



Committee on Radioactive Waste Management

COMMITTEE ON RADIOACTIVE WASTE MANAGEMENT

PROPOSED PROGRAMME OF WORK 2014-2017

April 2014

INTRODUCTION BY THE CHAIR

I am pleased to present CoRWM's proposed work programme for 2014-17 to sponsor Ministers, the Secretary of State for Energy and Climate Change and Environment Ministers in Scotland, Wales and Northern Ireland.

CoRWM's proposed programme for 2014-17 is outlined in paragraphs 11 to 16 and the detailed breakdown is in Table 1 of the document.

The programme consists of a 3-year rolling plan and as such, the greatest detail on what we propose to do is given for the first year (2014-15). The plan for 2014-15 shows that CoRWM will, given the current priorities, continue to focus most of its time on the revision to the GDF siting process and any policy implications. Other priority areas are to support to the Welsh Government on its radioactive waste policy development and the transition of the Radioactive Waste Management Directorate (RWMD) from a Directorate of the Nuclear Decommissioning Authority (NDA) to an effective Geological Disposal Facility "delivery organisation". Time will also be allocated to Scottish Government's management of Higher Activity Waste; to interim storage of spent fuel and radioactive waste, plutonium and nuclear materials management, stakeholder engagement issues and CoRWM's outreach programme. Priorities for the later parts of the plan are less well developed and therefore the activities are only indicative and could change depending upon future developments.

Progress on the delivery of the 2013-14 plan can be seen in the CoRWM Annual Report for 2013-14 which will be submitted to sponsor Ministers in June 2014.

Professor Laurence Williams
CoRWM Chair

INTRODUCTION

1. This is the second CoRWM work programme since the Committee was re-constituted in November 2012. It covers the proposed programme for 2014-15 in detail and identifies the topics that could be addressed in the following two years.
2. This document summarises CoRWM's remit, describes the development of the proposed programme and outlines priorities for 2014-15 with the deliverables.
3. Once the programme has been approved, CoRWM's sub-groups will prepare more detailed work-plans, which will be regularly updated and will be available on the CoRWM website.

CORWM'S REMIT

4. CoRWM was set up in 2003 as part of Government's Managing Radioactive Waste Safely (MRWS) programme. Its initial remit was to oversee a review of the options for the long-term management of the UK's higher activity radioactive waste (HAW) and to recommend an option (or combination of options) to Government. CoRWM reported in July 2006 (CoRWM doc. 700) and Government responded in October 2006 (Defra *et al.*, 2006), accepting most of CoRWM's recommendations. The Government then began work on the implementation of policy for geological disposal, using a voluntarism and partnership approach, preceded by robust interim storage and accompanied by the necessary research.
5. There was a public consultation in 2007 on a framework for implementing geological disposal (Defra *et al.*, 2007). The consultation was followed in June 2008 by a White Paper (Cm 7386) and an invitation to local communities to express an interest in hosting a geological disposal facility (Defra *et al.*, 2008). In 2007, the Scottish Government decided not to endorse geological disposal (Lochhead, 2007); it subsequently developed its own policy for the management of its HAW, which consists of long-term management in near-surface, near-site facilities, which should be located as near to the site where the waste is produced as possible (Scottish Government, 2011).
6. In October 2007, Government reappointed CoRWM under new terms to *provide independent scrutiny and advice to UK Government and devolved administration Ministers on the long-term management, including storage and disposal, of radioactive waste. CoRWM's primary task is to provide independent scrutiny of the Government's and Nuclear Decommissioning Authority's proposals, plans and programmes to deliver geological disposal, together with robust interim storage, as long term management options for the UK's higher activity wastes.*
7. In November 2012, Government refreshed the membership of the committee, with a new Chair and six new members.
8. CoRWM continues to work within the terms stated in paragraph 6 and the current membership of CoRWM is shown in Annex B.

9. CoRWM's proposed 2014-17 work programme was developed by the Committee in the period of January to March 2014. Comments were received from the Nuclear Decommissioning Authority (NDA), the Office for Nuclear Regulation (ONR), the Environment Agency (EA) and the Scottish Environment Protection Agency (SEPA). After considering the comments received, the Committee agreed the final version of its proposed work programme at its March plenary which was held in public.

