



**Committee on Radioactive Waste Management
CoRWM Doc. 3632**

PROPOSED PROGRAMME OF WORK

2020

Table of Contents

1. Introduction from the Chair.....	4
2. Summary.....	5
3. Background to Our Work.....	6
4. How We Work	6
CoRWM’s Funding and Time Allocation.....	8
CoRWM Stakeholders.....	8
5. Our Tasks and Focus	10
Our Work Areas for 2020-21	12
Annex A – Work Areas, Tasks and Deliverables for 2020-21	13
Annex B CoRWM Members.....	18
Annex C Subgroup Focus and Membership	23
Annex D Glossary of Terms.....	25

1. Introduction from the Chair

I am pleased to be able to present this year's Work Programme. I would like to thank the Committee for maintaining their usual high standards and exceptional work rate over the last year, especially given that for a time the Committee was short of members. Professor Gregg Butler, Stephen Newson, Dr Janet Wilson and Professor Julia West have all left the Committee after many years of exemplary service and a special thanks should be extended to them for their contribution.

The Committee has seen an influx of seven new members – Dr Claire Corkhill, Professor Penny Harvey, Professor Neil Hyatt, Professor Ray Kemp, Mark Kirkbride, Derek Lacey, Professor Gerry Thomas - and they have already proved their worth in numerous instances. They bring to the Committee a wealth of experience and a series of distinctive skills which are bound to hold it in good stead.

The Committee has already made a variety of administrative and process improvements as a result of the enhanced Secretariat and this process of improvement has continued. In particular, the CoRWM Framework Document has been approved and now sits at <https://www.gov.uk/government/publications/committee-on-radioactive-waste-management-framework-document>.

A permanent Technical Secretary has been appointed.

2018/19 culminated in the launch of the new process to identify a suitable location for a geological disposal facility (GDF). Much of the next year - and the years to come - will be taken up with the national and local conversations resulting from the launch of this new process. We plan to engage widely with our various stakeholders on this and other matters, reflecting the contribution that they need from us. We stand ready to give impartial advice as requested. We will endeavour to provide valuable and accessible indications of our assessments and positions, using our website as well as social media and our various meetings and reports in order to communicate all of our work as fully as possible. Position papers will continue to be published.

This coming year is one where the focus on moving forward with the siting process for a GDF is now very apparent and will continue to take up a large amount of our work effort. But there are many other aspects of radioactive waste management that will also claim our attention such as proposals for near surface disposal and deep borehole disposal, the updating of the decommissioning and radioactive substances policy, the further development of the National Policy Statement, and the implications of COVID-19 for progress on all of these fronts. CoRWM will continue to scrutinise and advise as best as it is able, seeking to ensure appropriate outcomes for decision makers, the delivery body, and communities.



Sir Nigel Thrift

Chair, Committee on Radioactive Waste Management

2. Summary

1. The Committee on Radioactive Waste Management (CoRWM) is an advisory Non-Departmental Public Body, with a remit to provide independent scrutiny and advice on the long-term management of radioactive waste. The Committee normally consists of a Chair and 11 experts from various fields related to radioactive waste management.
2. CoRWM reports to Ministers in the Department for Business, Energy and Industrial Strategy (BEIS) as well as the Scottish Government (SG), the Welsh Government (WG) and the Department of Agriculture, Environment and Rural Affairs (DAERA) in Northern Ireland. These organisations are known collectively as CoRWM's Sponsors.
3. This Work Programme sets out CoRWM's work plans for the next two years, how the Committee is financed and the areas in which CoRWM plans to undertake work. CoRWM updates this document annually. It is then agreed by Sponsors and published on CoRWM's website.
4. The Work Programme also describes: the Committee's background and remit; its methods of working and enablers; and its priorities and proposed deliverables for 2020 to 2022.
5. CoRWM's financial and working year begins on 1st April and ends on 31st March.
6. On 19 December 2018, the GDF siting process was launched in England by BEIS. The Welsh Government launched a parallel process in Wales on 16 January 2019. Much of the Committee's work early in this year will continue to focus on activities related to the early part of the siting process', especially: ensuring the underlying need case for GDF continues to be well articulated and accepted, evaluation of the alternatives for different waste streams, and supporting the establishment of working groups and community partnerships'.
7. The Committee also has a remit to advise more broadly on radioactive waste management issues, which includes scrutinising the storage, characterisation and classification of radioactive waste; advising the Scottish Government on policy for near-surface near-site waste management; management for spent fuel and other nuclear materials, and assessing the NDA's and RWM's strategies, programmes and processes.
8. The current membership of CoRWM is given in Annex B.

