

## The Regulatory Infrastructure in NEA Member Countries

This document summarises the relevant regulatory information as of December 2009. The brochure [The Regulatory Function and Radioactive Waste Management: International Overview](#). NEA No. 6041, Paris, 2005, is the report for which these information were first collected and commented upon. The brochure is still valuable nowadays for the considerations it provides.

The tables make frequent use of acronyms. These are spelled out in this Annex at the end of the tables.

### Annex 1. The Regulatory Infrastructure in NEA Member Countries

Regulatory Element/Activity	Associated Bodies
	Australia
Policy	Australian Governments (Commonwealth, State, Territory) ARPANSA, RHC
Primary legislation	Australian Governments (Commonwealth, State, Territory)
Secondary legislation	Australian Governments (Commonwealth, State, Territory)
Advice to government	ARPANSA, ANSTO, DRET, ARPANSA, RHC
Standards	ARPANSA
Guidance	ARPANSA
Licensing (Disposal)	Australian Government regulatory bodies (Commonwealth, State, Territory) ARPANSA
Licensing (Health and safety)	Australian Government regulatory bodies (Commonwealth, State, Territory) ARPANSA
Licensing (Spatial planning/development)	Australian Government regulatory bodies (Commonwealth, State, Territory) DEWHA
Inspection/Monitoring	Australian Government regulatory bodies (Commonwealth, State, Territory) ARPANSA
Enforcement	Australian Government regulatory bodies (Commonwealth, State, Territory) ARPANSA
Appeals	Australian Governments (Commonwealth, State, Territory)
Public consultation	ARPANSA, DEWHA, DRET
R&D (Including industrial work)	ANSTO, ARPANSA Industry
Cost estimation (Including industrial work)	Australian Governments (Commonwealth, State, Territory) DRET, Industry
Transboundary shipment	Australian Government (Commonwealth)
Safeguards	ASNO

**Annex 1. The Regulatory Infrastructure in NEA Member Countries (Cont'd)**

<b>Regulatory Element/Activity</b>	<b>Associated Bodies</b>		
	<b>Belgium</b>	<b>Canada</b>	<b>Finland</b>
Policy	Government	Government (NRCan).	Government, MEE
Primary legislation	Parliament	Parliament	Parliament (laws)
Secondary legislation	Government (Royal Decree)	Government, CNSC.	Government (decrees)
Advice to government	FANC	NRCan, CNSC (Secretariat)	MEE
Standards	ONDRAF/NIRAS (Waste packaging) Government (safety)	CNSC, ECan	STUK
Guidance	FANC (safety)	CNSC, ECan	STUK
Licensing (Disposal)	FANC, MINT	CNSC	Government Parliament (veto) Municipality (veto)
Licensing (Health and safety)	FANC, MINT	CNSC	Government (de jure) STUK (de facto)
Licensing (Spatial planning/development)	Regions	CNSC, ECan, CEAA, Provincial Govt.	MoE (regional) Municipality (local)
Inspection/Monitoring	FANC	CNSC	STUK
Enforcement	FANC	CNSC	STUK
Public consultation	ONDRAF/NIRAS, FANC, local authorities	CNSC, NRCan.	MEE (EIA process)
R&D (Including industrial work)	ONDRAF/NIRAS, FANC, SCK.CEN, others	Industry, CNSC	Nuclear Industry's RDD KYT-programme STUK's support program
Cost estimation (Including industrial work)	ONDRAF/NIRAS	Industry	Nuclear Industry (estim.) MEE, STUK (review) SNWMF (fund manag.)
Transboundary shipment	FANC	CNSC (OIA)	MEE (export, import) STUK (transport lic.)
Safeguards	FANC	CNSC (OIA)	STUK

