



**Country Waste Profile Report for
GERMANY
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: GERMANY

Reporting Year: 2007

Waste Class Matrix: **IAEA Def.**

This country does use the IAEA Scheme: No

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

Waste Class Matrix: **GER**

Description: NHGW = negligible heat generating waste
 HGW = heat-generating waste
 The percentages in the matrix are based upon waste characteristics including radionuclide inventory and estimated annual arisings provided by the waste generators (Internal BfS-report ET-IB-52). The characteristics were compared with the limits for long lived nuclides and heat generation specified for the IAEA's waste classification scheme.

Waste Class Name	Distribution %		
	LILW-SL	LILW-LL	HLW
NHGW	90.0	10.0	0.0
HGW	0.0	0.0	100.0

Comment **# 255: waste-classification**

According to repository-relevant aspects all radioactive waste produced is basically classified in waste with negligible heat generation (NHGW) and heat-generating waste (HGW). NHGW is defined in the "guideline concerning the controlling of radioactive waste with negligible heat generation that do not have to be delivered to a federal state collecting depot" [1] as waste to be disposed of in the planned Konrad repository. I.e. the radionuclide inventory of NHGW is limited by the Konrad waste acceptance requirements [2]. Radioactive waste exceeding these limits (i.e. spent fuel and radioactive waste from reprocessing of spent fuel) is considered HGW.

[1] "Bekanntmachung der Richtlinie zur Kontrolle radioaktiver Abfälle mit vernachlässigbarer Wärmeentwicklung, die nicht an eine Landessammelstelle abgeliefert werden vom 16. Januar 1989", Bundesanzeiger 41 (1989) no. 63a, p. 1-12

[2] P. Brennecke, "Anforderungen an endzulagernde radioaktive Abfälle (Endlagerungsbedingungen, Stand: Dezember 1995) - Schachtanlage Konrad -", Interner BfS-Bericht ET-IB-79, Bundesamt für Strahlenschutz, Salzgitter (1995)

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

Waste Classification Schemes

Country: GERMANY

Reporting Year: 2007

This country uses the following definitions:

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

Comment **# 12227: Definitions for Unprocessed Waste and Processed W**

Germany usually uses the term "conditioned " for waste that needs no more physical or chemical treatment for disposal.

Groups Overview

Country: GERMANY

Reporting Year: 2007

Reporting Group:	Disposal
Inventory Reporting Date:	December 2007
Waste Matrix Used:	GER
Description:	

Site Name	Facility Name	Facilities Defined	
Gorleben	Gorleben	storage	disposal
Konrad	Konrad		disposal
Morsleben	ERAM		disposal

Reporting Group:	Industrial
Inventory Reporting Date:	December 2007
Waste Matrix Used:	GER
Description:	

Site Name	Facility Name	Facilities Defined	
GNS-DUI	GNS-DU	processing	
Hanau	Nukem	storage	
	Siemens	storage	
Others	Industry	storage	
Sum	Sum data	storage	

Reporting Group:	LSSt
Inventory Reporting Date:	December 2007
Waste Matrix Used:	GER
Description:	

Site Name	Facility Name	Facilities Defined	
lsst	GRB	storage	
	LSSt	storage	
Sum	Sum data	storage	

Groups Overview

Country: GERMANY

Reporting Year: 2007

Reporting Group:	NPP
Inventory Reporting Date:	December 2007
Waste Matrix Used:	GER
Description:	

Site Name	Facility Name	Facilities Defined		
Greifswald	ZLN		storage	
	ZLN	processing		
KKU	KKU		storage	
NPPs	NPP		storage	
Sum	Sum data		storage	

Reporting Group:	Other
Inventory Reporting Date:	December 2007
Waste Matrix Used:	GER
Description:	

Site Name	Facility Name	Facilities Defined		
Other	Other		storage	

Reporting Group:	Research
Inventory Reporting Date:	December 2007
Waste Matrix Used:	GER
Description:	

Site Name	Facility Name	Facilities Defined		
FZJ	FZJ	processing		
	FZJ		storage	
FZK	FZK	processing		
	FZK		storage	
Other	Research		storage	
Rosendorf	VKTA		storage	
Sum	Sum Data		storage	

