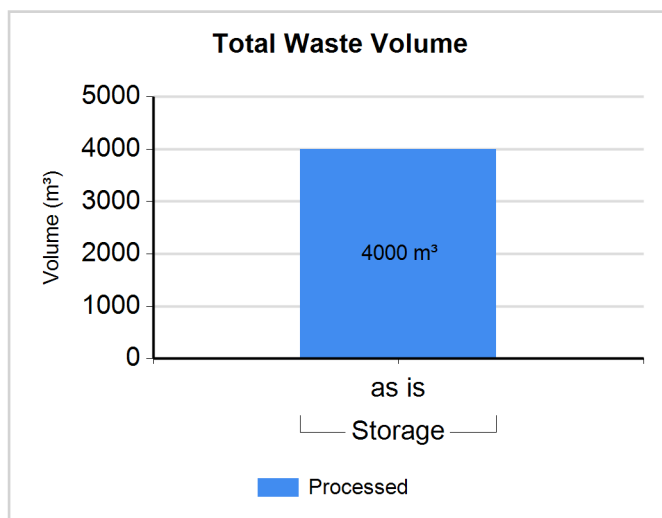
Reporting Year: 2005

Site Name: National

Full Name: This is not a real site. It was created in order to report the estimated waste volumes in storage and disposal facilities in the country. The waste volumes (at the national level) were obtained from the JC Report, October 2005

Inventory Reporting Date: December 2002**Waste Matrix Used:** IAEA Def.**Waste Inventory**

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



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

Waste Class: LILW-SL

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LILW-SL	Storage / RWStore	Y	N	3500.000	3500.000	0.00	0.00	0.00	0.00	0.00	0.00	100.00

Comment # 12312: Waste Storage facilities/Class LILW-SL/Site Nation

This is the total inventory for low-level and short-lived intermediate-level conditioned waste requiring disposal in Australia (in storage facilities, in 2002). This total is made up of the following volume approximations

- 2010 m3 of slightly contaminated soil from ore-processing research;
- 1320 m3 of operational waste stored at the ANSTO site;
- 160 m3 of miscellaneous waste including spent sealed sources used in gauges, smoke detectors, medical equipment and luminous signs; and
- 20 m3 of miscellaneous waste in interim storage at Woomera.

Waste Class: LILW-LL

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LILW-LL	Storage / RWStore	Y	N	500.000	500.000	0.00	0.00	0.00	0.00	0.00	0.00	100.00

Comment # 12313: Waste Storage facilities/Class LILW-LL/Site Nation

This is the estimated inventory of long-lived intermediate-level radioactive waste in the jurisdiction of the Australian government (reporting date 2001). Approximately 200 m3 of this is in the form of reactor target cans, ion-exchange columns, used control arms, aluminium end pieces and some solidified liquid waste. Approximately 165 m3 is historical waste in the form of thorium and uranium residues arising from mineral sands processing, and approximately 35 m3 is disused sources from medical and research equipment.

Site (Data) : National

Stock of waste as at December 2002

Country: AUSTRALIA

Reporting Year: 2005

Site (Structure) : NSW

Country: AUSTRALIA

Reporting Year: 2005

Full Name: Storage Facility in New South Wales

Description:

Official Website:

License Holder(s): Not Specify in the JC Report

Comment # 12305: Site NSW

There is a non-operational store for waste generated in New South Wales. Security arrangements at this store have been significantly upgraded over the last two years. The store is now a registered premise under the provisions of the Radiation Control Regulation 2003 (NSW), pursuant to Section 8 of the Radiation Control Act 1990 (NSW).

Waste management facilities that are located at this site:

Facility:	StorageFac					
Description:	Storage Facility in New South Wales					
Storage part of facility StorageFac						
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
LILW-SL	Yes	Yes				
LILW-LL	Yes	Yes				
HLW	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:						
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Store	not in list	0	No	No	No	No

Site (Data) : NSW

Stock of waste as at December 2002

Country: AUSTRALIA

Reporting Year: 2005

Site Name: NSW

Full Name: Storage Facility in New South Wales

Inventory Reporting Date: December 2002 Waste Matrix Used: IAEA Def.

Comment **# 12305: Site NSW**

There is a non-operational store for waste generated in New South Wales. Security arrangements at this store have been significantly upgraded over the last two years. The store is now a registered premise under the provisions of the Radiation Control Regulation 2003 (NSW), pursuant to Section 8 of the Radiation Control Act 1990 (NSW).

