

Unclassified

NEA/RWM(2010)11/PROV

Organisation de Coopération et de Développement Économiques
Organisation for Economic Co-operation and Development

18-Jun-2010

English - Or. English

NUCLEAR ENERGY AGENCY
RADIOACTIVE WASTE MANAGEMENT COMMITTEE

Cancels & replaces the same document of 15 June 2010

**SELECTED INTERNATIONAL BIBLIOGRAPHY ON REVERSIBILITY AND RETRIEVABILITY TO
SUPPORT THE CURRENT NEA PROJECT**

The present list of references was assembled in support of the work of the NEA Project on Reversibility and Retrievability during the period May 2007 - May 2010 (<http://www.nea.fr/rwm/rr/>).

It is not intended to update this list any further. Most of the cited references are downloadable from the web as of May 2010. The reader should be aware however, that electronic availability may change with the progress of time.

The list is provided to others who may want to undertake their own analysis. Although not exhaustive, the list will constitute for them a useful start.

claudio.pescatore@oecd.org

JT03285879

Document complet disponible sur OLIS dans son format d'origine
Complete document available on OLIS in its original format



NEA/RWM(2010)11/PROV
Unclassified

English - Or. English

About this document

Reversibility and retrievability are not new concepts. In 1969, the United States National Academy of Sciences, in its report to Congress *Technology: Processes of Assessment and Choice*, observed that: “Other things being equal, those technological projects or developments should be favored that leave maximum room for maneuver in the future. The reversibility of an action should thus be counted as a major benefit; its irreversibility, a major cost.” One of the *Proposed Goals for Radioactive Waste Management*, in the NUREG-0300 document dated 1978 and prepared by a task group for presentation to the United States Nuclear Regulatory Commission, reads as follows: “If wastes are disposed on earth, their retrievability - assuming a technology as advanced as present - should not be precluded.”

Interest in reversibility and retrievability has been increasing in a number of national contexts. In fact, as can be seen in the detailed list of references in the annex, there have been discussions of the subjects in almost every national repository programme. The example may be given of the conclusions of the environmental assessment panel’s 1998 report on the original Canadian repository concept. The panel stated that there was not yet sufficient societal acceptance of the concept to proceed. Among the reasons given for this lack of acceptance was a desire on the part of many stakeholders for the concept to better accommodate monitoring, retrieval, recycling and the emergence of new technology. The eventual outcome of this panel report was the establishment of the Nuclear Waste Management Organization whose extensive consultations led to the formulation of the Adaptive Phased Management approach, in which reversibility of decision making and retrievability of spent fuel play important roles. Similarly, review, assessment and consultation have led in some other countries (notably France and the UK) to a greater programme focus on retrievability and reversibility.

The first major international publication on reversibility and retrievability was a result of a seminar on the subject held in Sweden in 1999. The proceedings of this seminar were documented in IAEA TECDOC-1187 (2000). The papers presented covered a wide range of topics related to the subject, and this report may still be considered the most comprehensive and detailed international reference on reversibility and retrievability. At approximately the same time, the European Commission sponsored a study called the *Concerted Action on the Retrievability of Long Lived Radioactive Waste in Deep Underground Repositories*; several of the contributors to this study presented papers at the Swedish conference. Subsequently, and based to a considerable extent on the work that had been represented in these two reports, the NEA published its summary report on the topic, *Reversibility and Retrievability in Geologic Disposal of Radioactive Waste – Reflections at the International Level* (NEA-3140, 2001), where the concept of reversibility was first established as a concept distinct from that of retrievability.

Subsequently, in addition to the various developments in individual national programmes, there have been two publications from international agencies that bear importantly on the topic. The first of these was a report entitled *Stepwise Approach to Decision Making for Long-term Radioactive Waste Management - Experience, Issues and Guiding Principles* (NEA-4429, 2004), which deals with topics related to adaptive, staged or stepwise decision making. The second was *Disposal of Radioactive Waste: Technological Implications for Retrievability* (IAEA NW-T-1.19, 2009), which focuses on technical issues related to retrievability.

The list of references in the Annex includes the above references as well as several others, including working papers supplied by their authors. This material was gathered in support of the work of the NEA Project on Reversibility and Retrievability during the period 2007- May 2010 (<http://www.nea.fr/rwm/rr/>). It is not intended to update this list any further. Most of the cited references are downloadable from the web as of May 2010. The reader should be aware however, that electronic availability may change with the progress of time.