Site (Structure) : Gorleben

Country: GERMANY

Reporting Year: 2007

Full Name: Gorleben

Location: Gorlebe, loxer saxony

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Site (Structure) : Gorleben

Country: GERMANY

Reporting Year: 2007

Facility:	Gorleben		
Description:	Storage facility for NHGW (ALG) and HGW (TBLG) in Gorleben Disposal facility: Gorleben salt dome; since 2000 interruption of investigations for 3 to 10 years		
Storage part of facility			
The following shows storage status for waste classes and SRS.			
Waste Class	Actual	Planned	
NHGW	No	No	
HGW	No	No	
List SRS?	#Error		
List UMMT?	#Error		
Capacity:			
Disposal part of facility			
The following shows disposal status for waste classes and SRS.			
Waste Class	Actual	Planned	
NHGW	No	No	
HGW	No	No	
List SRS?	#Error		
List UMMT?	#Error		
Type:			
Facility is modular?	#Error		
Depth (m):		Host medium:	
Phase Name	Start Year	End Year	Estimate

Site (Data) : Gorleben

Stock of waste as at December 2007

Country: GERMANY

Reporting Year: 2007

Site Name: Gorleben

Full Name: Gorleben

Inventory Reporting Date: December 2007

Waste Matrix Used: GER

No Waste Data to report.

Site (Structure) : Konrad

Country: GERMANY

Reporting Year: 2007

Full Name:

Location: Salzgitter

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Site (Structure) : Konrad

Country: GERMANY

Reporting Year: 2007

Facility:	Konrad
Description:	Repository for NHGW Konrad

Disposal part of facility Konrad

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
NHGW	No	Yes
HGW	No	No

List SRS?	No
List UMMT?	No

Type:	geological (cavern)		
Facility is modular?	Yes		
Capacity existing (m3):	0	Capacity planned (m3):	303000

Depth (m):	800 - 1300	Host medium:	sedimentary (other)
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Phase Name	Start Year	End Year	Estimate
planning and/or concept assessment	1976	1982	False
site selection	1975	1975	False
design	1982	1990	False
construction	2008	2013	True
commissioning	2013		True
operation	2013	2043	True
closure	2043		True
EVENT: operating license granted	2007		False

Attachment **#1399: Disposal Facility**
konrad.jpg

Site (Structure) : Morsleben

Country: GERMANY

Reporting Year: 2007

Full Name: ERAM

Location: Morsleben

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Site (Structure) : Morsleben

Country: GERMANY

Reporting Year: 2007

Facility:	ERAM
Description:	Repository for radioactive waste Morsleben

Disposal part of facility ERAM

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
NHGW	Yes	No
HGW	No	No

List SRS?	No
List UMMT?	No

Type:	geological (cavern)		
Facility is modular?	No		
Capacity existing (m3):	55000	Capacity planned (m3):	55000

Depth (m):	500	Host medium:	salt dome
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Phase Name	Start Year	End Year	Estimate
planning and/or concept assessment	1967	1970	False
site selection	1967	1970	False
design	1970	1983	False
construction	1970	1983	False
commissioning	1970	1986	False
operation	1971	1998	False
closure	2010	2022	True

Site (Data) : Morsleben

Stock of waste as at December 2007

Country: GERMANY

Reporting Year: 2007

Site Name: Morsleben

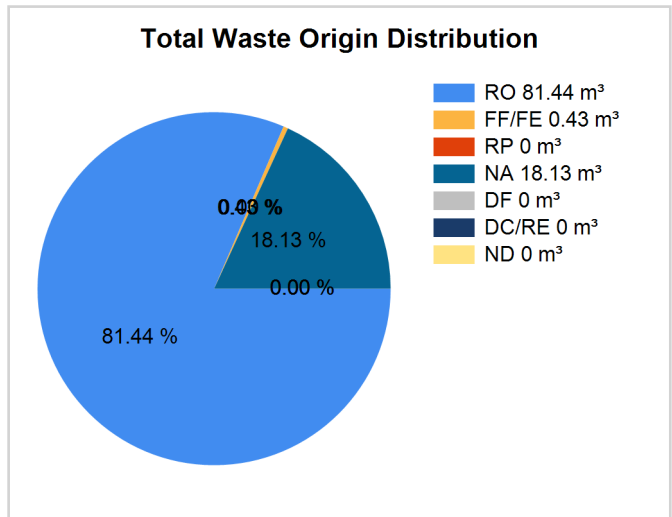
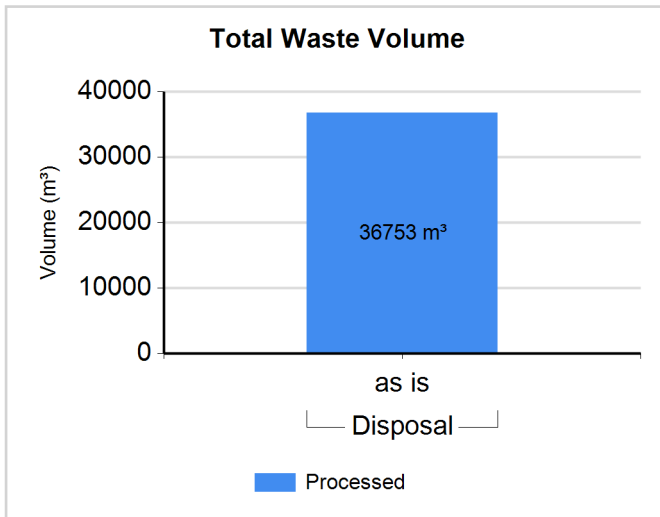
Full Name: ERAM