No Waste Data to report.

Site (Structure) : NT

Country: AUSTRALIA

Reporting Year: 2005

Full Name: Storages Facilities in the Northern Territory

Description:

Official Website:

License Holder(s): Royal Darwin Hospital / Mt Todd Mine and ERA Ranger Mine

Royal Darwin Hospital / Mt Todd Mine and ERA Ranger Mine

Comment # 12306: Site NT

The current storage facilities for radioactive waste are a secure room at Royal Darwin Hospital and a secure compound at Mt Todd Mine rehabilitation site, which are for the storage of waste generated in the Northern Territory. Waste storage facilities at the ERA Ranger Mine are a tailings dam, evaporation ponds, and solid waste disposal stockpiles.

Waste management facilities that are located at this site:

Facility:	Stores												
Description:	Storage Facilities in the Northern Territory												
<p>Storage part of facility Stores</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>LILW-SL</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>LILW-LL</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>HLW</td> <td>No</td> <td>No</td> </tr> </tbody> </table>		Waste Class	Actual	Planned	LILW-SL	Yes	Yes	LILW-LL	Yes	Yes	HLW	No	No
Waste Class	Actual	Planned											
LILW-SL	Yes	Yes											
LILW-LL	Yes	Yes											
HLW	No	No											
List SRS?	No												
List UMMT?	No												
Capacity:													
Types of Storage Units													
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?							
Stores	various	0	No	No	No	No							

Site (Data) : NT

Stock of waste as at December 2002

Country: AUSTRALIA

Reporting Year: 2005

Site Name: NT

Full Name: Storages Facilities in the Northern Territory

Inventory Reporting Date: December 2002 Waste Matrix Used: IAEA Def.

Comment **# 12306: Site NT**

The current storage facilities for radioactive waste are a secure room at Royal Darwin Hospital and a secure compound at Mt Todd Mine rehabilitation site, which are for the storage of waste generated in the Northern Territory. Waste storage facilities at the ERA Ranger Mine are a tailings dam, evaporation ponds, and solid waste disposal stockpiles.

No Waste Data to report.

Site (Structure) : Queensland

Country: AUSTRALIA

Reporting Year: 2005

Full Name: Storage Facility owned by the Queensland State Government

Description:

Official Website:

License Holder(s): Queensland's radiation regulatory authority

Comment # 12307: Site Queensland

Queensland's radioactive waste store is operated by Queensland's radiation regulatory authority under the scrutiny of the Radiation Advisory Council, an independent Ministerial Advisory Body, and the Management Advisory Committee, a public interface Committee which advises the Minister. The purpose of the store is to provide safe and secure storage for radioactive substances which have outlived their useful service and which are not able to be disposed of at this time. The facility is located in South East Queensland, in the Shire of Esk.

Waste management facilities that are located at this site:

Facility:	StorageFac					
Description:	Storage Facility Queensland					
Storage part of facility		StorageFac				
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
LILW-SL	Yes	Yes				
LILW-LL	Yes	Yes				
HLW	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:						
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Store	building	0	No	No	No	No

Site (Data) : Queensland

Stock of waste as at December 2002

Country: AUSTRALIA

Reporting Year: 2005

Site Name: Queensland

Full Name: Storage Facility owned by the Queensland State Government

Inventory Reporting Date: December 2002 Waste Matrix Used: IAEA Def.

Comment **# 12307: Site Queensland**

Queensland's radioactive waste store is operated by Queensland's radiation regulatory authority under the scrutiny of the Radiation Advisory Council, an independent Ministerial Advisory Body, and the Management Advisory Committee, a public interface Committee which advises the Minister. The purpose of the store is to provide safe and secure storage for radioactive substances which have outlived their useful service and which are not able to be disposed of at this time. The facility is located in South East Queensland, in the Shire of Esk.

No Waste Data to report.

Site (Structure) : SA

Country: AUSTRALIA

Reporting Year: 2005

Full Name: South Australia Radioactive Waste Management Facilities

Description:

Official Website:

License Holder(s): Not Specify in the JC Report

Comment # 12308: Site SA

There is a store for waste generated in South Australia.