3. Background to Our Work

9. CoRWM was set up in 2003 as part of the 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, accepting most of CoRWM's recommendations. CoRWM's principal recommendation described geological disposal as the best available approach to the long-term management of HAW, and recommended progress as soon as practicable.
10. In October 2007, CoRWM was reconstituted, with revised Terms of Reference and expertise, to provide independent scrutiny and advice to UK Government and the Devolved Administrations on the long-term management, including storage and disposal, of radioactive waste.
11. CoRWM also advises the Devolved Administrations of Scotland, Northern Ireland, and Wales on their policies, including where they differ from that of the UK Government, for example the Scottish Government policy of near-site near-surface waste management.
12. CoRWM's current Framework document is deposited in the House of Commons Library ¹.
13. Though CoRWM's membership and remit have changed over the years, CoRWM members continue to conclude unanimously that geological disposal is the best available approach to safely dispose of the UK's higher activity radioactive waste and prevent it from becoming a financial and environmental burden to future generations.

4. How We Work

14. The Committee formulates its key advice and takes decisions by consensus in plenary session. It normally holds four open plenary meetings each year that the public can attend. The Committee also holds closed plenary meetings to take evidence and enable discussions with officials.
15. The Committee provides its advice through a variety of methods. Members' views on some issues may be communicated in person or as commentary on documents. More complex issues will often require the consensus of the Committee through discussion at plenary meetings and may be presented in a formal letter, report, or recommendation and issues regular papers.

¹ <https://www.parliament.uk/depositedpapers#toggle-1100>

16. CoRWM Doc. 3394 sets out a new system of categorising CoRWM advice. It describes how *CoRWM Papers* and *CoRWM Recommendations* always constitute a consensus committee view, where *CoRWM Advice Notes* always constitute the view of a subgroup unless clearly stated otherwise. Other advice, such as that contained in meeting minutes, emails, and commentary on documents is to be considered the individual view of members unless stated otherwise. This latter, less formal advice is collectively categorised as *CoRWM Comments*.

Table 1: Categories of CoRWM Advice

Category	Examples	Default level of consensus required
"Recommendation" ²		Consensus view of committee.
Report	Consultation response, technical report, position paper	Consensus view of committee.
Note	Advice note, meeting note, summary note	Consensus view of subgroup unless stated otherwise.
Comments	Document comments, emails, meeting minutes	Member's individual views unless stated otherwise.

17. Much of the work of the Committee is carried out by subgroups. Each subgroup focuses on an area of interest or aspect of a programme, and contains members with relevant knowledge, skills and experience. The membership and focus of these subgroups is given in Annex C.

18. The Chairs of the subgroups are responsible for preparing work plans to meet the requirements set out in this work programme. Subgroup chairs must also ensure the work of the subgroup is reported to the Committee in order for the Committee to formulate its advice.

² Potentially formalised in the Annual Report or presented to Sponsors for their consideration.

CoRWM's Funding and Time Allocation

Table 2: CoRWM budget estimates 2020-21³. (This is an indicative budget subject to annual budget settlement)

Item	Budget (£) 2020-2021
Members' Fees Accommodation, Travel, Subsistence, Visits	275000
Administration, Recruitment and Secretariat	45
TOTAL	320000

Table 3: CoRWM members time allocations for 2020-21 by role

CoRWM Role	Indicative time allocation for role (days)	Number of Members in role	Total indicative time allocation for role (days)
Chair	70	1	70
Deputy Chair	45	1	45
Subgroup Chair	30	6	180
Member	30	4	120
All CoRWM Roles		12 ⁴	415

CoRWM Stakeholders

19. CoRWM engages with a wide variety of stakeholders to ensure CoRWM members have up-to-date information and access to a broad range of views in radioactive waste management.