Inventory Reporting Date: December 2007

Waste Matrix Used: GER

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: NHGW

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
NHGW	Disposal	Y	N	36753.000	36753.000	81.44	0.43	0.00	18.13	0.00	0.00	0.00

Site (Structure) : GNS-DUI

Country: GERMANY

Reporting Year: 2007

Full Name: GNS Duisburg

Location: Duisburg

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	GNS-DU										
Description:	GNS processing facility for radioactive waste in Duisburg										
<p>Processing part of facility</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>NHGW</td> <td>No</td> <td>No</td> </tr> <tr> <td>HGW</td> <td>No</td> <td>No</td> </tr> </tbody> </table>			Waste Class	Actual	Planned	NHGW	No	No	HGW	No	No
Waste Class	Actual	Planned									
NHGW	No	No									
HGW	No	No									
Type:											
Year opened:											

Site (Structure) : Hanau

Country: GERMANY

Reporting Year: 2007

Full Name:

Location: Hanau

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	Nukem	
Description:	Nukem storage facility in Hanau	
Storage part of facility		
The following shows storage status for waste classes and SRS.		
Waste Class	Actual	Planned
NHGW	No	No
HGW	No	No
List SRS?	#Error	
List UMMT?	#Error	
Capacity:		

Site (Structure) : Hanau

Country: GERMANY

Reporting Year: 2007

Facility:	Siemens		
Description:	Storage facility for radioactive waste from the Siemens-MOX plant in Hanau		
Storage part of facility			
The following shows storage status for waste classes and SRS.			
Waste Class	Actual	Planned	
NHGW	No	No	
HGW	No	No	
List SRS?	#Error		
List UMMT?	#Error		
Capacity:			

Site (Structure) : Others

Country: GERMANY

Reporting Year: 2007

Full Name:

Location:

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	Industry	
Description:	Nuclear Industry	
Storage part of facility		
The following shows storage status for waste classes and SRS.		
Waste Class	Actual	Planned
NHGW	No	No
HGW	No	No
List SRS?	#Error	
List UMMT?	#Error	
Capacity:		

Site (Structure) : Sum

Country: GERMANY

Reporting Year: 2007

Full Name: All industrie

Location:

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	Sum data									
Description:	This is artificial facility just to report summary data for the group.									
<p>Storage part of facility</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>NHGW</td> <td>No</td> <td>No</td> </tr> <tr> <td>HGW</td> <td>No</td> <td>No</td> </tr> </tbody> </table>		Waste Class	Actual	Planned	NHGW	No	No	HGW	No	No
Waste Class	Actual	Planned								
NHGW	No	No								
HGW	No	No								
List SRS?	#Error									
List UMMT?	#Error									
Capacity:										

Site (Data) : Sum

Stock of waste as at December 2007

Country: GERMANY

Reporting Year: 2007

Site Name: Sum

Full Name: All industrie

Inventory Reporting Date: December 2007

Waste Matrix Used: GER

No Waste Data to report.

Site (Structure) : Isst

Country: GERMANY

Reporting Year: 2007

Full Name:

Location:

Description:

Official Website:

License Holder(s):

Comment **# 324: Processing Facilities**

In addition to the stationary waste processing facilities there are several mobile waste processing facilities available which can be transported and operated at the waste generator's site.

Comment **# 325: Operating Life of Storage Facilities**

Radioactive waste has to be stored until a final repository is available. The intended start of operation of a German repository for radioactive waste is approximately in the year 2030. The estimated Operating Life of the storage facilities is the time from facility construction to 2030.

Comment **# 326: LSSt**

The Federal States Collecting Depots combined in this group are:

Landessammelstelle Baden-Württemberg,
Landessammelstelle Bayern,
Landessammelstelle Berlin,
Landessammelstelle Hessen,
Landessammelstelle Niedersachsen,
Landessammelstelle Nordrhein-Westfalen,
Landessammelstelle Rheinland-Pfalz,
Landessammelstelle Saarland,
Landessammelstelle Sachsen,
Landessammelstelle Schleswig-Holstein,
Vorläufige Verwahrstelle Brandenburg

Comment **# 327: Industry**

The Nuclear Industry combined in this group are:

Advanced Nuclear Fuels GmbH,
Siemens AG - Unternehmensbereich Kraftwerk Union,
Urenco GmbH Gronau,
Urenco GmbH Jülich.