The list is provided to others who may want to undertake their own analysis. Although not exhaustive, the list will constitute for them a useful start.

ANNEX:
SELECTED REFERENCES ON REVERSIBILITY AND RETRIEVABILITY TO SUPPORT THE
CURRENT NEA PROJECT
(Last update: May 25, 2010)

1.0 International documents

1.1 NEA

- 1.1.1.** Document title: Reversibility and Retrievability in Geologic Disposal of Radioactive Waste – Reflections at the International Level, NEA Report 3140, 20 November 2001
 Web address for download:
<http://www.nea.fr/html/rwm/reports/2001/nea3140.pdf>
<http://www.nea.fr/html/rwm/reports/2001/nea3448.pdf> (French)
<http://www.nea.fr/html/rwm/reports/2001/nea3968.pdf> (Swedish)
- 1.1.2.** Document title: The French R&D Programme on Deep Geological Disposal of Radioactive Waste - An International Peer Review of the "Dossier 2001 Argile", NEA Report 4432, 31 July 2003
 Web address for download:
<http://www.nea.fr/html/rwm/reports/2003/nea4432-andraeng.pdf>
<http://www.nea.fr/html/rwm/reports/2003/nea4588-andrafr.pdf> (French)
- 1.1.3.** Document title: Stepwise Approach to Decision Making for Long-term Radioactive Waste Management - Experience, Issues and Guiding Principles, NEA Report 4429, 13 September 2004
 Web address for download:
<http://www.nea.fr/html/rwm/reports/2004/nea4429-stepwise.pdf>
<http://www.nea.fr/html/rwm/reports/2005/nea6039-decision-etapes.pdf> (French)
- 1.1.4.** Document title: Safety of Geological Disposal of High-level and Long-lived Radioactive Waste in France - An International Peer Review of the "Dossier 2005 Argile" Concerning Disposal in the Callovo-Oxfordian Formation, NEA Report 6178, 17 July 2006
 Web address for download:
<http://www.nea.fr/html/rwm/reports/2006/nea6178-argile.pdf>
<http://www.nea.fr/html/rwm/reports/2006/nea6179-havl.pdf> (French)
- 1.1.5.** Document title: The Roles of Storage in the Management of Long-lived Radioactive Waste – Practices and Potentialities in OECD Countries, NEA Report 6043, 1 December 2006
 Web address for download:
<http://www.nea.fr/html/rwm/reports/2006/nea6043-storage.pdf>
- 1.1.6.** Document title: "International Experiences in Safety Cases for Geological Repositories (INTESC)", NEA Report 6251, November 2009
 Web address for download:
<http://www.nea.fr/rwm/reports/2009/nea6251-INTESC-eng.pdf>
- 1.1.7.** Document title: "More than Just Concrete Realities: The Symbolic Dimension of Radioactive Waste Management", NEA Report 6869, April 2010
 Web address for download:
<http://www.nea.fr/rwm/reports/2010/nea6869-symbolic.pdf>

1.2 IAEA

1.2.1. Document title: Issues in radioactive waste disposal – Second report of the Working Group on Principles and Criteria for Radioactive Waste Disposal, IAEA-TECDOC-909, October 1996

Web address for download:

http://www-pub.iaea.org/MTCD/publications/PDF/te_909_web.pdf

1.2.2. Document title: Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management, IAEA-INFCIRC-546, December 1997

Web address for download:

<http://www.iaea.org/Publications/Documents/Infcircs/1997/infcirc546.pdf>

1.2.3. Document title: IAEA 3rd Scientific Forum, Radioactive Waste Management – Turning Options into Solutions, 19-20 September 2000

Web address for download:

<http://www.iaea.org/Publications/Booklets/ScientificForum3/scientificforum3.pdf>

1.2.4. Document title: Retrievability of high level waste and spent nuclear fuel - Proceedings of an international seminar organized by the Swedish National Council for Nuclear Waste in co-operation with the International Atomic Energy Agency, Saltsjöbaden, Sweden, 24–27 October 1999, IAEA-TECDOC-1187, December 2000

Web address for download:

http://www-pub.iaea.org/MTCD/publications/PDF/te_1187_prn.pdf

1.2.5. Document title: Monitoring of geological repositories for high level radioactive waste, IAEA-TECDOC-1208, April 2001

Web address for download:

http://www-pub.iaea.org/MTCD/publications/PDF/te_1208_web.pdf

1.2.6. Document title: The Long Term Storage of Radioactive Waste: Safety and Sustainability – A Position Paper of International Experts, June 2003