20. In developing this work programme, the Committee consulted the following groups for their feedback:

³ These figures are indicative and the actual financial allocation will depend on future spending settlements and that this will impact on the work programme.

⁴ The actual number of members may vary due to membership changes.

- BEIS
- Scottish Government
- Welsh Government
- Department of Agriculture, Environment and Rural Affairs (DAERA)
- Nuclear Decommissioning Authority (NDA)
- Radioactive Waste Management Limited (RWM)
- Office for Nuclear Regulation (ONR)
- Environment Agency (EA)
- Natural Resources Wales (NRW)
- Scottish Environment Protection Agency (SEPA)

The proposed indicative 2020-21 work programme reflects the comments that were received.

5. Our Tasks and Focus

Our Work Areas for 2020-2021

21. Much of CoRWM's work will be focused on activities related to the process for seeking a suitable location for a GDF that was launched in December 2018 in England and in Wales in January 2019. CoRWM will continue to scrutinise and advise on the documentation, technical information, policy, and plans supporting RWM and the UK and Welsh Governments' community engagement and siting process.
22. Further work will focus on advice to the Scottish Government on their near-surface near-site waste management policy.
23. The Committee has not allocated a specific task regarding Northern Ireland activities as it has no nuclear or radioactive waste disposal facilities but can provide advice to NI Departments if requested
24. In the wider radioactive waste management landscape, CoRWM will be reviewing the NDA's assumptions and strategy for managing the UK waste inventory, including its feasibility studies on near surface disposal and any further work on borehole disposal.
25. The scope of this indicative work programme is built on the assumption that current levels of Secretariat support will continue to be in place. The Committee is currently supported by both a Committee Secretary and a Technical Secretary within BEIS.
26. CoRWM Work Areas for the coming work year are as follows:
 - 1: Scrutiny of and advice to BEIS, the Welsh Government and RWM on activities related to the GDF siting process and implementation of policy.
 - 2: Scrutiny of and advice to BEIS, the Welsh Government and RWM on technical site evaluation.
 - 3: Scrutiny of and advice to BEIS on developing regulation to give the Office for Nuclear Regulation the powers to licence a GDF.
 - 4: Scrutiny of and advice to Scottish Government on the management of radioactive waste in Scotland.
 - 5: Scrutiny of and advice to the Welsh Government on the management of radioactive waste in Wales.

6: Scrutiny and advice to BEIS and NDA on the storage of radioactive waste, spent fuel and nuclear materials that may be destined for disposal in a GDF.

7: Scrutiny of and advice to BEIS, Scottish Government and NDA on the UK's waste strategies.

8: Responsive advice, and other miscellaneous work, providing scrutiny and advice to stakeholders in wider waste management areas.

9: Responsive advice to BEIS on proposals to look at radioactive waste aspects of the Government's review of Nuclear Decommissioning and Radioactive Substances Policy.

10: Outreach activities, including advice to communities engaged in the GDF siting process and public talks.

11: Committee management, which includes the development of consensus views in plenary meetings.

Table 4: Time allocation for Work Areas 2020-21 ⁵

Work Area	Work Area description	Subgroup	Indicative allocation of days ⁶
1	GDF process and policy implementation	1	45
2	Site Evaluation	2	30
3	Regulation to give ONR licensing powers for GDF	3	30
4	Scottish Government Activities	4	30
5	Welsh Government Activities	5	30
6	Storage of waste, spent fuel, and nuclear materials	6	30
7	Issues arising from the radioactive waste aspects of the Government's review of Nuclear Decommissioning and Radioactive Substances Policy	All	30
8	Scrutiny of waste strategies	7	50
9	Responsive work	All	40
10	Outreach	All	40
11	Committee management	Chair and Deputy Chair	60
Total			415

⁵ Resource deployment will be an ongoing task.

⁶ Allocation of days per Work Area is only indicative and is subject to review throughout the year.

Our Work Areas for 2020-21. For further details see Annex A.