Nukem and Siemens Brennelementewerk Hanau/MOX are listed as separate facilities.

Site (Structure) : Isst

Country: GERMANY

Reporting Year: 2007

Comment # 328: NPP

The Nuclear Power Plants combined in this group are:

Kernkraftwerk Biblis A und B,
 Kernkraftwerk Brokdorf,
 Kernkraftwerk Brunsbüttel,
 Kernkraftwerk Emsland,
 Kernkraftwerk Grafenrheinfeld,
 Kernkraftwerk Grohnde,
 Kernkraftwerk Gundremmingen Blöcke B und C,
 Kernkraftwerk Isar 1,
 Kernkraftwerk Isar 2,
 Kernkraftwerk Krümmel,
 Kernkraftwerk Mülheim-Kärlich,
 Kernkraftwerk Neckarwestheim Blöcke 1 und 2,
 Kernkraftwerk Obrigheim,
 Kernkraftwerk Philippsburg Blöcke 1 und 2,
 Kernkraftwerk Stade,
 Kernkraftwerk Unterweser,
 Kernkraftwerk Greifswald,
 Kernkraftwerk Gundremmingen Block A,
 Kernkraftwerk Hamm-Uentrop,
 Kernkraftwerk Jülich,
 Kernkraftwerk Lingen,
 Kernkraftwerk Rheinsberg,
 Kernkraftwerk Würgassen,
 Kernkraftwerk-Betriebsgesellschaft KNK,
 Kernkraftwerk-Betriebsgesellschaft MZFR,
 Versuchsatomkraftwerk Kahl VAK

Comment # 329: Research

The Research Institutes combined in this group are:

Europäisches Institut für Transurane,
 Forschungs-und Meßreaktor Braunschweig,
 Forschungsreaktor Garching,
 Forschungszentrum Geesthacht GmbH,
 Hahn-Meitner-Institut Berlin GmbH,
 Institut für Radiochemie.

Forschungszentrum Jülich GmbH,
 Forschungszentrum Karlsruhe GmbH and
 VKT Rossendorf are listed as separate facilities.

Comment # 330: Other

Waste Generators combined in this group are:

Bundeswehr,
 AEAT Lehse

Comment # 331: HGW

Only liquid High Active Concentrate (as "unprocessed") and vitrified High Active Concentrate (as "processed") is included.
 Spent fuel and core scrap from light-water-reactors is not included.

Comment # 332: Reprocessing abroad

Spent fuel from German NPPs was/is shipped to France and Great Britain for reprocessing. The waste products will be reported when they are returned to Germany.

Comment # 333: Decommissioning waste

Decommissioning waste is reported together with operational waste of the respective origin

Waste management facilities that are located at this site:

Facility:	GRB
Description:	Storage facility in Mitterteich

Site (Structure) : Isst

Country: GERMANY

Reporting Year: 2007

Storage part of facility

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
NHGW	No	No
HGW	No	No

List SRS?	#Error
List UMMT?	#Error
Capacity:	

Site (Structure) : lsst

Country: GERMANY

Reporting Year: 2007

Facility:	LSSt		
Description:	Federal States Collecting Depots		
Storage part of facility			
The following shows storage status for waste classes and SRS.			
Waste Class	Actual	Planned	
NHGW	No	No	
HGW	No	No	
List SRS?	#Error		
List UMMT?	#Error		
Capacity:			
Comment	# 7561: year opened information		
Group of storage facilities, differing years of opening			

Site (Data) : Isst

Stock of waste as at December 2007

Country: GERMANY

Reporting Year: 2007

Site Name: Isst

Full Name:

Inventory Reporting Date: December 2007 Waste Matrix Used: GER

Comment **# 324: Processing Facilities**

In addition to the stationary waste processing facilities there are several mobile waste processing facilities available which can be transported and operated at the waste generator's site.

Comment **# 325: Operating Life of Storage Facilities**

Radioactive waste has to be stored until a final repository is available. The intended start of operation of a German repository for radioactive waste is approximately in the year 2030. The estimated Operating Life of the storage facilities is the time from facility construction to 2030.