10. CoRWM's role is different to that of the safety, security and environmental regulators. CoRWM is an advisory committee to Government and as such, has no regulatory powers. Therefore, although CoRWM has an interest in the management of HAW, as do the regulators, the Committee's focus is on providing independent advice to Ministers to improve the development and implementation of policies and to scrutinize DECC and the NDA's programmes at a strategic level.

PRIORITIES FOR 2014-15

11. CoRWM's proposed priorities for scrutiny and advice in 2014-15 are as follows with the percentage of time allocated for 2014-15 is given in parenthesis for each topic area:

- ***To provide advice to DECC on the Geological Disposal Facility (GDF) Siting Policy (50%)***

CoRWM will plan its work to provide timely advice to DECC to inform the review and analysis of the Consultation responses and any subsequent revision of the GDF Siting Process. This work will include review of an appropriate regulatory framework for a GDF, the safety case approach, engagement with the NDA /RWM on the development of GDF Generic Safety Cases, the relationship between these Generic Safety Cases and the Siting Process and the Government's (DECC) engagement process to promote a wider understanding of the English and Welsh HAW radioactive waste management programmes including the need for, and role of, a GDF.

- ***To provide advice to the Welsh Government on its Review of Radioactive Waste Policy in respect of HAW (20%)***

CoRWM will plan its work to provide timely advice to the Welsh Government on its proposals to develop a new radioactive waste policy. CoRWM will also provide scrutiny of the Welsh Government approach and any subsequent analysis.

- ***To provide advice to DECC and other Sponsors on the transition of the NDA (RWMD) to an effective GDF Delivery Organisation (10%)***

CoRWM will plan its work to provide timely advice to DECC and other Sponsors, as appropriate, on the effectiveness of the transition of the NDA's

RWM to a stand-alone organisation with responsibility for delivery of a GDF. This work will include gathering information on other (international) GDF delivery organisations.

- ***To provide advice to the Scottish Government on its Radioactive Waste Management Strategy (5%)***

CoRWM will plan its work to provide timely advice to the Scottish Government on its developing HAW radioactive waste management strategy to support the implementation of the Scottish Government Policy for managing HAW. This work will include providing advice on specific issues identified by the Scottish Government, gathering information on the NDA's plans for Scotland and scrutinising the implementation of the Strategy.

- ***Interim Surface Storage of HAW Radioactive Wastes. (5%)***

CoRWM will plan its work to provide timely advice to DECC on the current status of interim surface storage of HAW. This work will include scrutiny of current arrangements at NDA and other nuclear sites. It will also include a review and scrutiny of NDA's future plans and any necessary R&D that will be necessary to underpin these plans. Nuclear safety and security implications will be discussed with NDA and the regulators.

- ***Uranium, Plutonium and Spent Fuel Management (5%)***

CoRWM will plan its work to provide timely advice to DECC and other sponsors on the current status of spent fuel and plutonium management and the implications for a GDF. This work will include the review and scrutiny of the NDA and other nuclear site Licensees' current and future plans, and any necessary R&D programme to underpin these plans.

- ***CoRWM Outreach (5%)***

CoRWM will plan its work to provide effective engagement with the public and other stakeholders to raise the profile of CoRWM and help inspire confidence in its work.

CoRWM's engagement strategy

12. CoRWM will continue to engage widely to gather evidence to progress CoRWM's various work streams, and to communicate CoRWM's output via e-bulletins, the CoRWM website, at conferences, and via face-to-face meetings with its stakeholders, NGOs and the public.

TASKS AND DELIVERABLES FOR 2014-17

13. Table 1 shows the description of each proposed task for 2014 to 2017, together with the output and date due, the method of carrying out the task, the task priority and the planned resource allocated for 2014 to 2017.

14. The tasks for 2015-2017 are based upon current understanding of the radioactive waste issues that are likely to require scrutiny and advice. These are estimates and will be reviewed and may change in future year's work programmes.
15. CoRWM will produce a number of deliverables in the form of informal reports for Government. Currently, informal advice is the preferred option due to the need for timely and flexible advice. Unless circumstances do not permit, CoRWM will endeavour to publish all its reports. CoRWM will also produce an Annual Report for 2014-15 for publication in June 2015.