Web address for download:

http://www-pub.iaea.org/MTCD/publications/PDF/LTS-RW_web.pdf

1.2.7. Document title: Retrieval and Conditioning of Solid Radioactive Waste from Old Facilities, IAEA TRS-456, February 2007

Web address for download

http://www-pub.iaea.org/MTCD/publications/PDF/TRS456_web.pdf

1.2.8. Document title: Geological Disposal of Radioactive Waste: Technological Implications for Retrievability, IAEA NW-T-1.19, January 2009

Web address for download:

http://www-pub.iaea.org/MTCD/publications/PDF/Pub1378_web.pdf

1.3 EC

- 1.3.1.** Document title: Results of the Concerted Action on the Retrievability of Long Lived Radioactive Waste in Deep Underground Repositories, J.B. Grupa, J.P. Hoorelbeke, J. Ziegenhagen, J-L. Santiago, P. Zuidema, I. Crossland, J. Vrijen, J. Vira, G. Volckaert, T. Papp, WM'01 Conference, February 25-March 1, 2001, Tucson, AZ

Web address for download:

<http://www.wmsym.org/archives/2001/36/36-1.pdf>

http://cordis.europa.eu/search/index.cfm?fuseaction=lib.simplifiedocument&DOC_ID=46986132&CFID=3304784&CFTOKEN=45334928 (description of EUR 19145)

- 1.3.2.** Document title: Thematic Network on the Role of Monitoring in a Phased Approach to Geological Disposal of Radioactive Waste, EC Report EUR 21025 EN, 1 March 2004

Web address for download:

http://cordis.europa.eu/search/index.cfm?fuseaction=lib.document&DOC_LANG_ID=EN&DOC_ID=66424202&pid=0&q=635B3C47F506C69042E0C05DCA15B0E5&type=sim (description of EUR 21025)

- 1.3.3.** Document title: Review of Current Disposal Concepts concerning Measures for Retrievability, B.R.W.Haverkate, Petten, NRG, 30 May 2005

Web address for download:

http://www.esdred.info/medias/Retrievability_compilation.pdf

1.4 Other

- 1.4.1.** Document title: Ethical Aspects of Technical Safety, C.F. Gethmann, Human Factors and Ergonomics in Manufacturing vol 13, pp. 243-252, June 2003

Web address for download:

http://www.eurosafe-forum.org/files/0511_gethmann_eurosafe02_gb.pdf

- 1.4.2.** Document title: Principles and Standards for the Disposal of Long-Lived Radioactive Wastes, Ed. N. Chapman and C. McCombie, Pergamon Press October 2003

Web address for download: N/A

- 1.4.3.** Document title: Decision Making for Complex Socio-Technical Systems: Robustness from Lessons Learned in Long-Term Radioactive Waste Governance, T. Flüeler, Springer, Dordrecht 2006

Web address for download: N/A

2.0 Documents from national programmes**2.1 Belgium**

- 2.1.1.** Document title: Rapport de la Commission pour l'Analyse des Modes de Production de l'Électricité et le Redéploiement des Énergies (AMPERE) au Secrétaire d'État à l'Énergie et au Développement durable, October 2000

Web address for download:

http://www.internet-observatory.be/energy/ampere_commission/E5.pdf

- 2.1.2.** Document title: L'enfouissement des déchets radioactifs dans l'argile : oui, mais à condition..., communiqué de presse d'une conférence citoyenne réunie par la Fondation Roi Baudouin, 1 February 2010

Web address for download:

<http://www.kbs-frb.be/pressitem.aspx?id=259836&LangType=2060>

2.2 Canada

- 2.2.1.** Document title: *Report of the Nuclear Fuel Waste Management and Disposal Concept Environmental Assessment Panel*, Canadian Environmental Assessment Agency, March 1998

Web address for download:

<http://www.ceaa-acee.gc.ca/default.asp?lang=En&n=0B83BD43-1&xml=0B83BD43-93AA-4652-9929-3DD8DA4DE486&offset=1&toc=hide> (on-line only; not downloadable)

- 2.2.2.** Document title: Geological Safekeeping and Retrievalability, a PowerPoint presentation by C. Allan, AECL, to the International Conference on Safety of Radioactive Waste Management, Cordoba, 13-17/03/2000 (see IAEA STI/PUB/1094)

Web address for download: N/A

<http://www-pub.iaea.org/MTCD/publications/PubDetails.asp?pubId=6045> (description of conference proceedings)