Comment **# 326: LSSt**

The Federal States Collecting Depots combined in this group are:

Landessammelstelle Baden-Württemberg,
Landessammelstelle Bayern,
Landessammelstelle Berlin,
Landessammelstelle Hessen,
Landessammelstelle Niedersachsen,
Landessammelstelle Nordrhein-Westfalen,
Landessammelstelle Rheinland-Pfalz,
Landessammelstelle Saarland,
Landessammelstelle Sachsen,
Landessammelstelle Schleswig-Holstein,
Vorläufige Verwahrstelle Brandenburg

Comment **# 327: Industry**

The Nuclear Industry combined in this group are:

Advanced Nuclear Fuels GmbH,
Siemens AG - Unternehmensbereich Kraftwerk Union,
Urenco GmbH Gronau,
Urenco GmbH Jülich.

Nukem and Siemens Brennelementewerk Hanau/MOX are listed as separate facilities.

Comment **# 328: NPP**

The Nuclear Power Plants combined in this group are:

Kernkraftwerk Biblis A und B,
Kernkraftwerk Brokdorf,
Kernkraftwerk Brunsbüttel,
Kernkraftwerk Emsland,
Kernkraftwerk Grafenrheinfeld,
Kernkraftwerk Grohnde,
Kernkraftwerk Gundremmingen Blöcke B und C,
Kernkraftwerk Isar 1,
Kernkraftwerk Isar 2,
Kernkraftwerk Krümmel,
Kernkraftwerk Mülheim-Kärlich,
Kernkraftwerk Neckarwestheim Blöcke 1 und 2,
Kernkraftwerk Obrigheim,
Kernkraftwerk Philippsburg Blöcke 1 und 2,
Kernkraftwerk Stade,
Kernkraftwerk Unterweser,
Kernkraftwerk Greifswald,
Kernkraftwerk Gundremmingen Block A,
Kernkraftwerk Hamm-Uentrop,
Kernkraftwerk Jülich,
Kernkraftwerk Lingen,
Kernkraftwerk Rheinsberg,
Kernkraftwerk Würgassen,
Kernkraftwerk-Betriebsgesellschaft KNK,
Kernkraftwerk-Betriebsgesellschaft MZFR,
Versuchsatomkraftwerk Kahl VAK

Site (Data) : Isst

Stock of waste as at December 2007

Country: GERMANY

Reporting Year: 2007

Comment # 329: Research

The Research Institutes combined in this group are:
Europäisches Institut für Transurane,
Forschungs-und Meßreaktor Braunschweig,
Forschungsreaktor Garching,
Forschungszentrum Geesthacht GmbH,
Hahn-Meitner-Institut Berlin GmbH,
Institut für Radiochemie.

Forschungszentrum Jülich GmbH,
Forschungszentrum Karlsruhe GmbH and
VKT Rossendorf are listed as separate facilities.

Comment # 330: Other

Waste Generators combined in this group are:
Bundeswehr,
AEAT Lehse

Comment # 331: HGW

Only liquid High Active Concentrate (as "unprocessed") and vitrified High Active Concentrate (as "processed") is included.
Spent fuel and core scrap from light-water-reactors is not included.

Comment # 332: Reprocessing abroad

Spent fuel from German NPPs was/is shipped to France and Great Britain for reprocessing. The waste products will be reported when they are returned to Germany.

Comment # 333: Decommissioning waste

Decommissioning waste is reported together with operational waste of the respective origin

No Waste Data to report.

Site (Structure) : Sum

Country: GERMANY

Reporting Year: 2007

Full Name: All State collecting depots

Location:

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	Sum data	
Description:		
Storage part of facility		
The following shows storage status for waste classes and SRS.		
Waste Class	Actual	Planned
NHGW	No	No
HGW	No	No
List SRS?	#Error	
List UMMT?	#Error	
Capacity:		

Site (Data) : Sum

Stock of waste as at December 2007

Country: GERMANY

Reporting Year: 2007

Site Name: Sum

Full Name: All State collecting depots

Inventory Reporting Date: December 2007

Waste Matrix Used: GER

No Waste Data to report.

Site (Structure) : Greifswald

Country: GERMANY

Reporting Year: 2007

Full Name:

Location:

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	ZLN										
Description:	Processing facility for radioactive waste in the storage facility north (ZLN)										
<p>Processing part of facility</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>NHGW</td> <td>No</td> <td>No</td> </tr> <tr> <td>HGW</td> <td>No</td> <td>No</td> </tr> </tbody> </table>			Waste Class	Actual	Planned	NHGW	No	No	HGW	No	No
Waste Class	Actual	Planned									
NHGW	No	No									
HGW	No	No									
Type:											
Year opened:											

Site (Structure) : Greifswald

Country: GERMANY

Reporting Year: 2007

Facility:	ZLN	
Description:	Storage facility north in Greifswald for radioactive waste from the NPPs Greifswald and Rheinsberg	
Storage part of facility		
The following shows storage status for waste classes and SRS.		
Waste Class	Actual	Planned
NHGW	No	No
HGW	No	No
List SRS?	#Error	
List UMMT?	#Error	
Capacity:		