Wastes from current mining operations and past practices include:

- Beverley Uranium Project: Evaporation ponds, a liquid waste re-injection well and a solid waste disposal pit.
- Honeymoon Uranium Project (not in operation): Evaporation pond, a liquid waste reinjection well and a solid waste storage area.
- Olympic Dam Uranium Project: Tailings dams, associated evaporation ponds and a solid waste disposal pit.
- Port Pirie Plant: Uranium and thorium tailings dams.
- Radium Hill Mine: Tailings dam incorporating a low-level waste repository.

Waste management facilities that are located at this site:

Facility:	RWMF					
Description:	South Australia Waste Management Facilities					
Storage part of facility		RWMF				
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
LILW-SL	Yes	Yes				
LILW-LL	Yes	Yes				
HLW	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:						
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Facilities	various	0	No	No	No	No

Site (Data) : SA

Stock of waste as at December 2002

Country: AUSTRALIA

Reporting Year: 2005

Site Name: SA

Full Name: South Australia Radioactive Waste Management Facilities

Inventory Reporting Date: December 2002 Waste Matrix Used: IAEA Def.

Comment **# 12308: Site SA**

There is a store for waste generated in South Australia.

Wastes from current mining operations and past practices include:

- Beverley Uranium Project: Evaporation ponds, a liquid waste re-injection well and a solid waste disposal pit.
- Honeymoon Uranium Project (not in operation): Evaporation pond, a liquid waste reinjection well and a solid waste storage area.
- Olympic Dam Uranium Project: Tailings dams, associated evaporation ponds and a solid waste disposal pit.
- Port Pirie Plant: Uranium and thorium tailings dams.
- Radium Hill Mine: Tailings dam incorporating a low-level waste repository.

No Waste Data to report.

Site (Structure) : Tasmania

Country: AUSTRALIA

Reporting Year: 2005

Full Name: Storage Facility in Tasmania

Description:

Official Website:

License Holder(s): Not Specify in the JC Report

Waste management facilities that are located at this site:

Facility:	StorageFac					
Description:	Storage Facilities in Tasmania					
Storage part of facility						
StorageFac						
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
LILW-SL	Yes	Yes				
LILW-LL	Yes	Yes				
HLW	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:						
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Stores	various	0	No	No	No	No

Site (Data) : Tasmania

Stock of waste as at December 2002

Country: AUSTRALIA

Reporting Year: 2005

Site Name: Tasmania

Full Name: Storage Facility in Tasmania

Inventory Reporting Date: December 2002

Waste Matrix Used: IAEA Def.

No Waste Data to report.

Site (Structure) : WA

Country: AUSTRALIA

Reporting Year: 2005

Full Name: Western Australia Waste Management Facilities

Description:

Official Website:

License Holder(s): Radiation Health Branches (operates the radioactive waste storage) / Department of Housing and Works (operates the Mt Walton East Intractable Waste Disposal Facility)
 Radiation Health Branches (operates the radioactive waste storage) / Department of Housing and Works (operates the Mt Walton East Intractable Waste Disposal Facility)

Waste management facilities that are located at this site:

Facility:	Mt WaltonE
Description:	Mt Walton East Intractable Waste Disposal Facility

Disposal part of facility Mt WaltonE

The following shows disposal status for waste classes and SRS.

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

List SRS?	No
List UMMT?	No

Type:	engineered near surface
Facility is modular?	No

Depth (m):		Host medium:	crystalline rock (other)
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Phase Name	Start Year	End Year	Estimate
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Site (Structure) : WA

Country: AUSTRALIA

Reporting Year: 2005

Comment **# 12310: Disposal Facility Mt WaltonE**

Western Australia has the Mt Walton East Intractable Waste Disposal Facility for the permanent disposal of intractable (chemical and radiological) waste generated within Western Australia. This facility lies about 75km north-east of Koolyanobbing and approximately 53km north of Jaurdi Station homestead. Access to the site is by a 100km dedicated unsurfaced road that extends northward from the Boorabbin siding on Great Eastern Highway. It is located on land within the Shire of Coolgardie. The main purpose of the facility is as a permanent disposal site for intractable (chemical as well as radioactive) waste generated within Western Australia. It is a site of 'last resort' and the applicants must demonstrate to the site operator (the Department of Housing and Works) that other avenues of waste disposal/management have been attempted prior to applying for disposal at the site.

Site (Structure) : WA

Country: AUSTRALIA

Reporting Year: 2005

Facility:	QEII Store
Description:	Radioactive waste storage at the Queen Elizabeth II (QEII) Medical Centre

Storage part of facility**QEII Store**

The following shows storage status for waste classes and SRS.