- 2.2.3.** Document title: NWMO Background Paper 1-2, The Precautionary Approach to Risk Appraisal, Andy Stirling, University of Sussex, September 2003

Web address for download:

<http://www.nwmo.ca/1.2>

- 2.2.4.** Document title: NWMO Background Paper 1-3, Adaptive Management in the Canadian Nuclear Waste Program, Kai N. Lee, Williams College, September 2003

Web address for download:

<http://www.nwmo.ca/1.3>

- 2.2.5.** Document title: NWMO Background Paper 1-1, Sustainable Development and Nuclear Waste, David Runnalls, International Institute for Sustainable Development, October 2003

Web address for download:

<http://www.nwmo.ca/1.1>

- 2.2.6.** Document title: NWMO Background Paper 2-5, Overview of European Initiatives: Towards a framework to incorporate citizen values and social considerations in decision-making, Kjell Andersson, Karita Research, January 2004

Web address for download:

<http://www.nwmo.ca/2.5>

- 2.2.7.** Document title: NWMO Background Paper 6-18, Adaptive Phased Management: Technical Description, Nuclear Waste Management Organization, October 2005

Web address for download:

<http://www.nwmo.ca/6.18>

- 2.2.8.** Document title: NWMO Dialogue Report 11-ABO-1, Building Relationship - The NWMO Aboriginal Dialogue 2003 - 2005, Nuclear Waste Management Organization, 18 October 2005

Web address for download:

http://www.nwmo.ca/uploads_managed/MediaFiles/971_11-abo-1buildingrelationship-t.pdf

- 2.2.9.** Document title: Choosing a Way Forward: The Future Management of Canada's Used Nuclear Fuel, Final Study report, November 2005

Web address for download:

<http://www.nwmo.ca/studyreport>

2.3 Finland

- 2.3.1.** Document title: Retrieval of Spent Nuclear Fuel Canisters, Posiva Working Report 99-21, by T. Saanio and H. Raiko, 1999

Web address for download: N/A

- 2.3.2.** Document title: Government Decision on the safety of disposal of spent nuclear fuel, 25 March 1999

Web address for download:

<http://www.stuk.fi/saannosto/19990478e.html>

- 2.3.3.** Document title: Finland proceeds towards direct disposal of spent fuel, Juhani Vira, presented at Workshop on Long-Term Nuclear Waste Management, Loughborough University, 6-7 November 2006

Web address for download:

[http://www.lboro.ac.uk/departments/cm/research/LTNWM/Finland%20Proceeds%20Towards%20Direct%20Disposal%20of%20Spent%20Fuel%20-%20Juhani%20Vira%20\(Posiva\).pdf](http://www.lboro.ac.uk/departments/cm/research/LTNWM/Finland%20Proceeds%20Towards%20Direct%20Disposal%20of%20Spent%20Fuel%20-%20Juhani%20Vira%20(Posiva).pdf)

- 2.3.4.** Document title: Retrieval of Spent Nuclear Fuel Canisters

Web address:

http://www.posiva.fi/en/final_disposal/retrieval/

2.4 France

- 2.4.1.** Document title: The reversibility of radioactive waste disposal in deep geological formations: The role of underground research laboratories and programme of studies, Andra, March 1998

Web address for download: N/A

- 2.4.2.** Document title: Réflexions sur la réversibilité des stockages, Commission nationale d'évaluation relative aux recherches sur la gestion des déchets radioactifs, June 1998

Web address for download:

<http://lesrapports.ladocumentationfrancaise.fr/BRP/004001166/0000.pdf>

- 2.4.3.** Document title: Social Transactions With Future Generations for the Management of High Level Radioactive Waste in Deep Repositories: Reflections on Institutional Control and Retrieval, by Hériard Dubreuil, G., Schieber C., Schneider T. & Viala, M., in Proceedings of the International Symposium on Radioactive Waste Disposal: Health and Environmental Criteria and Standards, August 31 - September 4, 1998, Stockholm, Sweden, pp 129-135.

Web address for download:

[http://63.166.104.204/sei/seipubs.nsf/Lookup/5058BA6F112F9C5F412567DE004EA92C/\\$file/Proceedings%20of%20the%20International%20Symposium.pdf](http://63.166.104.204/sei/seipubs.nsf/Lookup/5058BA6F112F9C5F412567DE004EA92C/$file/Proceedings%20of%20the%20International%20Symposium.pdf)

2.4.4. Document title: Colloque ‘La Réversibilité et ses Limites’, Vendredi 30 mars 2001, Comité Local d’Information et de Suivi du laboratoire de recherché souterrain de Bure (CLIS), 126 pages.