Resources

16. This Work Programme assumes that CoRWM has a provisional budget of £375k for 2014-15, and a secretariat provided by DECC.

Table 1. Work programme topics, priorities, time allocation and outputs for 2014-15.

Re f.	Source	Task Description	Task output	Method	Sub-group	Target date	Priority	Time Allocation 2014/15
1	CoRWM & DECC	GDF Siting Policy: Provide advice and scrutiny of DECC's GDF Siting Process Review and any subsequent revision to the Policy and its implementation in England and Wales	Informal advice to, and scrutiny of the DECC response to the consultation. Informal and formal advice on proposed changes to policy and scrutiny and advice on the implementation of any revised approach.	Discussions with Officials key stakeholders, attending meetings, analysis by CoRWM	SG 1 + others	Various to 09/17	High	50%
1a		Task 1a: Scrutiny of DECC's analysis of the GDF siting process consultation responses.	Informal advice to DECC on CoRWM's scrutiny of DECC's analysis of consultation responses	Member observations to date	SG 1	05/14	High	5%
1b		Task 1b: Provide advice to DECC on any proposed revision to the GDF Siting Policy.	Informal advice to DECC on any revised White Paper	Discussions with DECC officials	SG 1	06/14	High	10%
1c		Task 1c: Provide scrutiny of DECC and RWM's engagement plans and activities.	Informal advice to, and scrutiny of, DECC and RWM's engagement plans giving CoRWM's views and recommendations as appropriate	Review by SG 1 and Committee	SG 1	Various to 09/17	High	10%
1d		Task 1d: Provide advice to DECC on the Regulatory Framework for a GDF.	Formal and informal advice as appropriate to DECC, Welsh Government and Northern Ireland sponsors on the development of a suitable regulatory framework for a GDF	Discussions with ONR, EA, NRW, RWM and DECC Officials	SG 2	Various to 06/15	High	10%

1e		Task 1e: Provide advice to DECC on RWM's Generic System Safety Case approach for a GDF	Informal and formal advice as appropriate on, and scrutiny of the development of the content and application of the generic system safety case approach for a GDF	Discussions with RWM, EA and ONR	SG 3	Various to 09/15	High	4%
1f		Task 1f: Inform CoRWM's understanding of the conceptual bases of safety cases.	Characterise the fundamental concepts of a GDF safety case throughout the lifecycle from siting, design, construction, commissioning, operation, decommissioning, closure and post-closure	Discussions with ONR, and EA and review of IAEA and other documents	SG 3	12/14	High	3%
1g		Task 1g: Provide advice to DECC on the communication and use of Safety Cases in the siting process	Formal and informal advice to DECC on, and scrutiny of, the development and application of the GDF safety case in the siting process	Review by Members, and discussions with RWM, EA, ONR	SG 3	Various to 09/17	High	3%
1h		Task 1h: Provide advice to DECC and other Sponsors on stakeholder engagement as required by the new siting process	Formal and informal advice to, and scrutiny of, DECC and RWM engagement activities in the early stages of the new siting process.	Discussions with DECC, RML and key stakeholders, attending meetings	SG 1	12/14	High	5%
2	Welsh Government and CoRWM	Welsh Policy To provide advice to the Welsh Government on its Review of Radioactive Waste Policy with respect to HAW	Formal and information advice to Welsh Government on Radioactive waste policy for Wales.	Discussions with Officials, stakeholders, meetings, analysis by CoRWM		Various to 2015	High	20%
2a		Task 2a: Provide advice to Welsh	Informal and formal advice as	Discussions				