For planning purposes this allocation is scaled across the one year. CoRWM's work will cover many of the same broad areas as in 2019/20 but within these areas new topics have been taken up, such as borehole disposal and the NDA's feasibility study on near surface disposal. Tasks will be refined in future Work Programme updates according to the requirements of the GDF Programme, waste management policy, etc.

- **Scrutiny and provision of advice to BEIS, Welsh Government and RWM on activities related to community engagement in respect of the siting process for a GDF.**
- **Scrutiny and provision of advice to BEIS, Welsh Government and RWM on activities relating to the continued development of a GDF safety case and regulation more generally.**
- **Scrutiny and provision of advice to BEIS, Welsh Government and RWM on GDF siting activities, including siting factors, methods of investigation, and the timescale for carrying out site selection in the three rock types.**
- **Scrutiny and provision of advice to the Scottish Government on the management of radioactive waste in Scotland.**
- **Scrutiny and provision of advice to the Welsh Government on the management of radioactive waste in Wales.**
- **Scrutiny and provision of advice to BEIS and NDA on the storage of radioactive waste, spent fuel and nuclear materials that may be destined for disposal in a GDF.**
- **Scrutiny and provision of advice to BEIS and NDA on options for near surface disposal.**
- **CoRWM outreach activities including being available to Communities that are active in the GDF siting process and the Chair's engagement with international counterpart organisations to share and learn from experience.**
- **Work on the annual report, quarterly reports and work programme.**

Annex A – Work Areas, Tasks and Deliverables for 2020-21

27. Table 5 provides a description of each proposed Work Area for 2020-21, together with Tasks and indicative deliverables or records, the task priority and the planned resource allocation.
28. CoRWM will produce a number of deliverables in the form of informal summary notes for Government following meetings. Currently, this is the preferred approach to delivering advice due to the need for timeliness and flexibility. CoRWM will endeavour to publish all of its reports. CoRWM will also produce an Annual Report for 2019-20 for publication in July 2020 and will also produce quarterly updates.

Table 5: Proposed work areas, tasks and indicative deliverables for 2020-21

Work Area	Task and Deliverable
1. To scrutinise and advise BEIS, Welsh Government, NDA and RWM on communication strategy and on activities related to the implementation of Working With Communities (WWC) policy and related GDF and engagement documents.	1A To scrutinise and advise on the integrated communication strategy of BEIS, NDA and RWM <i>To report to the main CoRWM Committee to enable the development of advice to Ministers, NDA and RWM.</i>
	1B To scrutinise and advise BEIS, NDA and RWM on communication of activities related to the GDF siting process and implementation of policy.
	1C To scrutinise and advise BEIS, NDA and RWM on the implementation of the Working with Communities Policy
	1D To scrutinise and advise the Welsh Government on the implementation of the Welsh Working with Communities Policy

	<p>1E To engage and provide advice and information as requested to interested parties, Working Groups and Community Partnerships. To act as a source of independent information to communities if approached.</p> <p><i>1D and 1E should be done in cooperation with the Welsh subgroup.</i></p>
<p>2. Scrutiny of and advice to BEIS and RWM on technical site evaluation and plans for site investigation and characterisation.</p>	<p>2A Scrutiny and provision of advice to BEIS and RWM on GDF siting activities, including siting factors, methods of investigation, and the timescale for carrying out site selection in the three rock types. This will include the scrutiny of RWM’s application of their Site Evaluation factors and preparations for development of a GDF and examination of where the GDF programme might be progressed faster in future;</p> <p>2B Watching brief on new technologies that could be applicable to the development of a GDF including those in the mining and construction sectors and their potential impacts on a GDF programme. This will include continued examination of the possible role of borehole disposal for parts of the UKs radioactive waste inventory and the implications of any adjustments in the inventory;</p> <p>2C Watching brief on RWM on any activities that may have implications for a GDF safety case.</p>
<p>3. Scrutiny of and advice to BEIS and RWM on activities related to GDF (Geological Disposal Facility) licensing and the IGD (Implementing Geological Disposal) workstream on planning</p>	<p>3A Renew lines of contact with ONR and EA and NRW as regulators of a GDF in England or Wales, with a view to regular meetings to discuss regulatory issues arising during the GDF siting process. These to include: prescription of GDF for nuclear site licensing purposes; how the licensing (and ultimately de-licensing) and staged environmental permitting processes will work and will interact; the role of regulators in the working with communities process; regulators’ examination of RWM’s safety, security and environmental safety cases as they develop; examining regulators’ appreciation of the challenges and risks associated with the licensing process.</p> <p>3B Meet and discuss with RWM what they see as the main regulatory challenges and risks, and their “risk appetite” and preparedness (noting the acknowledgement of legal/regulator risk in the Annual report and Accounts 2019-2020). Work towards publication of a comprehensive and definitive CoRWM Position Paper on regulation of a GDF during 2020.</p>