Web address for download:

http://www.clis-bure.com/cadres/c_archives.html

2.4.5. Document title: Analyse du colloque du 29 [sic] mars 2001 organisé par le CLIS : “la réversibilité et ses limites”

Web address for download:

<http://burestop.free.fr/colloque.htm>

2.4.6. Document title: “ Les Français et les déchets nucléaires” by P. d’Iribarne, Ministère de l’Économie, des Finances et de l’Industrie, May 2005

Web address for download:

<http://lesrapports.ladocumentationfrancaise.fr/BRP/054000355/0000.pdf>

2.4.7. Document title: Dossier 2005 Argile, December 2005

Web address for download:

<http://www.andra.fr/international/pages/en/menu21/waste-management/research-and-development/dossier-2005-1636.html>

2.4.8. Document title: LOI no 2006-739 du 28 juin 2006 de programme relative à la gestion durable des matières et déchets radioactifs

Web address for download:

<http://www.legifrance.gouv.fr/affichTexte.do?cidTexte=JORFTEXT000000240700&dateTexte=>

2.4.9. Document title: “Le pouvoir de l’indécision. La mise en politique des déchets nucléaires” by Y. Barthe, Economica (Ed.) 2006

Web address for download:

<http://halshs.archives-ouvertes.fr/halshs-00090195/fr/> (index reference only)

2.4.10. Document title: Réversibilité et sciences sociales: Actes de la Journée d’études du 2 octobre 2008 (Andra)

Web address for download:

<http://www.andra.fr/download/site-principal/document/editions/345.pdf>

2.4.11. Document title: Colloque interdisciplinaire sur la notion de réversibilité, Nancy, 17-19 June 2009 (Andra)

Web address for download:

<http://www.andra.fr/pages/fr/feedback-on-the-interdisciplinary-symposium-on-reversibility-1635.html>

2.4.12. Document title: Les formes d’argumentation autour de la notion de réversibilité dans la gestion des déchets radioactifs, 15 December 2009 (EHESS and Andra)

Web address for download:

<http://gspr.ehess.free.fr/documents/rapports/RAP-2009-ANDRA.pdf>

2.5 Germany

2.5.1. Document title: Agreement between the Federal Government of Germany and the utility companies dated 14 June 2000, Annex 4 - Declaration of the Federal Government on the exploration of the Gorleben salt dome

Web address for download: N/A

- 2.5.2.** Document title: Safety-related issues concerning disposal, Untersuchung der Möglichkeiten und der sicherheitstechnischen Konsequenzen einer Option zur Rückholung eingelagerter Abfälle aus einem Endlager, May 2005.

Web address for download:

http://www.bfs.de/en/endlager/publika/AG_3_Konzeptgrund_Rueckholbar.pdf

- 2.5.3.** Document title: Safety Requirements Governing the Final Disposal of Heat-Generating Radioactive Waste, Final version, July 2009

Web address for download:

http://www.bmu.de/files/pdfs/allgemein/application/pdf/endfassung_sicherheitsanforderungen_en.pdf

- 2.5.4.** Document title: Feasibility study on retrieval, Evaluation of the option of retrieving the LAW waste from the Asse mine, October 2009.

Web address for download:

http://www.endlager-asse.de/cln_104/EN/4_WhatWillBecome/C_FeasibilityStudies/StudyRetrieval.html

[http://www.endlager-](http://www.endlager-asse.de/cae/servlet/contentblob/749976/publicationFile/41386/MachbarkeitsstudieRueckholung.pdf)

[asse.de/cae/servlet/contentblob/749976/publicationFile/41386/MachbarkeitsstudieRueckholung.pdf](http://www.endlager-asse.de/cae/servlet/contentblob/749976/publicationFile/41386/MachbarkeitsstudieRueckholung.pdf)

- 2.5.5.** Document title: Comparison of Options for decommissioning Asse, Optionenvergleich Asse, Fachliche Bewertung der Stilllegungsoptionen für die Schachtanlage Asse II, November 2009.