		Government on its proposals to update the Welsh Policy on Radioactive Waste and any further developments.	required to Welsh Government	with Welsh Officials	SG 4	12/14		15%
2b		Task 2b: Scrutinize Welsh Government Consultation, analysis of the responses and changes to the policy	Informal advice to Welsh Government on CoRWM's scrutiny of Welsh Government's consultation, analysis of responses and policy development.	Observations and discussions	SG 4	12/14	High	5%
3	CoRWM	RWMD Transition: To provide scrutiny of, and advice to DECC and other Sponsors on the transition of the NDA (RWM) to an effective GDF Delivery Organisation	Informal advice to DECC and other Sponsors on, and scrutiny of, the effectiveness of the transition from the NDA's RWMD to a separate delivery organisation	Observations discussions with DECC, NDA. RWM		Various to 12/15	High	10%
3a		Task 3a: Scrutinise the transition of RWMD into a wholly owned subsidiary of NDA	Informal advice to sponsors on the effectiveness of subsidiary to deliver its siting and safety case responsibilities	Meetings and discussions with NDA, RWM	SG 5	09/14	High	5%
3b		Task 3b: Review the attributes and capabilities of a GDF delivery organisation	Informal advice to sponsors on CoRWM's views on what the UK Delivery organisation needs to deliver its responsibilities effectively	Discussions with NDA, RWM, ONR, EA. Review of international experience	SG 5	12/14	High	3%
3c		Task 3c: Scrutinise the GDF Delivery Organisation development plans	Informal advice to DECC on the adequacy of the Delivery Organisation's development plans to become a nuclear licensee	Discussions with NDA, RWM, ONR, EA. Review of	SG 5	12/15	High	2%

				international experience				
4	Sponsor for Scotland	Scottish Government: Review the arrangements for implementing the Scottish Government policy for managing HAW.	Formal and informal advice to Scottish Government, and scrutiny of the progress on the implementation of the SG policy.	Discussions with SG Officials / NDA / EDF		Various to 09/16	High	5%
4a		Task 4a Input to and scrutiny of the process for developing a strategy for implementing the Scottish Government policy for managing HAW	Formal and informal advice to the SG on the adequacy of the proposed strategy and the process undertaken to develop it, including responding to the consultation on the implementation strategy.	Discussions / meetings with SG, waste producers / licensees	SG 6	12/14	High	3%
4b		Task 4b Monitor the management of HAW in Scotland	Informal advice as required to the SG on issues raised by CoRWM's scrutiny activities	Meetings with SG / licensees / waste producers	SG 6	Various to 09/16	High	2%
5	CoRWM	Interim Surface Storage: Consideration of the current status of interim storage of radioactive waste, spent fuel and other nuclear materials in the UK and the implications for the GDF.	Informal advice to DECC and sponsors on issues raised by CoRWM's scrutiny of decisions on current and future plans for the retrieval, treatment, and storage of radioactive waste; the status of current storage and implications for GDF design/decisions.	Discussions with NDA / EDF / MOD, Review of international experience and analysis by CoRWM		Various to 09/17	Med	5%
5a		Task 5a: Consider the current status of interim storage of radioactive waste in the UK	Informal advice and scrutiny of the current status of conditioned and unconditioned waste with	Review of NDA / EDF documents	SG 7	09/14	Med	3%

			regard to passive safety and retrievability	and discussions				
5b		Task 5b: Consider the plans for retrieval of wastes from legacy ponds and silos at Sellafield	Informal advice and scrutiny of the adequacy of plans and implications for future surface storage requirements.	Review of NDA documents and discussions with NDA / SL	SG 7	12/14	Med	2%
5c		Consider the delivery of NDA's radioactive waste plans. (Detailed tasks will be developed in CoRWM's detailed work plan for 2015/6)	Formal and informal advice as required to DECC and sponsors on issues raised by CoRWM's scrutiny activities	Review and analysis Discussions with NDA	SG 7	03/16	Med	0%
6	CoRWM	Spent fuel, plutonium and uranics management: Consideration of the current position on spent fuel and plutonium management and the implications for the GDF	Formal and informal advice on, and scrutiny of, the current status and implications for radioactive waste generation, treatment, conditioning, storage and disposal including in the GDF.	Discussions NDA / DECC /RS/RAEng / EDF/ONR. Review of Int'l experience and analysis		Various to 09/17	Med	5%
6a		Task 6a: Consider the current status of spent fuel, plutonium and uranics management in the UK including storage, recycling and conditioning for disposal.	Informal advice to DECC and sponsors on issues raised by CoRWM's scrutiny of the current status and the implications for radioactive waste generation, treatment, conditioning, storage and disposal including in the GDF.	Meetings / discussions with DECC /NDA/ ONR	SG 8	12/14	Med	3%
6b		Task 6b Consider the NDA's proposed options and implications	Informal advice to DECC and sponsors on issues raised by	Meetings / discussions	SG8	12/14	Med	2%