**Annex 1. The Regulatory Infrastructure in NEA Member Countries (Cont'd)**

<b>Regulatory Element/Activity</b>	<b>Associated Bodies</b>		
	<b>France</b>	<b>Germany</b>	<b>Hungary</b>
Policy	Government	Federal Government (BMU, BMBF, BMWI, BK)	Government (Minister for HAEA, other Ministers)
Primary legislation	Parliament	Parliament	Parliament
Secondary legislation	Government (MoI, MoE, MoH)	BMU	Government (Orders by the Government and various ministers)
Advice to government	OPECST, CNE, ASN and Civil Service Departments	ESK, SSK, BfS	HAEA, AECC
Standards	ASN, DSND (Defence)	BMU	Given in above Orders
Guidance	ASN, DSND (Defence)	BMU	Given in above Orders
Licensing (disposal)	Government (advised by ASN).	Länder licensing authorities	Parliament, NPHAMOS, HAEA + special authorities
Licensing (Health and safety)	Government (advised by ASN), local authorities	Länder licensing authorities	NPHAMOS, HAEA + special authorities
Licensing (Spatial planning/development)	Local authorities	Länder licensing authorities	Special authorities
Inspection/Monitoring	ASN, DSND (Defence)	Länder licensing authorities. BfS (final disposal)	NPHAMOS, HAEA + special authorities
Enforcement	ASN, DSND (Defence)	Länder licensing authorities	NPHAMOS, HAEA + special authorities
Public consultation	Prefect (public enquiry) CNDP in some cases	BMU	IENW
R&D (including industrial work)	Waste producers, ANDRA, CEA, IRSN	BfS, BMU, BMBF, BMWI, Industry, GRS, BGR, DBE, GSF, Universities etc.	PURAM
Cost estimation (including industrial work)	Waste producers /Andra/ Administrative Authority	BfS, Industry ,BMF	PURAM (in agreement with HAEA and HEO) + approved by HAEA Minister
Transboundary shipment	ASN	Bundesausfuhramt	HAEA
Safeguards	DSND	BMWI	HAEA

**Annex 1. The Regulatory Infrastructure in NEA Member Countries (Cont'd)**

Regulatory Element/Activity	Associated Bodies		
	Italy	Japan	Korea, Rep. of
Policy	Government (MSE + other ministries)	Government (AEC)	Government
Primary legislation	Parliament.	Parliament (Diet)	Parliament
Secondary legislation	Government (Ministerial Decrees)	METI, MEXT, MLIT	Government
Advice to government	TCNSHP, Expert Group (Disposal site select.)	NSC, AEC (Advises Prime Minister)	NSC (Advises MOST Minister)
Standards	(Adopted from EC Directive by Legislative Decrees)	METI (NISA), MEXT, MLIT	MOST/ KINS
Guidance	MSE, ISPRA	NSC	MOST/KINS
Licensing (Disposal)	MSE (based on ISPRA judgements)	METI(NISA,ANRE), MEXT	MOST
Licensing (Health and safety)	MSE (based on ISPRA judgements.)	METI (NISA), MEXT	MOST, MOE
Licensing (Spatial planning/development)		MLIT	MOCIE, Local Community
Inspection/Monitoring	ISPRA	METI (NISA) /JNES, MEXT	MOST/KINS
Enforcement	ISPRA	METI (NISA)/JNES, MEXT	MOST/KINS
Public consultation		All regulatory bodies	Licensee
R&D (Including industrial work)	ISPRA, ENEA, SOGIN	NUMO, JAEA, JNES, RWMC, CRIEPI	KINS, KAERI, KHNP
Cost estimation (including industrial work)	SOGIN	METI (ANRE)	MOCIE
Transboundary shipment	ISPRA	MLIT, METI (NISA)	MOST
Safeguards	ISPRA	MEXT	MOST/KINAC