Web address for download:

[http://www.endlager-](http://www.endlager-asse.de/cln_137/EN/4_WhatWillBecome/B_ComparisonOfOptions/5_expert_report/_node.html)

[asse.de/cln_137/EN/4_WhatWillBecome/B_ComparisonOfOptions/5_expert_report/_node.html](http://www.endlager-asse.de/cln_137/EN/4_WhatWillBecome/B_ComparisonOfOptions/5_expert_report/_node.html)

http://gsb.download.bva.bund.de/BFS/ASSE/Optionenvergleich/Optionenvergleich_Asse.pdf

2.6 Netherlands

- 2.6.1.** Document title: Position of the Dutch Government on Deep Burial (May 1993)

Web address for download: N/A

- 2.6.2.** Document title: Nuclear Waste and Nuclear Ethics – Social and ethical aspects of the retrievable storage of nuclear waste, H. Damveld and R.J. van den Berg, January 2000.

Web address for download:

http://www.nuclearfiles.org/menu/key-issues/ethics/issues/scientific/nuclear_waste_ethics.pdf

- 2.6.3.** Document title: Retrievable disposal of radioactive waste in The Netherlands – Summary (February 2001)

Web address for download:

http://www.nrg-nl.com/docs/radwaste/cora2001/summarycora_by_hageman.pdf

2.7 Spain

- 2.7.1.** Document title: Consequences of retrievability in the Spanish HNLW concept, J. Bruno, C. del Olmo and C. Ruiz, paper presented at the 2006 International High-Level Radioactive Waste Management Conference, Las Vegas, April 30 – May 4, 2006

Web address for download: N/A

2.8 Sweden

2.8.1. Document title: Final Storage of Spent Nuclear Fuel – KBS-3, Summary, 1983 (see page 53)
Web address for download: N/A

2.8.2. Document title: The Swedish Nuclear Power Inspectorate's Evaluation of SKB's RD&D Programme 98, SKI Report 99:30, Stockholm, Sweden 1999.
Web address for download: N/A

2.8.3. Document title: The Potential for Retrievability and Application of Monitoring within the KBS-3 Concept for Final Disposal of Spent Nuclear Fuel, WM'01 Conference, February25-March 1, 2001, Tucson, AZ
Web address for download: N/A

2.8.4. Document title: Techniques for freeing deposited canisters, P. Kalbantner and R. Sjöblom, SKB Report TR-00-15, June 2000.
Web address for download:
<http://www.skb.se/upload/publications/pdf/TR-00-15webb.pdf>

2.8.5. Document title: Focusing on SSI's risk and radiation protection criteria - A report based on discussions in focus groups in Östhammar and Oskarshamn municipalities, by B-M Drotz-Sjöberg, SSI Report 2003:20e, November 2003.
Web address for download:
<http://www.stralsakerhetsmyndigheten.se/Global/Publikationer/Rapport/Stralskydd/2003/ssi-rapp-2003-20e.pdf>

2.8.6. Document title: R&D Programme for 2007, SKB Report TR-07-12, September 2007.
Web address for download:
<http://www.skb.se/upload/publications/pdf/TR-07-12 FUD 2007 eng webb.pdf>

2.8.7. Document title: Nuclear Waste State-of-the-Art Report 2010 – challenges for the final repository programme, Swedish National Council for Nuclear Waste, SOU 2010:6, Stockholm 2010.
Web address for download:
http://www.karnavfallsradet.se/sites/default/files/dokument/280352_SOU_2010_6_web.pdf

2.9 Switzerland

2.9.1. Document title: Disposal Concepts for Radioactive Waste, final EKRA report, 31 January 2000
Web address for download:
http://www.bfe.admin.ch/dokumentation/publikationen/index.html?start=0&lang=en&marker_suche=1&ps_text=Concepts+for+Disposal

2.9.2. Document title: Loi sur l'énergie nucléaire, 21 March 2003
Web address for download:
<http://www.admin.ch/ch/fr/rs/7/732.1.fr.pdf>

- 2.9.3.** Document title: The Swiss HLW Programme – Status and Future Challenges, Juerg Schneider and Piet Zuidema, presented at Workshop on Long-Term Nuclear Waste Management, Loughborough University, 6-7 November 2006

Web address for download:

[http://www.lboro.ac.uk/departments/cm/research/LTNWM/The%20Swiss%20HLW%20Programme%20-%20%20Status%20and%20Future%20Challenges%20-%20Juerg%20Schneider%20\(Nagra\).pdf](http://www.lboro.ac.uk/departments/cm/research/LTNWM/The%20Swiss%20HLW%20Programme%20-%20%20Status%20and%20Future%20Challenges%20-%20Juerg%20Schneider%20(Nagra).pdf)

- 2.9.4.** Document title: Phased disposal, monitoring and retrievability, Fiona Neall, presented at Workshop on Long-Term Nuclear Waste Management, Loughborough University, 6-7 November 2006