Site (Structure) : KKU

Country: GERMANY

Reporting Year: 2007

Full Name: Unterweser

Location: Stade

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	KKU	
Description:	Storage facility for NHGW from the NPPs Stade and Unterweser	
Storage part of facility		
The following shows storage status for waste classes and SRS.		
Waste Class	Actual	Planned
NHGW	No	No
HGW	No	No
List SRS?	#Error	
List UMMT?	#Error	
Capacity:		

Site (Structure) : NPPs

Country: GERMANY

Reporting Year: 2007

Full Name: storage at single NPPs

Location:

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	NPP	
Description:	Storage at Nuclear Power Plants	
Storage part of facility		
The following shows storage status for waste classes and SRS.		
Waste Class	Actual	Planned
NHGW	No	No
HGW	No	No
List SRS?	#Error	
List UMMT?	#Error	
Capacity:		

Site (Structure) : Sum

Country: GERMANY

Reporting Year: 2007

Full Name:

Location:

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	Sum data	
Description:		
Storage part of facility		
The following shows storage status for waste classes and SRS.		
Waste Class	Actual	Planned
NHGW	No	No
HGW	No	No
List SRS?	#Error	
List UMMT?	#Error	
Capacity:		

Site (Data) : Sum

Stock of waste as at December 2007

Country: GERMANY

Reporting Year: 2007

Site Name: Sum

Full Name:

Inventory Reporting Date: December 2007

Waste Matrix Used: GER

No Waste Data to report.

Site (Structure) : Other

Country: GERMANY

Reporting Year: 2007

Full Name:

Location:

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	Other	
Description:	Other waste generators	
Storage part of facility		
The following shows storage status for waste classes and SRS.		
Waste Class	Actual	Planned
NHGW	No	No
HGW	No	No
List SRS?	#Error	
List UMMT?	#Error	
Capacity:		

Site (Data) : Other

Stock of waste as at December 2007

Country: GERMANY

Reporting Year: 2007

Site Name: Other

Full Name:

Inventory Reporting Date: December 2007

Waste Matrix Used: GER

No Waste Data to report.

Site (Structure) : FZJ

Country: GERMANY

Reporting Year: 2007

Full Name: Forschungszentrum Juelich

Location:

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	FZJ	
Description:	Research Center Juelich	
Processing part of facility		
The following shows processing status for waste classes and SRS.		
Waste Class	Actual	Planned
NHGW	No	No
HGW	No	No
Type:		
Year opened:		

Site (Structure) : FZJ

Country: GERMANY

Reporting Year: 2007

Facility:	FZJ									
Description:	Storage facility in the research center Juelich									
Storage part of facility										
The following shows storage 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>NHGW</td><td>No</td><td>No</td></tr><tr><td>HGW</td><td>No</td><td>No</td></tr></tbody></table>	Waste Class	Actual	Planned	NHGW	No	No	HGW	No	No	
Waste Class	Actual	Planned								
NHGW	No	No								
HGW	No	No								
List SRS?	#Error									
List UMMT?	#Error									
Capacity:										

Site (Structure) : FZK

Country: GERMANY

Reporting Year: 2007

Full Name: Forschungszentrum Karlsruhe

Location:

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	FZK									
Description:	Research Center Karlsruhe									
Processing part of facility										
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>NHGW</td><td>No</td><td>No</td></tr><tr><td>HGW</td><td>No</td><td>No</td></tr></tbody></table>	Waste Class	Actual	Planned	NHGW	No	No	HGW	No	No	
Waste Class	Actual	Planned								
NHGW	No	No								
HGW	No	No								
Type:										
Year opened:										

Site (Structure) : FZK

Country: GERMANY

Reporting Year: 2007

Facility:	FZK		
Description:	Storage facility in the research center Karlsruhe		
Storage part of facility			
The following shows storage status for waste classes and SRS.			
Waste Class	Actual	Planned	
NHGW	No	No	
HGW	No	No	
List SRS?	#Error		
List UMMT?	#Error		
Capacity:			

Site (Structure) : Other

Country: GERMANY

Reporting Year: 2007

Full Name:

Location:

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	Research	
Description:	Storage at Research Instituts	
Storage part of facility		
The following shows storage status for waste classes and SRS.		
Waste Class	Actual	Planned
NHGW	No	No
HGW	No	No
List SRS?	#Error	
List UMMT?	#Error	
Capacity:		

Site (Structure) : Rossendorf

Country: GERMANY

Reporting Year: 2007

Full Name: Forschungszentrum Rossendorf

Location:

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	VKTA	
Description:	Storage facility in the research center Rossendorf	
Storage part of facility		
The following shows storage status for waste classes and SRS.		
Waste Class	Actual	Planned
NHGW	No	No
HGW	No	No
List SRS?	#Error	
List UMMT?	#Error	
Capacity:		

Site (Structure) : Sum

Country: GERMANY

Reporting Year: 2007

Full Name:

Location:

Description:

Official Website:

License Holder(s):

Waste management facilities that are located at this site:

Facility:	Sum Data									
Description:										
<p>Storage part of facility</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>NHGW</td> <td>No</td> <td>No</td> </tr> <tr> <td>HGW</td> <td>No</td> <td>No</td> </tr> </tbody> </table>		Waste Class	Actual	Planned	NHGW	No	No	HGW	No	No
Waste Class	Actual	Planned								
NHGW	No	No								
HGW	No	No								
List SRS?	#Error									
List UMMT?	#Error									
Capacity:										

Site (Data) : Sum

Stock of waste as at December 2007

Country: GERMANY

Reporting Year: 2007

Site Name: Sum

Full Name:

Inventory Reporting Date: December 2007

Waste Matrix Used: GER

No Waste Data to report.

Site (Structure) : WAK

Country: GERMANY

Reporting Year: 2007

Full Name: Wiederaufarbeitungsanlage Karlsruhe

Location: Karlsruhe

Description:

Official Website:

License Holder(s): WAK

Waste management facilities that are located at this site:

Facility:	WAK Repro										
Description:	Reprocessing Facility										
<p>Processing part of facility</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>NHGW</td> <td>No</td> <td>No</td> </tr> <tr> <td>HGW</td> <td>No</td> <td>No</td> </tr> </tbody> </table>			Waste Class	Actual	Planned	NHGW	No	No	HGW	No	No
Waste Class	Actual	Planned									
NHGW	No	No									
HGW	No	No									
Type:											
Year opened:											

Site (Data) : WAK

Stock of waste as at December 2007

Country: GERMANY

Reporting Year: 2007

Site Name: WAK

Full Name: Wiederaufarbeitungsanlage Karlsruhe

Inventory Reporting Date: December 2007

Waste Matrix Used: GER

No Waste Data to report.

Regulators

Country: GERMANY

Reporting Year: 2007

Name:	BMU
Full Name:	Federal Minister for the Environment, Nature Conservation and Nuclear Safety (Bundesministerium fuer Umwelt, Naturschutz und Reaktorsicherheit - BMU)
Divison:	Department RS, Safety of Nuclear Installations, Radiological Protection, Nuclear Fuel Cycle and Waste Management
City or Town:	D-53048 Bonn
Main Website:	

Regulations / Laws

Country: GERMANY

Reporting Year: 2007

Name:	ATG		
Title or Name:	Atomic Energy Act (Atomgesetz)		
Reference Number:			
Date Promulgated or Proclaimed:	12/23/1959	Law	

Name:	StrISchV		
Title or Name:	Radiation Protection Ordinance (Strahlenschutzverordnung)		
Reference Number:			
Date Promulgated or Proclaimed:	7/20/2001	Regulation	

Name:	UVPG		
Title or Name:	Act on the Assessment of Environmental Impact (Gesetz über die Umweltverträglichkeitsprüfung)		
Reference Number:			
Date Promulgated or Proclaimed:	2/12/1990	Law	

Name:	BBergG		
Title or Name:	Federal Mining Act (Bundesberggesetz)		
Reference Number:			
Date Promulgated or Proclaimed:	8/13/1980	Law	

Name:	StrVG		
Title or Name:	Act on the Precautionary Protection of the Population against Radiation Exposure (Strahlenschutzvorsorgegesetz)		
Reference Number:			
Date Promulgated or Proclaimed:	12/19/1986	Law	

Future Outlook

Country: GERMANY

Reporting Year: 2007

Data not available.