**Annex 1. The Regulatory Infrastructure in NEA Member Countries (Cont'd)**

<b>Regulatory Element/Activity</b>	<b>Associated Bodies</b>		
	<b>Norway</b>	<b>Slovak Republic</b>	<b>Spain (new)</b>
Policy	Government	Government	Government
Primary legislation	Parliament	Parliament	Parliament
Secondary legislation	Government (MoH)	All regulatory bodies	MITYC and other Ministerial departments
Advice to government	NRPA	MH SR, MZ SR, UJD SR	CSN
Standards	NRPA	Given in Regulations	Given in above Decrees and Orders CSN (technical standards on nuclear safety and radiological protection issues)
Guidance	NRPA	UJD SR	CSN
Licensing (Disposal)	Government, MoH (advised by NRPA)	Municipal Office (based on UJD SR + UVZ judgement)	MITYC (upon receipt of the CSN's safety and radiological protection report)
Licensing (Health and safety)	As above	As above	As above
Licensing (Spatial planning/development)		MZP SR, Municipal Office	MARM (general planning coordination and EIA) Municipalities (work authorizations)
Inspection/Monitoring	NRPA	UJD SR, UVZ	CSN
Enforcement	NRPA	UJD SR, UVZ.	CSN
Public consultation	All regulatory bodies, mainly NRPA, IFE	All regulatory bodies.	MITYC, MARM (SEA and EIA processes)
R&D (Including industrial work)	IFE	VUJE, UJD SR, waste producers	CSN, ENRESA, MICINN, CIEMAT and MITYC
Cost estimation (Including industrial work)	IFE, MoTI	MH SR	ENRESA (estimation), MITYC (review and approval)
Transboundary shipment		UJD SR, MZ SR	MITYC (advised by the CSN)
Safeguards	NRPA, IFE	UJD SR	MITYC and CSN

**Annex 1. The Regulatory Infrastructure in NEA Member Countries (Cont'd)**

<b>Regulatory Element/Activity</b>	<b>Associated Bodies</b>		
	<b>Sweden</b>	<b>Switzerland</b>	<b>United Kingdom</b>
Policy	Government	Federal Council (Federal government)	Government (DECC, SG, WAG, DoE(NI))
Primary legislation	Parliament	Parliament	UK Parliament, Scottish Parliament (SG), Welsh Assembly Government (WAG)
Secondary legislation	Government	Fed. Council, UVEK, BFE	DECC, DEFRA, SG, WAG, DoE(NI)
Advice to government	SNWC, SSM	ENSI, KNS, AGNEB	CoRWM, RCEP, COMARE, HPA
Standards	SSM	ENSI	EA, SEPA, NIEA, HSE, [NDA (RWMD) - waste packaging advice]
Guidance	SSM	ENSI	EA, SEPA, NIEA HSE, HPA
Licensing (Disposal)	Government on advice from SSM, Environmental Court	Federal Council (conducted by BFE, reviewed. by ENSI + KNS, in consultation with Cantons)	EA, SEPA, NIEA
Licensing (Health and safety)	As above	Federal Council (as above)	HSE(ND) on nuclear sites, HSE(FOD) on non-nuclear sites
Licensing (Spatial planning/development)	County administrative boards	General licence issued by Federal Council, (as above), + approved by Parliament.	Local authorities, DCLG, SG, WAG, DoE(NI)
Inspection/Monitoring	SSM	ENSI	EA, SEPA, NIEA (non-nuclear only), HSE(ND) (nuclear sites)
Enforcement	SSM	ENSI	EA, SEPA, NIEA, HSE(ND) (nuclear sites)
Public consultation	SSM	UVEK, BFE, ENSI	NDA, NDA (RWMD), Waste producers, EA, SEPA, NIEA, DECC, HSE(ND)
R&D (Including industrial work)	SKB (reviewed by SSM)	PSI, universities (funded by Federal State + Nagra)	NDA, NDA (RWMD), Waste producers, EA, SEPA, NIEA, DECC, HSE(ND)
Cost estimation (Including industrial work)	SKB/SSM/BNWF	NPP operators + Nagra reviewed by ENSI + FMC	NDA, waste producers,
Transboundary shipment	SSM	BFE reviewed by ENSI	EA, SEPA, NIEA
Safeguards	SSM	BFE	HSE

Annex 1. The Regulatory Infrastructure in NEA Member Countries (Cont'd)