		for geological disposal and the GDF Safety Case.	CoRWM's scrutiny of NDA's proposed strategy and the implications for the GDF size, complexity and safety case.	with DECC /NDA and Regulators				
6c		Task 6c Scrutiny of spent fuel management activities in relation to open and closed cycle options and the implications for interim storage and for geological disposal.	Informal advice to DECC and sponsors on issues raised by CoRWM's scrutiny of the implications of the open and closed fuel cycle options for interim storage and geological disposal	Monitoring development in the EU and USA discussions with NDA and key stakeholders	SG8	12/15	Med	0%
6d		Spent Fuel and Pu Management: Task 6d Review of NDA strategy implications for the GDF in the UK. (Detailed tasks will be developed in CoRWM's detailed work plan for 2015/6)	Formal and informal advice as required by DECC and to DECC on issues of raised by CoRWM's scrutiny activities	Review by SG 5	SG 8		Med	0%
7	CoRWM	CoRWM Outreach: Provide effective engagement with the public and other stakeholders to raise the profiles of CoRWM and help inspire confidence in its work.	Development and delivery of a communication strategy to cover CoRWM interactions with the public and key stakeholders	Secretariat proposal and monitoring			High	5%
7a		Task 7a: Representation of CoRWM at external events and conferences	Creation of new, engaging materials/ delivery of lectures / attend meetings / publish articles		All members	Various in 2014	High	3%

7b		Task 7b: Keep the website current, send out e-bulletins, publish minutes and documents.	Up to date website, informative newsletters, publications.		Sec	ongoing	High	1%
7c		Task 7c: Hold open meetings and specific engagements with the public and NGOs	All plenary meetings to be open, evening Q&A meetings when visiting sites		Sec	Various in 2014	High	1%

ANNEX B CoRWM MEMBERS

Laurence Williams FREng (Chair) is an international authority on nuclear safety and security regulation. He is Professor of Nuclear Safety and Regulation at the University of Central Lancashire and his additional roles include visiting Professor at King's College London, visiting Senior Fellow at the National Nuclear Laboratory. He is a member of the High Scientific Council of the European Nuclear Society, Chair of the Nuclear Institute Editorial Board for Nuclear Future and currently the Chair of the Defence Nuclear Safety Committee. He is also an external examiner for the Nuclear Department of the Defence Academy and a member of the Chernobyl International Advisory Group to the European Bank for Reconstruction and Development.

Formerly, Laurence was the Chief Engineer and Director for Nuclear Safety, Security and Environment at the Nuclear Decommissioning Authority, a member of the board of the Health and Safety Executive and Her Majesty's Chief Inspector of Nuclear Installations and the Chairman of the IAEA Commission on Safety Standards, where he was responsible for overseeing the development of international standards in the areas of nuclear safety, radiation protection, radioactive waste management and the transport of nuclear materials.

Current term of office ends: **31 October 2016**

Francis Livens (Deputy Chair) has held a radiochemistry position at the University of Manchester since 1991. He worked for over 25 years in environmental radioactivity and actinide chemistry, starting his career with the Natural Environment Research Council, where he was involved in the response to the Chernobyl accident. At the University of Manchester, he has worked in many aspects of nuclear fuel cycle research, including effluent treatment, waste immobilisation and actinide chemistry. He was the founding director of the Centre for Radiochemistry Research, established in Manchester in 1999 and is now Research Director of the Dalton Nuclear Institute and Director of the EPSRC-funded, Manchester/Sheffield Nuclear Fission Doctoral Training Centre. He has acted as an advisor to the nuclear industry both in the UK and overseas.

Current term of office ends: **31 October 2014**

Gregg Butler is Co-Director of Integrated Decision Management Ltd and a Professor of Science in Sustainable Development at the University of Manchester, attached to the Dalton Nuclear Institute. He has a BSc and PhD in metallurgy from Swansea University, and has over 45 years' experience in the nuclear industry, having worked in most parts of the fuel cycle in R&D, planning, commercial, plant operations, plant and site management and director roles. He was a member of the Radioactive Waste management Advisory Committee from 1994 – 2004. Current research interests include the sustainability of nuclear power and its regulation, and effectiveness of decision making methodologies in bringing economics, regulatory outcomes, stakeholder views and values to a robust conclusion.