Web address for download:

[http://www.lboro.ac.uk/departments/cm/research/LTNWM/Phased%20disposal,%20monitoring%20and%20Retrievability%20-%20Fiona%20Neall%20\(Neall%20Consulting\).pdf](http://www.lboro.ac.uk/departments/cm/research/LTNWM/Phased%20disposal,%20monitoring%20and%20Retrievability%20-%20Fiona%20Neall%20(Neall%20Consulting).pdf)

2.10 United Kingdom

- 2.10.1.** Document title: Literature Review of Approaches to Long-Term Storage of Radioactive Waste and Materials, Nirex Report N/107, July 2004

Web address for download:

<http://www.nda.gov.uk/documents/upload/Literature-review-of-approaches-to-long-term-storage-of-radioactive-waste-and-materials-Nirex-Report-N-107-2004.pdf>

- 2.10.2.** Document title: The viability of a phased geological repository concept for the long-term management of the UK's radioactive waste, Nirex Report no. N/122, November 2005

Web address for download:

<http://www.nda.gov.uk/documents/upload/The-viability-of-a-phased-geological-repository-concept-for-the-long-term-management-of-the-UK-s-radioactive-waste-Nirex-Report-N-122-November-2005.pdf>

- 2.10.3.** Document title: The Circumstances in which Nuclear Materials and Wastes should be, or ought not to be, subject to Retrieval, briefing note, November 2005

Web address for download:

<http://www.corwm.org.uk/Pages/Archived%20Publications/Forms/AllItems.aspx> (Search for 1399)

- 2.10.4.** Document title: CoRWM Information Needs: Monitoring and Retrievability for Each Short-Listed Option, R. Burt, 17 November 2005

Web address for download:

<http://www.corwm.org.uk/Pages/Archived%20Publications/Forms/AllItems.aspx> (Search for 1445)

- 2.10.5.** Document title: Context Note 4.1: Retrievability, Nirex Technical Note 424484 (prepared for CoRWM), December 2005

Web address for download:

<http://www.nda.gov.uk/documents/upload/Context-Note-4-1-Retrievability-A-Technical-Note-December-2005.pdf>

- 2.10.6.** Document title: Retrievability – safeguard or dangerous illusion?, F. Gibb, Geoscientist, vol.16 no.1, pp.14-16, 2006

Web address for download:

[http://www.corwm.org.uk/Pages/Archived%20Publications/Tier%202%20\(4\)%20-%20Making%20decisions/Tier%203%20-%20Internal%20briefing%20on%20key%20issues/1566.4%20-%20Retrievability%20\(F%20Gibb%20paper\)1.pdf](http://www.corwm.org.uk/Pages/Archived%20Publications/Tier%202%20(4)%20-%20Making%20decisions/Tier%203%20-%20Internal%20briefing%20on%20key%20issues/1566.4%20-%20Retrievability%20(F%20Gibb%20paper)1.pdf)

2.10.7. Document title: The long-term management of radioactive waste: the work of the Committee on Radioactive Waste Management (CoRWM), Royal Society policy document 01/06, January 2006

Web address for download:

<http://royalsociety.org/The-long-term-management-of-radioactive-waste-the-work-of-the-Committee-on-Radioactive-Waste-CoRWM/>

2.10.8. Document title: Briefing note on PSE outputs related to retrievability, February 2006

Web address for download:

[http://www.corwm.org.uk/Pages/Plenary%20Meetings/Pre%20November%202007/2006/27-28%20February%202006/1566%20-%20Retrievability%20briefing/1566.3%20-%20Retrievability%20-%20PSE%20outputs%20\(1\).doc](http://www.corwm.org.uk/Pages/Plenary%20Meetings/Pre%20November%202007/2006/27-28%20February%202006/1566%20-%20Retrievability%20briefing/1566.3%20-%20Retrievability%20-%20PSE%20outputs%20(1).doc)

2.10.9. Document title: Retrievability: Summary Note for Holistic Assessment, 11-12 April, F. Barker, 24 March 2006

Web address for download:

[http://www.corwm.org.uk/Pages/Archived%20Publications/Tier%202%20\(4\)%20-%20Making%20decisions/Tier%203%20-%20Internal%20briefing%20on%20key%20issues/1682%20-%20Retrievability%20-%20summary%20note%20for%20holistic%20assessment.doc](http://www.corwm.org.uk/Pages/Archived%20Publications/Tier%202%20(4)%20-%20Making%20decisions/Tier%203%20-%20Internal%20briefing%20on%20key%20issues/1682%20-%20Retrievability%20-%20summary%20note%20for%20holistic%20assessment.doc)