Regulatory Element/Activity	Associated Bodies
	United States
Policy	Congress
Primary legislation	Congress
Secondary legislation	DOE, EPA, NRC
Advice to government	EPA, NRC, NWTRB, NAS, DOE
Standards	EPA, NRC, DOE
Guidance	NRC, EPA (for WIPP), DOE
Licensing (Disposal)	NRC (NMSS for HLW; FSME for LLW), EPA, States (for LLW)
Licensing (Health and safety)	NRC, States (for LLW)
Licensing (Spatial planning/development)	NRC, States (for LLW)
Inspection/Monitoring	NRC, EPA (for WIPP), DOE, States (for LLW)
Enforcement	NRC, EPA (for WIPP), States (for LLW)
Public consultation	NRC, DOE, EPA
R&D (Including industrial work)	NRC (confirmatory research)
Cost estimation (Including industrial work)	NRC, DOE, EPA, States (for LLW)
Transboundary shipment	NRC, DOT, States (for LLW)
Safeguards	NRC, DOE

**Note Re: National Bodies Involved in the Management and Regulation of Radioactive Waste  
(Information Up to Date to April 2010)**

**Australia**

ARPANSA	Australian Radiation Protection and Nuclear Safety Agency
ANSTO	Australian Nuclear Science and Technology Organisation
ASNO	Australian Safeguards and Non-Proliferation Office
DEWHA	Department of Environment, Water, Heritage and the Arts
DRET	Department of Resources, Energy and Tourism
RHC	Radiation Health Committee (intergovernmental committee)

**Belgium**

SCK•CEN	Belgian Nuclear Research Centre
FANC	Federal Agency for Nuclear Control
MINT	Ministry of Interior, responsible for Radiological Protection and Nuclear Safety
ONDRAF/NIRAS	Belgian Agency for Radioactive Waste and enriched fissile materials

**Canada**

CEAA	Canadian Environmental Assessment Agency
CNSC	Canadian Nuclear Safety Commission
CNSC (OIA)	CNSC Office of International Affairs
ECan	Environment Canada
NRCan	Natural Resources Canada

**Finland**

MTI	Ministry for Trade and Industry
SNWMF	State Nuclear Waste Management Fund
STUK	Radiation and Nuclear Safety Authority
VTT	Technical Research Centre of Finland
Posiva OY	Finnish Implementing Organisation for Spent Fuel Disposal

**France**

ANDRA	National Agency for Radioactive Waste Management
ASN	Autorité de sûreté nucléaire
CEA	Atomic Energy Commission
DSND	Delegate for Nuclear Safety and Radioprotection on Defence Sites
MoE	Ministry of Environment
MoH	Ministry of Health
MoI	Ministry of Industry
CNE	National Review Board
IRSN	Institute for Radioprotection and Nuclear Safety
OPECST	Parliamentary Office for Evaluation of Scientific and Technical Choices

**Germany**

BGR	Federal Institute for Geosciences and Natural Resources
BMBF	Federal Ministry of Education and Research
BMF	Federal Ministry of Finance
BMU	Federal Ministry of Environment, Nature Conservation and Nuclear Safety
BMWA	Federal Ministry of Economics and Labour
BMVBW	Federal Ministry of Transport, Building and Housing
BfS	Federal Office for Radiation Protection
DBE	German Company for Construction and Operation of Waste Repositories
GSF	National research centre for environment health
GRS	Gesellschaft für Anlagen- und Reaktorsicherheit mbH
KTA	Nuclear Safety Standards Commission
RSK	Reactor Safety Commission
SSK	Radiation Protection Commission

**Hungary**

AECC	Atomic Energy Co-ordination Council
HAEA	Hungarian Atomic Energy Authority
HEO	Hungarian Energy Office
MoH	Ministry of Health, Social and Family Affairs
PURAM	Public Agency for Radioactive Waste Management
RBEP	Regulatory Body for Environmental Protection
SPHAMOS	State Public Health and Medical Officer's Service

**Italy**

ISPRA	Institute for the Environmental Protection and Research
ENEA	Agency for New Technology, Energy and the Environment
MSE	Ministry of Economic Development
SOGIN	Society for Management of Nuclear Installations
TCNSHP	Technical Commission for Nuclear Safety and Health Protection