Current term of office ends: **25 November 2016**

Brian D Clark is Professor of Environmental Management and Planning at Aberdeen University. He was a Board Member of the Scottish Environment Protection Agency (SEPA) and Chairman of the North Region Board and the Planning & Finance Committee of SEPA from 2000 to 2008. He has served on CoRWM since 2003. With forty years of experience, he is a specialist in environmental impact assessment (EIA), strategic environmental assessment (SEA) and urban and rural planning. He was honoured in 1987 by being made a founder

member of UNEP's Global 500 Award. He is a governor of the James Hutton Institute, a member of the Scottish Government Local Boundary Commission and a founder member of the Institute of Environmental Assessment (IEA), now the Institute of Environmental Management and Assessment (IEMA).

Current term of office ends: **31 October 2014**

Paul Davis is the owner of EnviroLogic Inc., an environmental and water resources consulting company in Durango, Colorado, USA. He has over 30 years of experience in the geologic disposal of radioactive waste, starting with site characterization of the Waste Isolation Pilot Project (WIPP) for the United States Geological Survey. At Sandia National Laboratories, he participated in and led the development of performance assessment methodologies for geologic repositories in bedded salt, basalt, and volcanic tuff for the US Nuclear Regulatory Commission, specializing in groundwater flow and transport modelling and the quantification and propagation of uncertainty. He also provided technical support for the development of safety standards for high-level waste disposal for the U.S. Environmental Protection Agency and led the WIPP team responsible for the integration of site characterization, research, performance assessment and regulatory compliance. He is currently collaborating with Los Alamos National Laboratories in the quantification of uncertainty in stable isotope analyses and with Moscow State University, Russia in the development of regional groundwater flow models.

Current term of office ends: **25 November 2016**

Simon Harley is Professor of Lower Crustal Processes in the School of Geosciences at the University of Edinburgh. An international expert on the evolution of continental crust, his research integrates geological mapping with experimental and microanalytical studies of the stabilities of minerals and their behaviour at high temperatures and pressures. He has conducted geological mapping projects in diverse and complex basement areas in Australia, India, Norway, Greenland, Scotland and Antarctica. Professor Harley is a Fellow of the Royal Society of Edinburgh and in 2002 was awarded the Imperial Polar Medal in recognition of his contributions to Antarctic Earth Science.

Current term of office ends: **31 October 2014**

Rebecca Lunn is a Professor in Civil Engineering at the University of Strathclyde. She has over 20 years of research experience in hydrogeology, with a particular focus on deep flow systems, hydromechanics and the spatial and temporal evolution of rock permeability. In 2011, she was awarded the Geological Society Aberconway Medal for research of particular relevance within industry. Her research experience is multi-disciplinary and she currently collaborates closely with structural geologists, seismologists, mathematicians, microbiologists, psychologists and statisticians. She leads the multi-partner EPSRC research consortium, 'Biogeochemical Applications in Nuclear Decommissioning and Disposal' (BANDD). Current research interests include: development of computer models to simulate changes in rock permeability over time surrounding geological faults, with a view to improving flow predictions for deep radioactive waste disposal and carbon dioxide sequestration; understanding the relationship between subsurface groundwater flow and earthquakes; and exploring public understanding of uncertain science, such as flood prediction, to inform the regulators' approach to public information and decision making.

Current term of office ends: **31 October 2014**

Stephen Newson is a Chartered Engineer and Fellow of the Institute of Materials, Minerals and Mining and is currently working as a Mining Consultant on a range of underground projects in

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the UK and overseas. He has over 40 years of mining experience including operational management, research and development, business planning and the design and construction of large underground excavations. He spent 16 years with British Coal, latterly responsible for the specification and approval of underground tunnel and coalface support systems on a national basis. During this time his was also a UK representative on the European Experts' Committee on tunnelling systems. He has worked for a number of major companies on new mine construction and expansion projects in Australia, Asia, North America and Africa. He has also, as a consultant, previously worked on underground design and planning projects related to the potential disposal of radioactive waste underground.