	<p>3C Review and advise on the draft planning guidance “Planning Guidance for on-site radioactive waste management options on nuclear and decommissioned nuclear sites – England”</p>
	<p>3D Keep under review the implications of the proposals, to update decommissioning and radioactive substances policy, and provide advice as necessary</p>
	<p>3E Keep under review any further implications of the UK’s exit from the EU as this develops and provide advice to BEIS and DAs.</p>
<p>4. Scrutiny of and advice to the Scottish Government (SG) on the management of radioactive waste in Scotland.</p>	<p>4A Advice on and scrutiny of progress with implementation of the Scottish Government’s 2016 Implementation Strategy for its 2011 HAW policy</p> <p><i>Includes former elements of 4B in relation to ILW/HAW and relevant NSS/NSD management policy.</i></p>
	<p>4B Specific Policy advice support</p> <p><i>Any further inputs re the post-BREXIT context and advice and scrutiny on Art35/37 issues and IAEA/UK/Scotland/ONR/SEPA arrangements.</i></p> <p><i>Could include guidance on the requirements for release from radioactive substances regulation’ (also known as GRR) and “end of licensing” type policy discussion.</i></p> <p><i>Also any relevant inputs to NDA and operator developments, e.g. re Magnox and Dounreay site issues.</i></p> <p><i>Provide feedback and informal advice by means of a written report.</i></p>
	<p>4C General issues and advice.</p> <p>Including research, stakeholder engagement and substitution. Represent Committee in Scottish processes and meetings, including Site Stakeholder and SG’s Scottish Nuclear Site (SNS) national meetings and engage with relevant partner bodies in Scotland.</p> <p><i>Part of first element from previous programme – repatriation etc. – may now be complete subject to SG confirmation.</i></p>
	<p>4D Input on “Scotland’s higher-activity radioactive waste policy - 10 Year review (2020)”. The team will begin preparations for reviewing the Scottish HAW policy, with a view to publishing an update in 2021.</p>
	<p>4E Input on any UK wide policy issues concerning any Scottish-specific aspects subject to SG locus.</p>

	<p>4F Explore specific issues that relate to Scotland/Scottish Government policy in the NDA Strategy IV. CoRWM as a whole will likely be involved in the formation of the new strategy.</p>
<p>5. Welsh Government (WG) activities</p>	<p>5A Scrutiny of and advice to the Welsh Government (WG) on the management of radioactive waste in Wales.</p> <p><i>Task and Finish Group set up by Prof Robin Grimes, on behalf of the Royal Society, to advise WG on nuclear issues, that Prof Bill Lee chairs.</i></p> <p><i>Contact Prof Grimes and Lee to gain a better insight into these proposals, particularly with respect to the siting of SMRs at Trawsfynydd, and to better understand any waste issues that might arise.</i></p>
<p>6. Scrutiny of and advice to BEIS, and NDA on the storage of radioactive waste, spent fuel and nuclear materials that may be destined for disposal, of potential changes in waste classification, and in development of alternative disposal methods including Near Surface Disposal for some wastes and some suitable nuclear materials declared as waste.</p>	<p>6A Work Programme for a study of how near-surface disposal could be complementary to a GDF.</p> <p><i>This task is a clearly within the scope of the Task & Finish Group and should be reassigned to that group to lead delivery.</i></p>
	<p>6B Ongoing scrutiny of end of the Magnox reprocessing programme, and of storage and potential disposal of spent fuel, uranics and plutonium.</p> <p><i>This task is within the scope boundaries of SG6 and should be retained.</i></p>
	<p>6C Monitoring and providing advice on NDA Integrated waste management developments including boundary, difficult wastes in Scotland and strategic direction.</p> <p><i>This task addresses some of the scope of the Task & Finish Group scope.</i></p> <p><i>This task will also include the Oversight Group looking into the siting process for SMRs.</i></p>
<p>7. Task and finish</p>	<p>7A Issues arising in relation to proposals to look at radioactive waste aspects of the Government's review of Nuclear Decommissioning and Radioactive Substances Policy</p>