**Japan**

AEC	Atomic Energy Commission
CRIEPI	Central Research Institute of Electric Power Industry
JAEA	Japan Atomic Energy Agency
METI	Ministry of Economy, Trade and Industry
MEXT	Ministry of Education, Culture, Sports, Science and Technology
MLIT	Ministry of Land, Infrastructure and Transport
NSC	Nuclear Safety Commission
NUMO	Nuclear Waste Management Organization
RWMC	Radioactive Waste Management and Research Center

**Korea, Rep. of**

NSC	Nuclear Safety Commission
MOST	Ministry of Science and Technology
KINS	Korea Institute of Nuclear Safety
MOE	Ministry of Environment
MOCIE	Ministry of Commerce, Industry and Energy
KAERI	Korea Atomic Energy Research Institute
KHNP	Radiation Health Research Institute
KINAC	Korea Institute of Nuclear Nonproliferation and Control

**Norway**

MoE	Ministry of Environment
MoH	Ministry of Health
NRPA	Norwegian Radiation Protection Authority
MoTI	Ministry of Trade and Industry
IFE	Institute for Energy Technology

**Slovak Republic**

MH SR	Ministry of Economy
MZ SR	Ministry of Health
UJD SR	Nuclear Regulatory Authority
UVZ	Public Health Authority
MZP SR	Ministry of Environment
VUJE	Engineering, Design and Research Organization

**Spain**

CSN	Nuclear Safety Council
ENRESA	Spanish National Company for Radioactive Waste
MITYC	Ministry of Industry, Tourism and Commerce
MARM	Ministry of the Environment and Rural and Marine Environment
MICINN	Ministry of Science, Innovation
CIEMAT	Research Centre for Technology, Energy, and the Environment

## **Sweden**

BNWF	Board of the Nuclear Waste Fund
SNWC	Swedish National Council for Nuclear Waste
SKB	Swedish Nuclear Fuel and Waste Management Company
SSM	Swedish Radiation Safety Authority

## **Switzerland**

AGNEB	Interdepartmental Working Group on Radioactive Waste Management
BFE	Federal Office of Energy
FMC	Finance Management Consulting
HSK	Swiss Federal Nuclear Safety Inspectorate
KSA	Swiss Federal Nuclear Safety Commission
PSI	Paul Scherrer Institute
NAGRA	National Co-operative for the Disposal of Radioactive Waste
NPP	Nuclear Power Plant
UVEK	Federal Department for Environment, Transport, Energy, and Communication

## **United Kingdom**

COMARE	Committee on Medical Aspects of Radiation in the Environment
CoRWM	Committee on Radioactive Waste Management
DCLG	Department for Communities and Local Government
DECC	Department for Energy and Climate Change
DoE(NI)	Department of Environment (Northern Ireland)
EA	Environment Agency
HPA	Health Protection Agency
HSE	Health and Safety Executive
HSE(FOD)	HSE (Field Operations Directorate)
HSE(ND)	HSE (Nuclear Directorate)
NDA	Nuclear Decommissioning Authority
NDA(RWMD)	NDA Radioactive Waste Management Directorate
NIEA	Northern Ireland Environment Agency
RCEP	Royal Commission on Environmental Pollution
SEPA	Scottish Environment Protection Agency
SG	Scottish Government
WAG	Welsh Assembly Government

RWMAC (Radioactive Waste Management Advisory Committee) has been disbanded.

NuSAC (Nuclear Safety Advisory Committee) is in abeyance, HSE are considering options for the future.

## **United States of America**

DOE	Department of Energy
EPA	Environmental Protection Agency
NAS	National Academy of Sciences
NRC	Nuclear Regulatory Commission
NRC(NMSS)	NRC (Office of Nuclear Material Safety and Safeguards)
NRC(NSIR)	NRC (Office of Nuclear Security and Incident Response)
NRC(OPA)	NRC (Office of Public Affairs)
NRC(OSTP)	Office of State and Tribal Programs
NRC(RES)	NRC (Office of Nuclear Regulatory Research)
NWTRB	Nuclear Waste Technical Review Board
WIPP	Waste Isolation Pilot Plant (for defence TRU waste)