Policies

Country: GERMANY

Reporting Year: 2007

National Systems

Policy		(Yes;Partially;No)
Q14	Has your Country implemented a national policy for radioactive waste management?	Yes
Strategies		(Yes;Partially;No)
Q15	Has your country developed strategies to implement a national policy?	Yes
Requirements		(Yes;Partially;No)
Q17	identified the parties involved in the different steps of radioactive waste management	Yes
Q18	specified a rational set of safety, radiological and environmental protection objectives	Yes
Q19	implemented a mechanism to identify existing and anticipated radioactive wastes	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	Complete
Q114	comply with legal requirements	Complete

Policies

Country: GERMANY

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"?	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

Policies

Country: GERMANY

Reporting Year: 2007

Disposal Facilities

Licensing		(Yes - All;Yes - Some;No)
Q53	Environmental Assessment (EA)	Yes - All
Q54	Environmental Impact Statement (EIS)	Yes - All
Q55	Performance Assessment (PA)	Yes - All
Q56	Quality Assurance (QA)	Yes - All
Q57	Safety Assessment (SA)	Yes - All
Q59	If Quality Assurance is part of your Country's current, waste disposal facility licensing policy, does the QA Program conform to international standards (such as the ISO9000 series)?	Yes - All
Operation		(Yes - All;Yes - Some;No)
Q60	Does your Country have formal, documented waste acceptance criteria for its operating or proposed disposal facilities?	Yes - All
Post-Closure		(Yes;No)
Q61	Does your Country have any written policies to address the maintenance of records that describe the design, location and inventory of waste disposal facilities?	Yes
Q62	If the answer to the previous question was YES, does your Country have any policies, laws or regulations that prescribe what records are to be maintained?	Yes
Q63	Does your Country have any written policies to address active institutional controls or passive institutional controls, such as monitoring or access restrictions?	No
Comment	# 334: Active Institutional Control	
	Germany does not plan to have an active institutional control period for its disposal facilities.	

Policies

Country: GERMANY

Reporting Year: 2007

Processing/Storage

Policies/Procedures		(Yes;No)
Q73	waste sorting/segregation	Yes
Q74	waste minimization	Yes
Q75	waste storage	Yes
Q76	processing and/or storing and/or disposing of nuclear fuel cycle waste separately from non-nuclear fuel cycle waste (also known as nuclear applications waste)	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?	Yes
Foreign		(Yes;No)
Q121	Has your country sent any wastes or spent fuel to another country for processing (reprocessing for fuel)?	Yes
Q122	Will some or all of the product(s) of processing/reprocessing be returned to your country?	Yes
Q123	Currently, are any of your country's wastes (processed or unprocessed, including the products of reprocessing) or spent fuel being stored in another country?	Yes
Q124	Has your country accepted any wastes or spent fuel from another country for processing (reprocessing for fuel)?	No

Country: GERMANY

Reporting Year: 2007

Spent/Disused SRS

Registration		(Yes;No)
Q84	Is there a national level registry?	No
Q87	Are there regional-level registries (one or more)?	Yes
Q88	If the answer was yes, are any registries used only for disused/spent SRS?	No
Q90	Are there local-level registries (one or more)?	Yes
Q115	If the answer was yes, are any registries used only for disused/spent SRS?	No

Procedures		(Yes;No)
Q91	Does your Country have documented procedures in place to ensure that sealed radioactive sources (SRS) are transferred to secure facilities in a timely manner after their user declares them to be spent?	Yes

Comment **# 321: Regulations for spent SRS**

There are no special regulations for spent/disused SRS in Germany. Once SRSs are declared spent/disused, they are treated as radioactive waste.

Agreements		(Yes;No)
Q93	Government to Government agreements	No
Q94	Government - Supplier agreements	No
Q95	Supplier-User agreements	Yes
Q97	Do any agreements include suppliers that are outside of your Country?	Yes

Release / Disposal		(Yes;No)
Q99	Does your Country have any regulations to free-release spent sealed radioactive sources (SRS)?	Yes
Q100	Has your Country disposed of spent SRS in existing disposal facilities for LILW or HLW waste?	Yes
Q101	Does your Country plan to dispose of spent SRS in existing or planned disposal facilities for LILW or HLW waste?	Yes
Q102	Has your Country implemented dedicated disposal facilities for spent SRS?	No
Q103	Does your Country have plans to implement dedicated disposal facilities for spent SRS?	No

Comment **# 322: Free Release of SRS**

There are no special regulations for free release of spent/disused SRSs in Germany. The regulations for free release of radioactive material are in force.

Policies

Country: GERMANY

Reporting Year: 2007

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

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) 2005

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

Policies

Country: GERMANY

Reporting Year: 2007

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
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Facilities**(Yes;No)**

Q119	Does Your Country have any nuclear fuel cycle facilities?	Yes
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Q120	Does Your Country have any nuclear applications facilities (non fuel cycle facilities)?	Yes
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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?	Yes - All
------	--	-----------

Q113	Does your Country require a time frame for the decommissioning of non-nuclear fuel cycle facilities once these facilities cease operation?	Yes - All
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Future Outlook

Country: GERMANY

Reporting Year: 2007

Data not available.

Future Outlook

Country: GERMANY

Reporting Year: 2007

Data not available.

Future Outlook

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Future Outlook

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