* Each member (12 total according to the Framework Document), for each of 4 plenary meetings, will prepare and review material for half a day, and attend two days of meetings.

Annex B CoRWM Members



Chair

Sir Nigel Thrift was appointed Chair of the Committee on Radioactive Waste Management on 2 July 2018.

Until 2017, Sir Nigel was the Executive Director of Schwarzman Scholars. He is one of the world's leading human geographers and previously served as Vice-Chancellor and President of the University of Warwick and as Pro-Vice-Chancellor for Research at the University of Oxford. He is a Fellow of the British Academy and a Visiting Professor at Oxford University and Tsinghua University. He is a Deputy Lord Lieutenant of the West Midlands.

Current term of office ends: **July 2022**



Deputy Chair

Campbell Gemmell is a Partner in Canopus Scotland Consulting, working largely on environment policy and regulation issues in the EU, Australia and China.

Campbell chaired the review of Scotland's Air Quality Strategy for Scottish Government November 2018-June 2019, which reported in August. He produced the recent report on post-Brexit environmental governance options for Scottish Environment LINK, where he is an Honorary Fellow and has also been working on the development of an Environment Rights Centre for Scotland. Campbell has been a consultant with the World Bank Group and expert advisor on the Organization for Economic Cooperation and Development's regulatory reform programme. He is Visiting Professor at Strathclyde University Law School, Honorary Professor of Environment Research, Policy, Regulation and Governance in the University of Glasgow and Adjunct Professor in the Future Industries Institute at UniSA, Adelaide. Professor Gemmell is former Chief Executive Officer of the South Australian EPA (2012-14) and was CEO of SEPA (2003-12), with, in Scotland, responsibility for environmental regulation of the civil nuclear programme and relevant wastes from Scottish sites. He was closely involved in assessing and tackling the Dounreay particles legacy and related issues in other locations in Scotland. He was a member and Chair of the Dounreay Particles Advisory Group 2001-11. Campbell also chaired the South Australian State Radiation Protection Committee 2012-14.

Campbell has a Ph.D in glaciology and is also a certificated mediator.

Current term of office ends: **November 2020**



Claire Corkhill was appointed to the Committee on Radioactive Waste Management (CoRWM) in January 2020.

Claire is currently a Reader and EPSRC Early Career Research Fellow at the University of Sheffield. With an academic background in both geology and materials science, she has over 10 years of experience in researching nuclear waste material corrosion in geological environments. She has held research fellowships in both the UK and Japan and leads a team of 12 researchers focused on determining the long-term behaviour of radioactive materials. Claire is an enthusiastic science communicator and has made numerous media appearances in relation to nuclear waste disposal and nuclear decommissioning.

Current term of office ends: **January 2024**



Penny Harvey is Professor of Social Anthropology at the University of Manchester. She is a Fellow of the Academy of Social Sciences (UK), and an elected member of the Norwegian Academy of Science and Letters. Penny has an extensive history of research on the social transformations of large-scale infrastructure projects, with a particular focus on the relationship between local communities, government agencies and corporate bodies.

Current term of office ends: **November 2023**



Neil Hyatt was appointed to the Committee on Radioactive Waste Management in November 2019.

Neil is a Professor of Nuclear Materials Chemistry at the University of Sheffield and Head of Department of Materials Science & Engineering at the University of Sheffield. Neil was made a Fellow of the Royal Society of Chemistry in 2015. Neil has more than 15 years of professional and academic research in radioactive waste management and disposal. Neil was appointed to the Committee on Radioactive Waste Management for 4 years.