2.10.10. Document title: Report on study visit by Swedish delegation to West Cumbria, 5-7 April 2006

Web address for download:

<http://www.carl-research.org/docs/20061004180214HDHH.pdf>

2.10.11. Document title: Chapter 15, Geological disposal, from “Managing our Radioactive Waste Safely”, CoRWM’s recommendations to Government, July 2006

Web address for download:

<http://www.corwm.org.uk/Pages/Current%20Publications/700%20-%20CoRWM%20July%202006%20Recommendations%20to%20Government.pdf> (see Chapter 15)

2.10.12. Document title: Managing Radioactive Waste Safely- A framework for implementing geological disposal, DEFRA consultation document, 25 June 2007

Web address for download:

<http://mrws.decc.gov.uk/>

2.10.13. Document title: Retrievability and Design of a Geological Repository, NuLeAF Briefing Paper 8, July 2007

Web address for download:

http://www.nuleaf.org.uk/nuleaf/documents/2007-07_BP8_Retrievability_and_design_of_a_Geological_Repository.pdf

2.10.14. Document title: Geological Disposal Facilities on Land for Solid Radioactive Wastes – Guidance on Requirements for Authorisation, UK Environment Agency, February 2009

Web address for download:

<http://publications.environment-agency.gov.uk/pdf/GEHO0209BPJM-e-e.pdf>

2.11 United States

2.11.1. Document title: “Technology: Processes of Assessment and Choice”, National Academy of Sciences, July 1969

Web address for download: N/A

- 2.11.2.** Document title: “Proposed Goals for Radioactive Waste Management”, USNRC NUREG-0300, 1978
Web address for download: N/A
- 2.11.3.** Document title: “Rethinking High-Level Radioactive Waste Disposal: A Position Statement of the Board on Radioactive Waste Management”, National Academies Press 1990
Web address for download:
http://www.nap.edu/catalog.php?record_id=10293 (on-line only; not downloadable)
- 2.11.4.** Document title: “Disposition of High-Level Waste and Spent Nuclear Fuel: The Continuing Societal and Technical Challenges”, National Academies Press 2001
Web address for download:
http://www.nap.edu/nap-cgi/report.cgi?record_id=10119&type=pdfxsum (Executive Summary only)
http://www.nap.edu/catalog.php?record_id=10119 (on-line only; not downloadable)
- 2.11.5.** Document title: Nuclear Regulatory Commission, Disposal of High-Level Radioactive Wastes in a Proposed Geologic Repository at Yucca Mountain, NV, Final Rule, Federal Register / Vol. 66, No. 213 / Friday, November 2, 2001
Web address for download:
http://www.ocrwm.doe.gov/info_library/newsroom/documents/10cfr63_frn.pdf
- 2.11.6.** Document title: “Principles and Operational Strategies for Staged Repository Systems: Progress Report”, National Academies Press 2002
Web address for download:
http://www.nap.edu/catalog.php?record_id=10329 (on-line only; not downloadable)
- 2.11.7.** Document title: “One Step at a Time: The Staged Development of Geologic Repositories for High-Level Radioactive Waste”, National Academies Press 2003
Web address for download:
http://www.nap.edu/catalog.php?record_id=10611 (on-line only)
http://books.nap.edu/html/one_step/reportbrief.pdf (Two-page brochure)
- 2.11.8.** Document title: Performance Confirmation Plan, USDOE TDR-PCS-SE-000001, Rev 05, ICN 00, November 2004
Web address for download:
http://adamswebsearch2.nrc.gov/idmws/doccontent.dll?library=PU_ADAMS^PBNTAD01&ID=091120086
- 2.11.9.** Document title: Nuclear Waste Policy Act of 1982 as amended 2004
Web address for download:
http://www.ocrwm.doe.gov/uploads/files/nwpa_2004.pdf
- 2.11.10.** Document title: 10 CFR 60.111 Performance of the geologic repository operations area through permanent closure
Web address for download:
<http://www.nrc.gov/reading-rm/doc-collections/cfr/part060/part060-0111.html>
- 2.11.11.** Document title: 10 CFR 63.111 Performance objectives for the geologic repository operations area through permanent closure
Web address for download:
<http://www.nrc.gov/reading-rm/doc-collections/cfr/part063/part063-0111.html>