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

List SRS?	No
List UMMT?	No

Capacity:	
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Building	building	0	No	No	No	No
Central	well	0	No	No	No	No

Comment **# 12309: Storage Facility QEII Store**

The Radiation Health Branch operates a radioactive waste store. The store is situated on the Queen Elizabeth II (QEII) Medical Centre Site. The store's main purpose is for interim storage of radioactive substances that have no further use prior to disposal at the Mt Walton East site. The freestanding store has been constructed with a vented central well for storage of higher activity sources as well as a vented central area for storage of sources that do not require additional shielding. The stores construction is a concrete floor with double brick walls. The store is located within a fenced locked compound and is linked to the 24 hour security of the QEII Medical Centre site.

Site (Data) : WA

Stock of waste as at December 2002

Country: AUSTRALIA

Reporting Year: 2005

Site Name: WA

Full Name: Western Australia Waste Management Facilities

Inventory Reporting Date: December 2002 Waste Matrix Used: IAEA Def.

No Waste Data to report.

Regulators

Country: AUSTRALIA

Reporting Year: 2005

Name:	ARPANSA
Full Name:	Australian Radiation Protection and Nuclear Safety Agency (ARPANSA)
Divison:	
City or Town:	Commonwealth of Australia (Australian Government)
Main Website:	

Comment

12293: Regulators

Australia is a federation of 6 States and 2 self-governing Territories. The Constitution of Australia unites the States and Territories in a federal Commonwealth under the name of the Commonwealth of Australia (also known, and referred to in this National Report as, the Australian Government) which forms the 9th jurisdiction. Each jurisdiction has in force an Act of Parliament establishing a framework for regulating the safety of radioactive waste management and, in the case of the Australian government, the safety of spent fuel management. Each Act establishes a licensing system for the management of radioactive material and, in the case of the Australian government, spent fuel, a regulatory authority, inspection and enforcement provisions and authorises the making of safety standards in the jurisdiction that enacted the legislation. Each jurisdiction has taken the necessary administrative steps to enable the regulatory body to achieve functions allocated to it under the enabling legislation. While Australia consists of 9 legally separate jurisdictions for the purposes of regulating the safety of radioactive waste and spent fuel management, the jurisdictions are working together to develop and implement a uniform national set of policies and practices in radiation protection and nuclear safety.

Name:	DepEnvCons
Full Name:	Department of Environment and Conservation, previously known as the Environment Protection Authority
Divison:	
City or Town:	New South Wales
Main Website:	

Name:	Dep Health
Full Name:	Department of Health
Divison:	
City or Town:	Queensland
Main Website:	

Name:	EnvProAuth
Full Name:	Environment Protection Authority
Divison:	
City or Town:	South Australia
Main Website:	

Regulators

Country: AUSTRALIA

Reporting Year: 2005

Name:	DHHS
Full Name:	Department of Health and Human Services
Divison:	
City or Town:	Tasmania
Main Website:	

Name:	DepHumSer
Full Name:	Department of Human Services
Divison:	
City or Town:	Victoria
Main Website:	

Name:	RadCouncil
Full Name:	Radiological Council
Divison:	
City or Town:	Western Australia
Main Website:	

Name:	ACT RC
Full Name:	Australian Capital Territory Radiation Council
Divison:	
City or Town:	Australian Capital Territory
Main Website:	

Name:	DHCS
Full Name:	Department of Health and Community Services
Divison:	
City or Town:	Northern Territory
Main Website:	

Regulations / Laws

Country: AUSTRALIA

Reporting Year: 2005

Name:	ARPNS		
Title or Name:	Australian Radiation Protection and Nuclear Safety Act		
Reference Number:			
Date Promulgated or Proclaimed:	1/1/1998		Law

Comment **# 12294: Regulations and Laws**

The Annex F of the Australian National report to the Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management contains a reference to national laws, regulations, requirements and guidance documents.

Future Outlook

Country: AUSTRALIA

Reporting Year: 2005

Data not available.

Country: AUSTRALIA

Reporting Year: 2005

Future Outlook

Country: AUSTRALIA

Reporting Year: 2005

Data not available.

Future Outlook

Country: AUSTRALIA

Reporting Year: 2005

Data not available.

Future Outlook

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Data not available.

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Data not available.