Current term of office ends: **November 2023**



Ray Kemp was appointed to the Committee on Radioactive Waste Management in November 2019.

Ray has been a Member of the Advisory Committee on Carcinogenicity of Chemicals in Foods, Consumer Products and the Environment (COC) Public Interest Representative at the UK Department of Health and Social Care from 2013. In the past, he has worked as an adviser to the Independent Advisory Panel (IAP) for the Australian National Radioactive Waste Management Facility Project. He has also worked as a Member, then Chair of the Radiation Health and Safety Advisory Council of the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA) between 2012 and 2015.

Current term of office ends: **November 2023**



Mark Kirkbride was appointed to the Committee on Radioactive Waste Management in November 2019.

Mark has been the Chief Executive Officer of West Cumbria Mining Ltd since 2014, having previously worked in a wide range of senior roles in the mining, engineering and construction industries. Mark is a Fellow of the Institute of Materials, Minerals and Mining, a Chartered Engineer and holds a degree in mining engineering and a research masters in geomechanics (machine rock cutting). He has more than 25 years' experience of underground construction techniques and project delivery.

Current term of office ends: **November 2023**



Derek Lacey was appointed to the Committee on Radioactive Waste Management in November 2019.

Derek has recently completed a term as a Director at the International Atomic Energy Agency. He previously had roles as Deputy Chief Inspector in the Office for Nuclear Regulation (ONR) and Head of Nuclear and Radioactive Waste Management Policy at the UK Department for Energy and Climate Change.

Current term of office ends: **November 2023**



Richard Shaw is an exploration and mining geologist (C. Geol; Eur. Geol) with over 25 years of experience in the deep geological disposal of radioactive waste. He retired from the British Geological Survey in October 2016.

Previous experience includes 7 years of exploration, environmental impact assessment and mining feasibility for a uranium deposit in Africa. He was Team Leader of the BGS's Radioactive Waste Team until April 2016 with responsibility for all work, both internally funded and commissioned that the BGS undertook in the radioactive waste disposal sector.

He has considerable experience of the Nirex site investigation programmes and relevant experience of other European programmes, in particular those of France and Sweden, and has undertaken work for Andra, Ondraf-Niras, SKB, Covra, and JAEA as well as RWM. He was Co-ordinator (2009-2013) of the EC FP7 Euratom FORGE (Fate of Repository Gases) Project. This pan-European (24 partners in 12 countries) was looking at the generation, migration and fate of gases in a radwaste repository context.

Current term of office ends: **November 2020**



Geraldine Thomas was appointed to the Committee on Radioactive Waste Management in November 2019.

Geraldine Thomas is currently a Professor of Molecular Pathology at Imperial College and Director of Chernobyl Tissue Bank. In the past, she has been a Clinical Director of the West London Genome Medicine Centre and Professor of Molecular Oncology at the South Wales Cancer Institute.

Current term of office ends: **November 2023**



Stephen Tromans QC is a barrister practising at 39 Essex Chambers, London.

He was Joint Head of Chambers from 2011-2015. He was worked as an academic at Cambridge (1981-1987) and as a solicitor (1987-1999). He became a barrister in 1999 and was appointed Queen's Counsel in 2009.

His area of specialism is environmental, energy natural resources and planning law. He has extensive experience of advising companies and government and representing them in court and at public inquiries. He has a particular focus on nuclear law and is the author of the leading text, "Nuclear Law". He is also the author of leading works on environmental impact assessment and contaminated land and has spoken and written widely on these topics.

He has been a member of the UK Environmental Law Association (UKELA) since its formation in 1986, and has been Chair and a Council member of UKELA. He is also a member of the International Nuclear Law Association (INLA) and a director of INLA UK. From 1994-2002 he was a Council Member of English Nature, the predecessor of Natural England and from 2010-2014 was the Chair of the Environmental Law Foundation (ELF).

Current term of office ends: **November 2022**



Andrew Walters is an Environmental Lawyer and Chartered Town Planner.