Current term of office ends: **25 November 2016**

Helen Peters is a Legal Director at Pinsent Masons LLP. She is a solicitor specialising in all aspects of UK, EU and international environmental law and policy with significant experience in nuclear regulation and waste management. Helen is recognised as a leading UK environmental lawyer by Chambers Legal Directory and Legal 500. She is a member of the WNA Licensing and Permitting Task Force and a corporate member of the Nuclear Industries Association. She is also the UK Environmental Law Association regional convenor for the North East and member of the UKELA waste working party. Helen has been engaged in several of the leading nuclear transactions in the UK in recent years, advising on environmental and regulatory matters for public authorities and owners, operators and contractors.

Current term of office ends: **25 November 2016**

John Rennilson is a Chartered Town Planner and a Chartered Surveyor with over 37 years' experience in local government. He served as County Planning Officer of North Yorkshire County Council (1984-1996) and as Director of Planning & Development for Highland Council (1996-2008). His career has involved balancing development needs and environmental issues at a strategic, as well as at a local, level. He has had considerable experience of the energy industry, including development of the Selby Coalfield, coal-fired electricity generation at Drax and Eggborough, and decommissioning Dounreay, as well as renewable electricity generation and transmission issues across the Highlands.

Current term of office ends: **31 October 2014**

Lynda Warren is Emeritus Professor of Environmental Law at Aberystwyth University and visiting Professor at Birmingham City University. She is a member of the Board of Natural Resources Wales, which will be taking over the functions of the Environment Agency in Wales from April 2013, and sits on Defra's Science Advisory Council. She was a member of the Royal Commission on Environmental Pollution until its closure in March 2011. She has postgraduate degrees in marine biology and law and has pursued an academic career first in biology and latterly in environmental law. She has over 100 academic publications, including a number on radioactive waste management law and policy. Lynda has over 15 years of experience of radioactive waste management policy. She has been a member of CoRWM since 2003 and, before that, was a member of the Radioactive Waste Management Advisory Committee (RWMAC), chairing its working group on Dounreay. She was on the Board of British Geological Survey until the Board was disbanded in April 2011 and is an associate of IDM, a consultancy engaged in environmental policy advisory work, mainly in the nuclear sector.

Current term of office ends: **25 November 2016**

Janet Wilson is a recognised authority known internationally throughout the nuclear community. Specialities include government policy, national strategy, regulation and advising

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on sensitive nuclear safety and non-proliferation issues, most recently as Associate Director Energy for Atkins Global. Her breadth of experience and technical knowledge enable her to not only provide strategic support and advise to nuclear clients but also to develop new business opportunities for this international engineering and design consultancy. Immediately before joining the private sector she was Director of Nuclear Assurance for the Nuclear Decommissioning Authority and a Non- Executive Director for the Civil Nuclear Police Authority. Prior to this she held a series of senior management roles in the UK nuclear regulatory body now known as ONR regulating high profile civil and defence facilities, representing the UK internationally in emergency preparedness and regulatory matters and developing UK decommissioning and clean-up policy and regulation. Janet holds a PhD, is a Fellow of the Institution of Mechanical Engineers, is a European Engineer and is a Liveryman of the Worshipful Company of Engineers.

Current term of office ends: **25 November 2016**

Annex C Sub Groups

SG 1: Siting Policy Review

Brian Clark (Lead)
Rebecca Lunn
Simon Harley
John Rennilson
Paul Davis
Lynda Warren

SG 2: Regulatory Review

Laurence Williams (Lead)
Lynda Warren
Helen Peters
Janet Wilson

SG 3: Safety Case Review

Paul Davis (Lead)
Janet Wilson
Gregg Butler
Rebecca Lunn
Francis Livens
Stephen Newson
Laurence Williams
Simon Harley

SG 4: Welsh Policy Review

Lynda Warren (Lead)
Francis Livens
Helen Peters
Gregg Butler

SG 5: RWM Ltd Transition

Stephen Newson (Lead)
Janet Wilson
Paul Davis
Simon Harley

SG 6: Scottish Policy

John Rennilson (Lead)
Simon Harley
Brian Clark
Stephen Newson
Helen Peters

SG 7: Radioactive Waste Interim Storage

Janet Wilson (Lead)
Gregg Butler
Helen Peters
Francis Livens

SG 8: Spent Fuel and Nuclear Materials

Gregg Butler (Lead)
Janet Wilson
Helen Peters
Francis Livens