He has worked on an extensive range of project and policy work in the public and private sectors with a career stretching across 20 years in the UK and overseas. He has developed a reputation for delivery of complex environmental consents on a diverse range of infrastructure projects from the construction of deep water ports and harbours, nationally significant rail, highways, bridges, energy, waste and commercial development projects.

Andrew's regularly leads consenting campaigns bringing a deep understanding of the challenges of consenting development projects in multiple legislative environments, often with complex engineering considerations in highly sensitive sites of significant environmental importance.

Current term of office ends **November 2020**

Annex C Subgroup Focus and Membership

Subgroup 1: Working With Communities Implementation (4 Members)

Primary tasks:

1. To scrutinise and advise on the integrated communication strategy of BEIS, NDA and RWM
2. To scrutinise and advise BEIS, NDA and RWM on communication of activities related to the GDF process and implementation of policy.
3. To scrutinise and advise BEIS, NDA and RWM on the implementation of the Working with Communities Policy
4. To scrutinise and advise the Welsh Government on the implementation of the Welsh Working with Communities Policy
5. To engage and provide advice and information as requested to interested parties, Working Groups and Community Partnerships.

Subgroup 2: GDF Geology and Delivery (4 Members)

Primary tasks:

1. Scrutiny and provision of advice to BEIS and RWM on activities relating to the continued development of a GDF safety case
2. Scrutiny and provision of advice to BEIS and RWM on GDF siting activities, including siting factors, methods of investigation, and the timescale for carrying out site selection in the three rock types.
3. Advise on new technologies that could be applicable to the development of a GDF including those in the mining and construction sectors and their potential impacts on a GDF programme.

Subgroup 3: Planning and Regulation (4 Members)

Primary Tasks:

1. Work towards publication of a comprehensive and definitive CoRWM Position Paper on regulation of a GDF during 2020
2. Review and advise on the draft Planning Guidance for on-site radioactive waste management options on nuclear and decommissioned nuclear sites - England
3. Keep under review any further implications of the UK's exit from the EU as this develops and provide advice to BEIS and DAs.

Subgroup 4: Scottish Government Activities (2 Members)

Primary Tasks:

1. To scrutinise the Scottish Government's activities in relation to the management of higher activity radioactive waste (HAW) in Scotland.
2. To report to the main CoRWM Committee to enable the development of advice to Ministers, NDA and RWM.

Subgroup 5: Welsh Government Activities (2 Members)

Primary Tasks:

1. To scrutinise the Welsh Government's activities in relation to the delivery of the Implementing Geological Disposal policy in Wales.
2. To report to the main CoRWM Committee to enable the development of advice to Ministers, NDA and RWM.

Subgroup 6: Waste, Spent Fuel and Nuclear Materials Inventory Management (3 Members)

Primary Tasks:

1. Work Programme for a study of how near-surface disposal could be complementary to a GDF.
2. Ongoing scrutiny of end of the Magnox reprocessing programme, and of storage and potential disposal of spent fuel, uranics and plutonium.
3. Monitoring and providing advice on NDA Integrated waste management developments including boundary LLW/ILW wastes, difficult wastes in Scotland and strategic direction.

Subgroup 7: Task and Finish (6 members)

Primary Task:

Advice on issues arising from the proposals to update nuclear decommissioning and radioactive substances policy.

Annex D Glossary of Terms

BEIS	The Department for Business, Energy and Industrial Strategy
BGS	British Geological Survey
CoRWM	Committee on Radioactive Waste Management
DAERA	The Department of Agriculture, Environment and Rural Affairs
EA	The Environment Agency
GDF	Geological Disposal Facility
GDPB	Geological Disposal Programme Board
HAW	Higher Activity Waste
IGD	Implementing Geological Disposal
NIE	Northern Ireland Executive
NDA	Nuclear Decommissioning Authority
NGS	National Geological Screening
NPS	National Policy Statement on Geological Disposal
NRW	Natural Resources Wales
ONR	The Office for Nuclear Regulation
RWM	Radioactive Waste Management Ltd.
SG	Scottish Government
SEPA	Scottish Environment Protection Agency
WWC	Working With Communities (the policy)
WG	Welsh Government